



INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL  
TRAINING AT THE UNIVERSITY OF HELSINKI 2005–2010

# RC-Specific Evaluation of BIOSYST – Biological Systematics and Taxonomy

Seppo Saari & Antti Moilanen (Eds.)



Evaluation Panel: Biological, Agricultural and Veterinary Sciences



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**University of Helsinki  
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<b>Title:</b> International Evaluation of Research and Doctoral Training at the University of Helsinki 2005–2010 : RC-Specific Evaluation of BIOSYST – Biological Systematics and Taxonomy	<b>Type of publication:</b> Evaluations
<b>Summary:</b> Researcher Community (RC) was a new concept of the participating unit in the evaluation. Participation in the evaluation was voluntary and the RCs had to choose one of the five characteristic categories to participate. Evaluation of the Researcher Community was based on the answers to the evaluation questions. In addition a list of publications and other activities were provided by the TUHAT system. The CWTS/Leiden University conducted analyses for 80 RCs and the Helsinki University Library for 66 RCs. Panellists, 49 and two special experts in five panels evaluated all the evaluation material as a whole and discussed the feedback for RC-specific reports in the panel meetings in Helsinki. The main part of this report is consisted of the feedback which is published as such in the report. Chapters in the report: 1. Background for the evaluation 2. Evaluation feedback for the Researcher Community 3. List of publications 4. List of activities 5. Bibliometric analyses The level of the RCs' success can be concluded from the written feedback together with the numeric evaluation of four evaluation questions and the category fitness. More conclusions of the success can be drawn based on the University-level report.	
<b>RC-specific information:</b>	
<b>Main scientific field of research:</b> Biological, Agricultural and Veterinary Sciences	<b>RC-specific keywords:</b> arthropods, biogeography, bryophytes, fungi, lichen-forming fungi, molecular systematics, parallel computing, phylogeny, systematics, taxonomy, vascular plants
<b>Participation category:</b> 3. Research of the participating community is distinct from mainstream research, and the special features of the research tradition in the field must be considered in the evaluation	
<b>RC's responsible person:</b> Stenroos, Soili	
<b>Keywords:</b> Research Evaluation, Meta-evaluation, Doctoral Training, Bibliometric Analyses, Researcher Community	

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## Foreword

The evaluation of research and doctoral training is being carried out in the years 2010–2012 and will end in 2012. The steering group appointed by the Rector in January 2010 set the conditions for participating in the evaluation and prepared the Terms of Reference to present the evaluation procedure and criteria. The publications and other scientific activities included in the evaluation covered the years 2005–2010.

The participating unit in the evaluation was defined as a Researcher Community (RC). To obtain a critical mass with university-level impact, the number of members was set to range from 20 to 120. The RCs were required to contain researchers in all stages of their research career, from doctoral students to principal investigators (PIs). All in all, 136 Researcher Communities participated in this voluntary evaluation, 5857 persons in total, of whom 1131 were principal investigators. PIs were allowed to participate in two communities in certain cases, and 72 of them used this opportunity and participated in two RCs.

This evaluation enabled researchers to define RCs from the “bottom up” and across disciplines. The aim of the evaluation was not to assess individual performance but a community with shared aims and researcher-training activities. The RCs were able to choose among five different categories that characterised the status and main aims of their research. The steering group considered the process of applying to participate in the evaluation to be important, which led to the establishment of these categories. In addition, providing a service for the RCs to enable them to benchmark their research at the global level was a main goal of the evaluation.

The data for the evaluation consisted of the RCs’ answers to evaluation questions on supplied e-forms and a compilation extracted from the TUHAT – Research Information System (RIS) on 12 April 2011. The compilation covered scientific and other publications as well as certain areas of scientific activities. During the process, the RCs were asked to check the list of publications and other scientific activities and make corrections if needed. These TUHAT compilations are public and available on the evaluation project sites of each RC in the TUHAT-RIS.

In addition to the e-form and TUHAT compilation, University of Leiden (CWTS) carried out bibliometric analyses from the articles included in the Web of Science (WoS). This was done on University and RC levels. In cases where the publication forums of the RC were clearly not represented by the WoS data, the Library of the University of Helsinki conducted a separate analysis of the publications. This was done for 66 RCs representing the humanities and social sciences.

The evaluation office also carried out an enquiry targeted to the supervisors and PhD candidates about the organisation of doctoral studies at the University of Helsinki. This and other documents describing the University and the Finnish higher education system were provided to the panellists.

The panel feedback for each RC is unique and presented as an entity. The first collective evaluation reports available for the whole panel were prepared in July–August 2011. The reports were accessible to all panel members via the electronic evaluation platform in August. Scoring from 1 to 5 was used to complement written feedback in association with evaluation questions 1–4 (scientific focus and quality, doctoral training, societal impact, cooperation) and in addition to the category evaluating the fitness for participation in the evaluation. Panellists used the international level as a point of comparison in the evaluation. Scoring was not expected to go along with a preset deviation.

Each of the draft reports were discussed and dealt with by the panel in meetings in Helsinki (from 11 September to 13 September or from 18 September to 20 September 2011). In these meetings the panels also examined the deviations among the scores and finalised the draft reports together.

The current RC-specific report deals shortly with the background of the evaluation and the terms of participation. The main evaluation feedback is provided in the evaluation report, organised according to the evaluation questions. The original material provided by the RCs for the panellists has been attached to these documents.

On behalf of the evaluation steering group and office, I sincerely wish to thank you warmly for your participation in this evaluation. The effort you made in submitting the data to TUHAT-RIS is gratefully acknowledged by the University. We wish that you find this panel feedback useful in many ways. The bibliometric profiles may open a new view on your publication forums and provide a perspective for discussion on your choice of forums. We especially hope that this evaluation report will help you in setting the future goals of your research.

Johanna Björkroth  
Vice-Rector  
Chair of the Steering Group of the Evaluation

#### **Steering Group of the evaluation**

Steering group, nominated by the Rector of the University, was responsible for the planning of the evaluation and its implementation having altogether 22 meetings between February 2010 and March 2012.

#### **Chair**

Vice-Rector, professor **Johanna Björkroth**

#### **Vice-Chair**

Professor **Marja Airaksinen**

Chief Information Specialist, Dr **Maria Forsman**

Professor **Arto Mustajoki**

University Lecturer, Dr **Kirsi Pyhälä**

Director of Strategic Planning and Development, Dr **Ossi Tuomi**

Doctoral candidate, MSocSc **Jussi Vauhkonen**



# Panel members

## **CHAIR**

### **Professor Ary A. Hoffman**

Ecological genetics, evolutionary biology,  
biodiversity conservation, zoology  
University of Melbourne, Australia

## **VICE-CHAIR**

### **Professor Barbara Koch**

Forest Sciences, remote sensing  
University of Freiburg, Germany

### **Professor Per-Anders Hansson**

Agricultural engineering, modeling, life cycle  
analysis, bioenergy  
Swedish University of Agricultural Sciences

### **Professor Danny Huylebroeck**

Developmental biology  
Katholieke Universiteit Leuven, Belgium

### **Professor Jonathan King**

Virus assembly, protein folding  
Massachusetts Institute of Technology MIT, USA

### **Professor Hannu J.T. Korhonen**

Functional foods, dairy technology, milk hygiene  
MTT Agrifood Research Finland

### **Professor Kristiina Kruus**

Microbiological biotechnology, microbiological  
enzymes, applied microbiology  
VTT Technical Research Centre of Finland

### **Professor Joakim Lundeberg**

Biochemistry, biotechnology, sequencing, genomics  
KTH Royal Institute of Technology, Sweden

### **Professor Dominiek Maes**

Veterinary medicine  
Ghent University, Belgium

### **Professor Olli Saastamoinen**

Forest economics and policy  
University of Eastern Finland

### **Professor Kai Simons**

Biochemistry, molecular biology, cell biology  
Max-Planck-Institute of Molecular Cell Biology and  
Genetics, Germany

The panel, independently, evaluated all the submitted material and was responsible for the feedback of the RC-specific reports. The panel members were asked to confirm whether they had any conflict of interests with the RCs. If this was the case, the panel members disqualified themselves in discussion and report writing.

Added expertise to the evaluation was contributed by the members from the other panels and by one evaluator outside the panels.

**External Expert**  
**Professor Anders Linde**  
Oral biochemi  
Faculty of Odontology  
Göteborg University  
Sweden

#### **Experts from the Other Panels**

**Professor Caitlin Buck**, from the Panel of Natural Sciences  
**Professor Ritske Huismans**, from the Panel of Natural Sciences  
**Professor Johanna Ivaska**, from the Panel of Medicine, biomedicine and health sciences  
**Professor Lea Kauppi**, from the Panel of Natural Sciences  
**Professor Holger Stark**, from the Panel of Natural Sciences  
**Professor Peter York**, from the Panel of Medicine, biomedicine and health sciences

#### **EVALUATION OFFICE**

**Dr Seppo Saari, Doc.**, Senior Adviser in Evaluation, was responsible for the entire evaluation, its planning and implementation and acted as an Editor-in-chief of the reports.

**Dr Eeva Sievi, Doc.**, Adviser, was responsible for the registration and evaluation material compilations for the panellists. She worked in the evaluation office from August 2010 to July 2011.

**MSocSc Paula Ranne**, Planning Officer, was responsible for organising the panel meetings and all the other practical issues like agreements and fees and editing a part the RC-specific reports. She worked in the evaluation office from March 2011 to January 2012.

**Mr Antti Mollanen**, Project Secretary, was responsible for editing the reports. He worked in the evaluation office from January 2012 to April 2012.

#### **TUHAT OFFICE**

##### **Provision of the publication and other scientific activity data**

**Mrs Aija Kaitera**, Project Manager of TUHAT-RIS served the project ex officio providing the evaluation project with the updated information from TUHAT-RIS. The TUHAT office assisted in mapping the publications with CWTS/University of Leiden.

**MA Liisa Ekebon**, Assisting Officer, served in TUHAT-RIS updating the publications for the evaluation. She also assisted the UH/Library analyses.

**BA Liisa Jäppinen**, Assisting Officer, served in TUHAT-RIS updating the publications for the evaluation.

#### **HELSINKI UNIVERSITY LIBRARY**

##### **Provision of the publication analyses**

**Dr Maria Forsman**, Chief Information Specialist in the Helsinki University Library, managed with her 10 colleagues the bibliometric analyses in humanities, social sciences and in other fields of sciences where CWTS analyses were not applicable.

## **Acronyms and abbreviations applied in the report**

### **External competitive funding**

AF - Academy of Finland  
TEKES - Finnish Funding Agency for Technology and Innovation  
EU - European Union  
ERC - European Research Council  
International and national foundations  
FP7/6 etc. /Framework Programmes/Funding of European Commission

### **Evaluation marks**

Outstanding (5)  
Excellent (4)  
Very Good (3)  
Good (2)  
Sufficient (1)

### **Abbreviations of Bibliometric Indicators**

P - Number of publications  
TCS - Total number of citations  
MCS - Number of citations per publication, excluding self-citations  
PNC - Percentage of uncited publications  
MNCS - Field-normalized number of citations per publication  
MNJS - Field-normalized average journal impact  
THCP10 - Field-normalized proportion highly cited publications (top 10%)  
INT\_COV - Internal coverage, the average amount of references covered by the WoS  
WoS - Thomson Reuters Web of Science Databases

### **Participation category**

Category 1. The research of the participating community represents the international cutting edge in its field.

Category 2. The research of the participating community is of high quality, but the community in its present composition has yet to achieve strong international recognition or a clear break-through.

Category 3. The research of the participating community is distinct from mainstream research, and the special features of the research tradition in the field must be considered in the evaluation.

Category 4. The research of the participating community represents an innovative opening.

Category 5. The research of the participating community has a highly significant societal impact.

### **Research focus areas of the University of Helsinki**

Focus area 1: The basic structure, materials and natural resources of the physical world

Focus area 2: The basic structure of life

Focus area 3: The changing environment - clean water

Focus area 4: The thinking and learning human being

Focus area 5: Welfare and safety

Focus area 6: Clinical research

Focus area 7: Precise reasoning

Focus area 8: Language and culture

Focus area 9: Social justice

Focus area 10: Globalisation and social change



# 1 Introduction to the Evaluation

## 1.1 RC-specific evaluation reports

The participants in the evaluation of research and doctoral training were Researcher Communities (hereafter referred to as the RC). The RC refers to the group of researchers who registered together in the evaluation of their research and doctoral training. Preconditions in forming RCs were stated in the Guidelines for the Participating Researcher Communities. The RCs defined themselves whether their compositions should be considered well-established or new.

It is essential to emphasise that the evaluation combines both meta-evaluation<sup>1</sup> and traditional research assessment exercise and its focus is both on the research outcomes and procedures associated with research and doctoral training. The approach to the evaluation is enhancement-led where self-evaluation constituted the main information. The answers to the evaluation questions formed together with the information of publications and other scientific activities an entity that was to be reviewed as a whole.

The present evaluation recognizes and justifies the diversity of research practices and publication traditions. Traditional Research Assessment Exercises do not necessarily value high quality research with low volumes or research distinct from mainstream research. It is challenging to expose the diversity of research to fair comparison. To understand the essence of different research practices and to do justice to their diversity was one of the main challenges of the present evaluation method. Understanding the divergent starting points of the RCs demanded sensitivity from the evaluators.

## 1.2 Aims and objectives in the evaluation

The aims of the evaluation are as follows:

- to improve the level of research and doctoral training at the University of Helsinki and to raise their international profile in accordance with the University's strategic policies. The improvement of doctoral training should be compared to the University's policy.<sup>2</sup>
- to enhance the research conducted at the University by taking into account the diversity, originality, multidisciplinary nature, success and field-specificity,
- to recognize the conditions and prerequisites under which excellent, original and high-impact research is carried out,
- to offer the academic community the opportunity to receive topical and versatile international peer feedback,
- to better recognize the University's research potential.
- to exploit the University's TUHAT research information system to enable transparency of publishing activities and in the production of reliable, comparable data.

## 1.3 Evaluation method

The evaluation can be considered as an enhancement-led evaluation. Instead of ranking, the main aim is to provide useful information for the enhancement of research and doctoral training of the participating RCs. The comparison should take into account each field of science and acknowledge their special character.

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<sup>1</sup> The panellists did not read research reports or abstracts but instead, they evaluated answers to the evaluation questions, tables and compilations of publications, other scientific activities, bibliometrics or comparable analyses.

<sup>2</sup> [Policies on doctoral degrees and other postgraduate degrees at the University of Helsinki.](#)

The comparison produced information about the present status and factors that have led to success. Also challenges in the operations and outcomes were recognized.

The evaluation approach has been designed to recognize better the significance and specific nature of researcher communities and research areas in the multidisciplinary top-level university. Furthermore, one of the aims of the evaluation is to bring to light those evaluation aspects that differ from the prevalent ones. Thus the views of various fields of research can be described and research arising from various starting points understood better. The doctoral training is integrated into the evaluation as a natural component related to research. Operational processes of doctoral training are being examined in the evaluation.

**Five stages of the evaluation method were:**

1. Registration – Stage 1
2. Self-evaluation – Stage 2
3. TUHAT<sup>3</sup> compilations on publications and other scientific activities<sup>4</sup>
4. External evaluation
5. Public reporting

## 1.4 Implementation of the external evaluation

### Five Evaluation Panels

Five evaluation panels consisted of independent, renowned and highly respected experts. The main domains of the panels are:

1. biological, agricultural and veterinary sciences
2. medicine, biomedicine and health sciences
3. natural sciences
4. humanities
5. social sciences

The University invited 10 renowned scientists to act as chairs or vice-chairs of the five panels based on the suggestions of faculties and independent institutes. Besides leading the work of the panel, an additional role of the chairs was to discuss with other panel chairs in order to adopt a broadly similar approach. The panel chairs and vice-chairs had a pre-meeting on 27 May 2011 in Amsterdam.

The panel compositions were nominated by the Rector of the University 27 April 2011. The participating RCs suggested the panel members. The total number of panel members was 50. The reason for a smaller number of panellists as compared to the previous evaluations was the character of the evaluation as a meta-evaluation. The panellists did not read research reports or abstracts but instead, they evaluated answers to the evaluation questions, tables and compilations of publications, other scientific activities, bibliometrics and comparable analyses.

The panel meetings were held in Helsinki:

- On 11–13 September 2011: (1) biological, agricultural and veterinary sciences, (2) medicine, biomedicine and health sciences and (3) natural sciences.
- On 18–20 September 2011: (4) humanities and (5) social sciences.

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<sup>3</sup> TUHAT (acronym) of Research Information System (RIS) of the University of Helsinki

<sup>4</sup> Supervision of thesis, prizes and awards, editorial work and peer reviews, participation in committees, boards and networks and public appearances.

## 1.5 Evaluation material

The main material in the evaluation was the RCs' self-evaluations that were qualitative in character and allowed the RCs to choose what was important to mention or emphasise and what was left unmentioned.

The present evaluation is exceptional at least in the Finnish context because it is based on both the evaluation documentation (self-evaluation questions, publications and other scientific activities) and the bibliometric reports. All documents were delivered to the panellists for examination.

Traditional bibliometrics can be reasonably done mainly in medicine, biosciences and natural sciences when using the Web of Science database, for example. Bibliometrics, provided by CWTS/The Centre for Science and Technology Studies, University of Leiden, cover only the publications that include WoS identification in the TUHAT-RIS.

Traditional bibliometrics are seldom relevant in humanities and social sciences because the international comparable databases do not store every type of high quality research publications, such as books and monographs and scientific journals in other languages than English. The Helsinki University Library has done analysis to the RCs, if their publications were not well represented in the Web of Science databases (RCs should have at least 50 publications and internal coverage of publications more than 40%) – it meant 58 RCs. The bibliometric material for the evaluation panels was available in June 2011. The RC-specific bibliometric reports are attached at the end of each report.

The panels were provided with the evaluation material and all other necessary background information, such as the basic information about the University of Helsinki and the Finnish higher education system.

### Evaluation material

1. Registration documents of the RCs for the background information
2. Self evaluation material – answers to the evaluation questions
3. Publications and other scientific activities based on the TUHAT RIS:
  - 3.1. statistics of publications
  - 3.2. list of publications
  - 3.3. statistics of other scientific activities
  - 3.4. list of other scientific activities
4. Bibliometrics and comparable analyses:
  - 4.1. Analyses of publications based on the verification of TUHAT-RIS publications with the Web of Science publications (CWTS/University of Leiden)
  - 4.2. Publication statistics analysed by the Helsinki University Library - mainly for humanities and social sciences
5. University level survey on doctoral training (August 2011)
6. University level analysis on publications 2005–2010 (August 2011) provided by CWTS/University of Leiden

### Background material

University of Helsinki

- [Basic information about the University of the Helsinki](#)
- [The structure of doctoral training at the University of Helsinki](#)
- Previous evaluations of research at the University of Helsinki – links to the reports: [1998](#) and [2005](#)

The Finnish Universities/Research Institutes

- [Finnish University system](#)
- [Evaluation of the Finnish National Innovation System](#)
- [The State and Quality of Scientific Research in Finland. Publication of the Academy of Finland 9/09.](#)

The evaluation panels were provided also with other relevant material on request before the meetings in Helsinki.

## 1.6 Evaluation questions and material

The participating RCs answered the following evaluation questions which are presented according to the evaluation form. In addition, TUHAT RIS was used to provide the **additional material** as explained. For giving the feedback to the RCs, the panellists received the evaluation feedback form constructed in line with the evaluation questions:

### 1. Focus and quality of the RC's research

- Description of
  - the RC's research focus.
  - the quality of the RC's research (incl. key research questions and results)
  - the scientific significance of the RC's research in the research field(s)
- Identification of the ways to strengthen the focus and improve the quality of the RC's research

The additional material: TUHAT compilation of the RC's publications, analysis of the RC's publications data (provided by University of Leiden and the Helsinki University Library)

A written feedback from the aspects of: scientific quality, scientific significance, societal impact, innovativeness

- Strengths
- Areas of development
- Other remarks
- Recommendations

Numeric evaluation: OUTSTANDING (5), EXCELLENT (4), VERY GOOD (3), GOOD (2), SUFFICIENT (1)

### 2. Practises and quality of doctoral training

- Organising of the doctoral training in the RC. Description of the RC's principles for:
  - recruitment and selection of doctoral candidates
  - supervision of doctoral candidates
  - collaboration with faculties, departments/institutes, and potential graduate schools/doctoral programmes
  - good practises and quality assurance in doctoral training
  - assuring of good career perspectives for the doctoral candidates/fresh doctorates
- Identification of the RC's strengths and challenges related to the practises and quality of doctoral training, and the actions planned for their development.

The additional material: TUHAT compilation of the RC's other scientific activities/supervision of doctoral dissertations

A written feedback from the aspects of: processes and good practices related to leadership and management

- Strengths
- Areas of development
- Other remarks
- Recommendations

Numeric evaluation: OUTSTANDING (5), EXCELLENT (4), VERY GOOD (3), GOOD (2), SUFFICIENT (1)

### 3. The societal impact of research and doctoral training

- Description on how the RC interacts with and contributes to the society (collaboration with public, private and/or 3rd sector).
- Identification of the ways to strengthen the societal impact of the RC's research and doctoral training.

The additional material: TUHAT compilation of the RC's other scientific activities.

A written feedback from the aspects of: societal impact, national and international collaboration, innovativeness

- Strengths
- Areas of development
- Other remarks
- Recommendations

Numeric evaluation: OUTSTANDING (5), EXCELLENT (4), VERY GOOD (3), GOOD (2), SUFFICIENT (1)



#### **4. International and national (incl. intersectoral) research collaboration and researcher mobility**

- Description of
  - the RC's research collaborations and joint doctoral training activities
  - how the RC has promoted researcher mobility
- Identification of the RC's strengths and challenges related to research collaboration and researcher mobility, and the actions planned for their development.

A written feedback from the aspects of: scientific quality, national and international collaboration

- Strengths
- Areas of development
- Other remarks
- Recommendations

Numeric evaluation: OUTSTANDING (5), EXCELLENT (4), VERY GOOD (3), GOOD (2), SUFFICIENT (1)

#### **5. Operational conditions**

- Description of the operational conditions in the RC's research environment (e.g. research infrastructure, balance between research and teaching duties).
- Identification of the RC's strengths and challenges related to operational conditions, and the actions planned for their development.

A written feedback from the aspects of: processes and good practices related to leadership and management

- Strengths
- Areas of development
- Other remarks
- Recommendations

#### **6. Leadership and management in the researcher community**

- Description of
  - the execution and processes of leadership in the RC
  - how the management-related responsibilities and roles are distributed in the RC
  - how the leadership- and management-related processes support
    - high quality research
    - collaboration between principal investigators and other researchers in the RC
    - the RC's research focus
    - strengthening of the RC's know-how
- Identification of the RC's strengths and challenges related to leadership and management, and the actions planned for developing the processes

#### **7. External competitive funding of the RC**

- The RCs were asked to provide information of such external competitive funding, where:
  - the funding decisions have been made during 1.1.2005-31.12.2010, and
  - the administrator of the funding is/has been the University of Helsinki
- On the e-form the RCs were asked to provide:
  - 1) The relevant funding source(s) from a given list (Academy of Finland/Research Council, TEKES/The Finnish Funding Agency for Technology and Innovation , EU, ERC, foundations, other national funding organisations, other international funding organisations), and
  - 2) The total sum of funding which the organisation in question had decided to allocate to the RCs members during 1.1.2005-31.12.2010.

Competitive funding reported in the text is also to be considered when evaluating this point.

A written feedback from the aspects of: scientific quality, scientific significance, societal impact, innovativeness, future significance

- Strengths
- Areas of development
- Other remarks
- Recommendations

#### **8. The RC's strategic action plan for 2011-2013**

- RC's description of their future perspectives in relation to research and doctoral training.

A written feedback from the aspects of: scientific quality, scientific significance, societal impact, processes and good practices related to leadership and management, national and international collaboration, innovativeness, future significance

- Strengths
- Areas of development

- Other remarks
- Recommendations

### **9. Evaluation of the category of the RC in the context of entity of the evaluation material (1-8)**

The RC's fitness to the chosen participation category

A written feedback evaluating the RC's fitness to the chosen participation category

- Strengths
- Areas of development
- Other remarks
- Recommendations

Numeric evaluation: OUTSTANDING (5), EXCELLENT (4), VERY GOOD (3), GOOD (2), SUFFICIENT (1)

### **10. Short description of how the RC members contributed the compilation of the stage 2 material**

Comments on the compilation of evaluation material

### **11. How the UH's focus areas are presented in the RC's research?**

Comments if applicable

### **12. RC-specific main recommendations based on the previous questions 1-11**

### **13. RC-specific conclusions**

## **1.7 Evaluation criteria**

The panellists were expected to give evaluative and analytical feedback to each evaluation question according to their aspects in order to describe and justify the quality of the submitted material. In addition, the evaluation feedback was asked to be pointed out the level of the performance according to the following classifications:

- outstanding (5)
- excellent (4)
- very good (3)
- good (2)
- sufficient (1)

Evaluation according to the criteria was to be made with thorough consideration of the entire evaluation material of the RC in question. Finally, in questions 1-4 and 9, the panellists were expected to classify their written feedback into one of the provided levels (the levels included respective descriptions, 'criteria'). Some panels used decimals in marks. The descriptive level was interpreted according to the integers and not rounding up the decimals by the editors.

## **Description of criteria levels**

### **Question 1 – FOCUS AND QUALITY OF THE RC'S RESEARCH**

#### **Classification: Criteria (level of procedures and results)**

#### **Outstanding quality of procedures and results (5)**

Outstandingly strong research, also from international perspective. Attracts great international interest with a wide impact, including publications in leading journals and/or monographs published by leading international publishing houses. The research has world leading qualities. The research focus, key research questions scientific significance, societal impact and innovativeness are of outstanding quality.

*In cases where the research is of a national character and, in the judgement of the evaluators, should remain so, the concepts of "international attention" or "international impact" etc. in the grading criteria above may be replaced by "international comparability".*

Operations and procedures are of outstanding quality, transparent and shared in the community. The improvement of research and other efforts are documented and operations and practices are in alignment with the documentation. The ambition to develop the community together is of outstanding quality.

#### **Excellent quality of procedures and results (4)**

Research of excellent quality. Typically published with great impact, also internationally. Without doubt, the research has a leading position in its field in Finland.

Operations and procedures are of excellent quality, transparent and shared in the community. The improvement of research and other efforts are documented and operations and practices are to large extent in alignment with the documentation. The ambition to develop the community together is of excellent quality.

#### **Very good quality of procedures and results (3)**

The research is of such very good quality that it attracts wide national and international attention.

Operations and procedures are of very good quality, transparent and shared in the community. The improvement of research and other efforts are documented and operations and practices are to large extent in alignment with the documentation. The ambition to develop the community together is of very good quality.

#### **Good quality of procedures and results (2)**

Good research attracting mainly national attention but possessing international potential, extraordinarily high relevance may motivate good research.

Operations and procedures are of good quality, shared occasionally in the community. The improvement of research and other efforts are occasionally documented and operations and practices are to large extent in alignment with the documentation. The ambition to develop the community together is of good quality.

#### **Sufficient quality of procedures and results (1)**

In some cases the research is insufficient and reports do not gain wide circulation or do not have national or international attention. Research activities should be revised.

Operations and procedures are of sufficient quality, shared occasionally in the community. The improvement of research and other efforts are occasionally documented and operations and practices are to some extent in alignment with the documentation. The ambition to develop the community together is of sufficient quality.

### **Question 2 – DOCTORAL TRAINING**

### **Question 3 – SOCIETAL IMPACT**

### **Question 4 – COLLABORATION**

#### **Classification: Criteria (level of procedures and results)**

#### **Outstanding quality of procedures and results (5)**

Procedures are of outstanding quality, transparent and shared in the community. The practices and quality of doctoral training/societal impact/international and national collaboration/leadership and management are documented and operations and practices are in alignment with the documentation. The ambition to develop the community together is of outstanding quality. The procedures and results are regularly evaluated and the feedback has an effect on the planning.

#### **Excellent quality of procedures and results (4)**

Procedures are of excellent quality, transparent and shared in the community. The practices and quality of doctoral training/societal impact/international and national collaboration/leadership and management are documented and operations and practices are to large extent in alignment with the documentation. The ambition to develop the community together is of excellent quality. The procedures and outcomes are evaluated and the feedback has an effect on the planning.

#### **Very good quality of procedures and results (3)**

Procedures are of very good quality, transparent and shared in the community. The practices and quality of doctoral training/societal impact/international and national collaboration/leadership and

management are documented and operations and practices are to large extent in alignment with the documentation. The ambition to develop the community together is of very good quality.

#### **Good quality of procedures and results (2)**

Procedures are of good quality, shared occasionally in the community. The practices and quality of doctoral training/societal impact/international and national collaboration/leadership and management are documented and operations and practices are to large extent in alignment with the documentation. The ambition to develop the community together is of good quality.

#### **Sufficient quality of procedures and results (1)**

Procedures are of sufficient quality, transparent and shared in the community. The practices and quality of doctoral training/societal impact/international and national collaboration/leadership and management are occasionally documented and operations and practices are to some extent in alignment with the documentation. The ambition to develop the community together is of sufficient quality.

### **Question 9 – CATEGORY**

Participation category – fitness for the category chosen

The choice and justification for the chosen category below should be reflected in the RC's responses to the evaluation questions 1–8.

1. *The research of the participating community represents the international cutting edge in its field.*
2. *The research of the participating community is of high quality, but the community in its present composition has yet to achieve strong international recognition or a clear break-through.*
3. *The research of the participating community is distinct from mainstream research, and the special features of the research tradition in the field must be considered in the evaluation.* The research is of high quality and has great significance and impact in its field. However, the generally used research evaluation methods do not necessarily shed sufficient light on the merits of the research.
4. *The research of the participating community represents an innovative opening.* A new opening can be an innovative combination of research fields, or it can be proven to have a special social, national or international demand or other significance. Even if the researcher community in its present composition has yet to obtain proof of international success, its members can produce convincing evidence of the high level of their previous research.
5. *The research of the participating community has a highly significant societal impact.* The participating researcher community is able to justify the high social significance of its research. The research may relate to national legislation, media visibility or participation in social debate, or other activities promoting social development and human welfare. In addition to having societal impact, the research must be of a high standard.

#### **An example of outstanding fitness for category choice (5)<sup>5</sup>**

The RC's representation and argumentation for the chosen category were convincing. The RC recognized its real capacity and apparent outcomes in a wider context to the research communities. The specific character of the RC was well-recognized and well stated in the responses. The RC fitted optimally for the category.

- Outstanding (5)
- Excellent (4)
- Very good (3)
- Good (2)
- Sufficient (1)

The above-mentioned definition of outstanding was only an example in order to assist the panellists in the positioning of the classification. There was no exact definition for the category fitness.

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<sup>5</sup> The panels discussed the category fitness and made the final conclusions of the interpretation of it.

## 1.8 Timetable of the evaluation

The main timetable of the evaluation:

- |  |                       |
|--|-----------------------|
| 1. Registration                            | November 2010         |
| 2. Submission of self-evaluation materials | January–February 2011 |
| 3. External peer review                    | May–September 2011    |
| 4. Published reports                       | March–April 2012      |
| - University level public report           |                       |
| - RC specific reports                      |                       |

The entire evaluation was implemented during the university's strategy period 2010–2012. The preliminary results were available for the planning of the following strategy period in late autumn 2011. The evaluation reports will be published in March/April 2012. More detailed time schedule is published in the University report.

## 1.9 Evaluation feedback – consensus of the entire panel

The panellists evaluated all the RC-specific material before the meetings in Helsinki and mailed the draft reports to the evaluation office. The latest interim versions were on-line available to all the panellists on the Wiki-sites. In September 2011, in Helsinki the panels discussed the material, revised the first draft reports and decided the final numeric evaluation. After the meetings in Helsinki, the panels continued working and finalised the reports before the end of November 2011. The final RC-specific reports are the consensus of the entire panel.

The evaluation reports were written by the panels independently. During the editing process, the evaluation office requested some clarifications from the panels when necessary. The tone and style in the reports were not harmonized in the editing process. All the reports follow the original texts written by the panels as far as it was possible.

The original evaluation material of the RCs, provided for the panellists is attached at the end of the report. It is essential to notice that the exported lists of publications and other scientific activities depend how the data was stored in the TUHAT-RIS by the RCs.



# 2 Evaluation feedback

## 2.1 Focus and quality of the RC's research

- *Description of*
    - *the RC's research focus*
    - *the quality of the RC's research (incl. key research questions and results)*
    - *the scientific significance of the RC's research in the research field(s)*
  - *Identification of the ways to strengthen the focus and improve the quality of the RC's research*
- ASPECTS: Scientific quality, scientific significance, societal impact, innovativeness*

Biological Systematics and Taxonomy:

This group is part of the Finnish Museum of Natural History (FMNH), with the scientific focus on the strong collections of the Museum. They play a key curatorial role in the maintenance of the museum collections, and deserve evaluation by criteria somewhat different than those for the more conventional academic research groups.

The team includes 19 PIs, of which 10 are professor level scientists, five are postdocs, and more than a dozen graduate students.

The particular strengths are with respects to bryophytes, fungal and insect systematics, including butterflies and moths.

The accessibility of the collections is being upgraded through digitizing and imaging with external funding. The collections are an international resource and the group is tied to an international web of taxonomists, phylogenetic experts and other museum staff.

Though often left in the shadows of biomedical publicity, the enormous body of genomics data being collected worldwide is absolutely dependent on increased knowledge of the actual morphology, physiology and ecology of the organism. Thus the need for the kind of systematics research carried out in this group is increasing rather than decreasing.

It remains difficult to integrate the kind of intellectual work carried on by curators and by systematics researchers, with the more molecular and biochemical aspects of modern biology. This group has integrated the tools of genomics and computational biology, and is certainly positioned well. Some of the difficulties represent integration of museums with their public mission, and research institutes, with different priorities.

Field-normalized bibliometric indicators show that there is still room for improvement regarding the scientific quality and impact. Even if the collaboration between the FMNH and researchers outside has developed in recent years, further integration provides a lot of opportunities for innovative research based on new methodologies and technologies.

Though the resources may be lacking, the group should have a wish list of classes of organisms very important in Finland, which are not the subject of major collections elsewhere, and should at some point be added to the FMNH.

**Numeric evaluation: 3 (Very Good)**

## 2.2 Practises and quality of doctoral training

- *Organising of the doctoral training in the RC. Description of the RC's principles for:*
  - *recruitment and selection of doctoral candidates*
  - *supervision of doctoral candidates*
  - *collaboration with faculties, departments/institutes, and potential graduate schools/doctoral programmes*
  - *good practises and quality assurance in doctoral training*

- *assuring of good career perspectives for the doctoral candidates/fresh doctorates*
- *Identification of the RC's strengths and challenges related to the practises and quality of doctoral training, and the actions planned for their development.*
- *Additional material: TUHAT compilation of the RC's other scientific activities/supervision of doctoral dissertations*

*ASPECTS: Processes and good practices related to leadership and management*

Though the FMNH does not grant degrees, doctoral students are enrolled under PI supervision through the Faculty of Biological and Environmental Sciences and also the Finnish School in Wildlife Biology, Conservation and Management (LUOVA). From the material provided, it is difficult to assess what the character of the doctoral education programs for this set of students actually is. Do they know each other? Do they meet together regularly or participate in a common seminar series? Because of the high level of visiting scientists, collaborators etc, in the systematics research, they are likely to be integrated internationally in their own areas of research.

The recruitment of doctoral students is partly informal and based on the personal interests of students, and partly through open calls.

In practice all RC graduate students are enrolled in the LUOVA school which provides them with systematic, high quality doctoral training.

**Numeric evaluation: 4 (Excellent)**

## 2.3 The societal impact of research and doctoral training

- *Description on how the RC interacts with and contributes to the society (collaboration with public, private and/or 3rd sector).*
- *Identification of the ways to strengthen the societal impact of the RC's research and doctoral training.*
- *Additional material: TUHAT compilation of the RC's other scientific activities.*

*ASPECTS: Societal impact, national and international collaboration, innovativeness*

The societal contributions of this RC are significant. The museum collections themselves are public resources. The group has contributed manuals and field guides for the amateur and general public. The effort to identify rare organisms from Finnish ecosystems and making the data available to the wider research community is very valuable. However, there is still a long way to go regarding the accessibility of this data.

This form of general education is the key for the long term protection of ecosystems. It is important the evaluation of this group has criteria reflecting also this important function, not only the bibliometrics, to make sure they can carry on their public responsibilities effectively.

**Numeric evaluation: 4 (Excellent)**

## 2.4 International and national (incl. intersectoral) research collaboration and researcher mobility

- *Description of*
  - *the RC's research collaborations and joint doctoral training activities*
  - *how the RC has promoted researcher mobility*
- *Identification of the RC's strengths and challenges related to research collaboration and researcher mobility, and the actions planned for their development.*

*ASPECTS: Scientific quality, national and international collaboration*

According to the RC, more than 100 collaborators from around the world participate in their research projects. FMNH maintains contacts with some 500 institutions through loans and exchanges; the RC has



participated in many international data web and systematics projects. They have hosted many visits, conferences and related activities.

As noted above, it might be useful to develop a strategic plan not only building on the collections they currently have, but identifying groups of organisms that should be targeted in the future. These might be of particular local ecological and biotechnological interest.

**Numeric evaluation: 4 (Excellent)**

## 2.5 Operational conditions

- *Description of the operational conditions in the RC's research environment (e.g. research infrastructure, balance between research and teaching duties).*
- *Identification of the RC's strengths and challenges related to operational conditions, and the actions planned for their development.*

*ASPECTS: Processes and good practices related to leadership and management*

Collections make the backbone of the research environment for the RC members, and their organization and replenishment with new material are closely intertwined with the research work. The collections comprise over 13 M specimens, and in some groups they are rich in primary types. This is a real asset even in the global scale. Facilities for molecular systematics are also in place. For phylogenetic computing, the researchers can use the parallel computing environment of CSC - IT Center for Science Ltd (previously the Finnish Center of Scientific Computing), as well as their own 20-node Unix cluster. The museum is also a member of the FinGrid national computational facility to ensure access to very large computing resources in the future.

Overall, the operational conditions of BIOSYST are very good compared to many other countries. There seems to be a good balance between teaching and research among the PIs.

## 2.6 Leadership and management in the researcher community

- *Description of*
  - *the execution and processes of leadership in the RC*
  - *how the management-related responsibilities and roles are distributed in the RC*
  - *how the leadership- and management-related processes support*
    - *high quality research*
    - *collaboration between principal investigators and other researchers in the RC*
    - *the RC's research focus*
    - *strengthening of the RC's know-how*
- *Identification of the RC's strengths and challenges related to leadership and management, and the actions planned for developing the processes*

*ASPECTS: Processes and good practices related to leadership and management*

The RC is very positive about the new management, which comprises of scientists with a motivation of a supporting role for the research.

The museum operations are clearly well organized. But of course museum missions and academic research missions, despite their overlap, represent divergent cultures and needs. The group has tried to respond to improving the organization of the research and doctoral effort since the last review. It is not clear these problems have been solved elsewhere, so the current organizational efforts may well be state of the art.

## 2.7 External competitive funding of the RC

- *The RCs were asked to provide information of such external competitive funding, where:*
  - *the funding decisions have been made during 1.1.2005–31.12.2010, and*
  - *the administrator of the funding is/has been the University of Helsinki*
- *On the e-form the RCs were asked to provide:*
  - 1) *The relevant funding source(s) from a given list (Academy of Finland/Research Council, TEKES/The Finnish Funding Agency for Technology and Innovation, EU, ERC, foundations, other national funding organisations, other international funding organizations), and*
  - 2) *The total sum of funding which the organisation in question had decided to allocate to the RCs members during 1.1.2005–31.12.2010.*

*Competitive funding reported in the text is also to be considered when evaluating this point.*

*ASPECTS: Scientific quality, scientific significance, societal impact, innovativeness and future significance*

BIOSYST has been successful in getting external funding for research projects as well as for their museum tasks, e.g. digitizing the collections.

## 2.8 The RC's strategic action plan for 2011–2013

- *RC's description of their future perspectives in relation to research and doctoral training.*

*ASPECTS: Scientific quality, scientific significance, societal impact, processes and good practices related to leadership and management, national and international collaboration, innovativeness, future significance*

The RC BIOSYST has outlined no common strategy, but they have identified two principal lines to develop the activities: One related to enhancing the shared activities and identity of the research community, the other related to ensuring and strengthening the relationships of the individual groups and the RC to other institutions, in order to better locate BIOSYST as part of the broader national and international research community. Both of them are highly desirable developments.

Several very concrete actions have also been identified related to improving the student interface, which the RC sees fundamentally important. Another weakness identified by the RC is the uneven activity for obtaining external funding. A few measures have been proposed by the group to tackle this issue.

## 2.9 Evaluation of the category of the RC in the context of entity of the evaluation material (1-8)

*The RC's fitness to the chosen participation category.*

*Category 3. The research of the participating community is distinct from mainstream research, and the special features of the research tradition in the field must be considered in the evaluation.*

Category 3 'Research of the participating community is distinct from mainstream research, and the special features of the research tradition in the field must be considered in the evaluation'.

The category is well chosen.

**Numeric evaluation: 4 (Excellent)**

## 2.10 Short description of how the RC members contributed the compilation of the stage 2 material

All the PIs were strongly involved in the compilation of the material.

## **2.11 How the UH's focus areas are presented in the RC's research**

*Focus area 2: The basic structure of life*

BIOSYST provides an important contribution to the UH focus area 'The basic structure of life'.

## **2.12 RC-specific main recommendations**

The problem identified by the RC of integrating and connecting to other research initiatives remains open. This will not be easy, and there are few examples from other institutions since, as we note below, the curatorial and public service functions need to be maintained.

## **2.13 RC-specific conclusions**

(From above):

It will important to somewhat insulate this group from excessive pressure for publication level research, to make sure they can carry on their public responsibilities effectively.

A strategic plan is needed to identify additional groups of organisms of Finnish or Baltic importance to the collections, at some time in the future.



# 3 Appendices

- A. Original evaluation material
  - a. Registration material – Stage 1
  - b. Answers to evaluation questions – Stage 2
  - c. List of publications
  - d. List of other scientific activities
- B. Bibliometric analyses
  - a. Analysis provided by CWTS/University of Leiden
  - b. Analysis provided by Helsinki University Library (66 RCs)



International evaluation of research and doctoral training  
at the University of Helsinki 2005-2010

RC-SPECIFIC MATERIAL FOR THE PEER REVIEW

NAME OF THE RESEARCHER COMMUNITY:  
Biological Systematics and Taxonomy (BIOSYST)

LEADER OF THE RESEARCHER COMMUNITY:  
Professor Soili Stenroos, Finnish Museum of Natural History (Botany)

RC-SPECIFIC MATERIAL FOR THE PEER REVIEW:

- Material submitted by the RC at stages 1 and 2 of the evaluation
  - STAGE 1 material: RC's registration form (incl. list of RC participants in an excel table)
  - STAGE 2 material: RC's answers to evaluation questions
- TUHAT compilations of the RC members' publications 1.1.2005-31.12.2010
- TUHAT compilations of the RC members' other scientific activities 1.1.2005-31.12.2010
- Web of Science(WoS)-based bibliometrics of the RC's publications data 1.1.2005-31.12.2010 (analysis carried out by CWTS, Leiden University)

*NB! Since Web of Science(WoS)-based bibliometrics does not provide representative results for most RCs representing humanities, social sciences and computer sciences, the publications of these RCs will be analyzed by the UH Library (results available by the end of June, 2011)*



INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE  
UNIVERSITY OF HELSINKI

RC-SPECIFIC STAGE 1 MATERIAL (registration form)

1 RESPONSIBLE PERSON

Name: Stenroos, Soili

E-mail:

Phone: 050 5826326

Affiliation: Finnish Museum of Natural History (Botany)

Street address: Unioninkatu 44

2 DESCRIPTION OF THE PARTICIPATING RESEARCHER COMMUNITY (RC)

Name of the participating RC (max. 30 characters): Biological Systematics and Taxonomy

Acronym for the participating RC (max. 10 characters): BIOSYST

Description of the operational basis in 2005-2010 (eg. research collaboration, joint doctoral training activities) on which the RC was formed (MAX. 2200 characters with spaces): The BIOSYST consortium is an aggregation of systematists working within or in association with the Finnish Museum of Natural History (FMNH). Many parts of the collections in FMNH, around which the research has developed for over a century and a half, are of prominent global and historical relevance, particularly those of bryophytes, lichens, and insects.

The consortium consists of research groups based at the Botanical and Zoological units of the FMNH and at the Dept. of Biosciences, as well as individual PIs pursuing research in classical museum taxonomy. In all, the team submitted includes 19 PIs, of which 10 professor-level scientists, 5 post-docs and 16 graduate students, 6 of which graduated. The core of the consortium comprises the ascomycete research teams of Stenroos and Myllys), bryophyte teams of Hyvönen and He, and the zoological teams of Kaila, Muona and Väinölä.

The senior participants have decades of experience in herbarium taxonomy and over 25 years in phylogenetics. We are part of a well-established international network of taxonomists. We maintain connections to major scientific sister institutions in Europe, US, South Africa, and Asia, including research visits and student exchange. We have been participants in international research projects such as NSF funded AFTOL, ATOLBeetles, ToL, EU funded LIFE05 ECODIPTERA, HOTSPOTS, and ESF EUROCORES EuroDIVERSITY.

Apart from the museum collections, our research infrastructure includes the UH Molecular Ecology and Systematics laboratory jointly operated with the Dept. of Biosciences, the massive parallel computing environment provided by the Finnish Center of Scientific Computing (CSC), as well as a 20-node Unix cluster in FMNH for phylogenetic analyses; a still larger facility for distributed computing is under development.

FMNH is a national node of GBIF and BioCASE, and we are actively digitizing the collections with funding from the Ministry of Education and Culture and the US Mellon Foundation (GPI). Recently, a scientific steering group has been established to build a coherent strategy for the FMNH to efficiently direct research and student training in the field.



INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE  
UNIVERSITY OF HELSINKI

RC-SPECIFIC STAGE 1 MATERIAL (registration form)

3 SCIENTIFIC FIELDS OF THE RC

Main scientific field of the RC's research: biological, agricultural and veterinary sciences

RC's scientific subfield 1: Biology

RC's scientific subfield 2: Mycology

RC's scientific subfield 3: Plant Sciences

RC's scientific subfield 4: Zoology

Other, if not in the list: Systematics and Taxonomy

4 RC'S PARTICIPATION CATEGORY

Participation category: 3. Research of the participating community is distinct from mainstream research, and the special features of the research tradition in the field must be considered in the evaluation

Justification for the selected participation category (MAX. 2200 characters with spaces):

Systematics/taxonomy is the most ancient field of biology. Its original aim to classify and describe diversity of the biosphere we share with millions of other species has remained the same, while the theoretical basis and the methods have experienced total change over the last decades. Taxonomy differs profoundly from other fields of biology. First of all it is comparative science in a sense that studied material is composed of comparative analyses of organisms representing hundreds, or even thousands of different species or other taxa. Taxonomy is also descriptive science and thus many of its basic results are published in monographs. Unlike other fields of biology contemporary taxonomy is clearly historical science aiming to provide explanations for unique events of evolutionary history spanning millions of years. Experiments are impossible and thus we are bound to use characters of extant, and in some cases fossil, organisms for reconstruction of their evolutionary history. While taxonomy provides a logical foundation for all biological information it is in minority in almost all research institutes worldwide. Getting a proper peer-review, undertaken by real experts of the field, is always an acute problem. It should also be noted that the museum researchers are unlike typical university professors and lecturers. Their major responsibility is in collection management and research, and this severely limits the time available for teaching. Further, FMNH is not an institution providing degrees.

5 DESCRIPTION OF THE RC'S RESEARCH AND DOCTORAL TRAINING

Public description of the RC's research and doctoral training (MAX. 2200 characters with spaces):

Taxonomic expertise is needed to identify and classify biological resources and to organize this knowledge in publicly accessible databases. These can be used as powerful tools to understand, maintain, and sustainably use of the biological wealth of the Earth. The need of this information is globally increasing, but the expertise necessary for reliable inventory and classification of the biota is rapidly decreasing.

The collections and expertise in FMNH are of prominent global relevance and highly valued internationally. We have decades of experience in collection based taxonomy, and over 25 years in phylogenetics, and we make part of a well-established worldwide network of taxonomists. Our strength is in bryophyte, fungal and insect taxonomy and systematics, and it is closely connected to our world famous collections.





INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE  
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RC-SPECIFIC STAGE 1 MATERIAL (registration form)

By producing major new molecular and morphological data, and by utilizing traditional sources of data, we have been developing phylogenetic frameworks for many major groups of poorly known organisms. We are particularly concentrating in enhancing efficient use and to develop the parallel computing environments for large-scale phylogenetic analyses.

The mycology teams have focused on taxonomy and phylogeny of lichen-forming and epibryophytic ascomycetes, including both large-scale phylogenetic analyses and basic taxonomic surveys. The bryological work has concentrated on phylogenetic analyses of major groups and revisional studies of poorly known areas with exceptional diversity. The major zoological enterprises include a large-scale phylogenetic assessment of the world butterflies and moths, phylogeographic approaches to the history of circumboreal marine and freshwater faunas, as well basic taxonomic and phylogenetic surveys of several families of beetles and flies. Doctoral students have been trained in all the above mentioned teams.

Web-accessible databases of the museum collections are actively being built particularly with external funding obtained from the Ministry of Education and Culture and the US Andrew Mellon Foundation.

Significance of the RC's research and doctoral training for the University of Helsinki (MAX. 2200 characters with spaces): We have extensive expertise in the field. We have obtained funding from the Academy of Finland for studying the phylogeny of groups of bryophytes, fungi and arthropods globally. We also focus on screening genomes, determining barcodes, and producing monographic treatments of various taxonomic groups. Publications for general public have also been produced. We cooperate with the Ministry of Environment in making inventories of poorly known organisms in Finland. This funding has largely been directed to FMNH due to the high standard of expertise and hence, major output in the program of poorly known organisms (PUTTE) comes out from the FMNH.

Our projects are joined by more than 100 collaborators from around the world. More than 50 researchers and scholars visit FMNH annually to study the collections. This network ensures that our researchers and students can utilize data and collections globally and have access to foreign laboratories and field stations. Our target geographical regions of expertise cover the globe extensively. This expertise and resulted data and collections are highly valued internationally. We have contributed to numerous international projects and programs, such as Atlas Flora Europaeae, Assembling Tree of Life, Fauna Europaea, Flora of Australia, Flora of the Guianas, Flora Neotropica, Flora Nordica, Global Plants Initiative, Nordic Lichen Flora, Species2000, Swedish Taxonomy Initiative, and Tree of Life.

Our PI's are well positioned to lead international research projects and supervise Ph.D. students and post-docs. Many students have been co-supervised (FMNH and Dept. of Biosciences) in order to offer a maximum diversity of know-how, and to enhance cooperation between the units. Further, some of us have been invited to act as co-supervisors of PhD students in foreign institutions.

We are also in a process of building strategies to efficiently coordinate the training of graduate students in cooperation. A large scale museum course is in the planning, topics including up-to-date phylogenetic, laboratory and herbarium techniques, as well as modern tools for species identification.

Keywords: arthropods, biogeography, bryophytes, fungi, lichen-forming fungi, molecular systematics, parallel computing, phylogeny, systematics, taxonomy, vascular plants



INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE  
UNIVERSITY OF HELSINKI

RC-SPECIFIC STAGE 1 MATERIAL (registration form)

6 QUALITY OF RC'S RESEARCH AND DOCTORAL TRAINING

Justified estimate of the quality of the RC's research and doctoral training at national and international level during 2005-2010 (MAX. 2200 characters with spaces): Support from the central national funding bodies (Academy of Finland, Ministry of Environment) has remained fairly constant during the current evaluation period, but clearly increased as compared to the previous research evaluation. The recent decline in 2009 is due to the fact that general funding for the large national program on deficiently known organisms (PUTTE; Ministry of Environment) was significantly decreased. Funding has also been obtained from the EU but this source has not (as yet) been optimally used.

In comparison with a Nordic sister institution of similar size (Riksmuseet, Stockholm), the quality and quantity of our research output is at approximately the same level, if assessed on the basis of ISI database statistics. The main output is however produced by fairly few of the researchers and the average number of publications per person thus remains fairly low. However, typical of the discipline, a significant number of articles are also published in diverse smaller national series or other volumes because of their descriptive nature. Numerous papers have still been published in high quality journals in the field, such as Molecular Phylogenetics and Evolution, Molecular Ecology, Cladistics, and Systematic Biology, for instance.

In 2005-2010 we have supervised/co-supervised altogether 29 PhD students, and 12 of these students have completed their thesis during the evaluation period (all are not listed under BIOSYST consortium, some are/have been in other consortia or in other national or foreign institutions). All our students have been able to obtain a job corresponding to their training: a post-doc position in a prestigious institute or a tenured position in science or environmental administration, for instance.

Comments on how the RC's scientific productivity and doctoral training should be evaluated (MAX. 2200 characters with spaces): The assessment should be based on comparisons to other systematists and taxonomists internationally, and to the institutes of approximately the same size and scientific profile. The evaluation of scientific productivity should take into account all types of publications. In addition to the modern approaches of molecular systematics and phylogenetics published in major international outlets, the evaluation should encompass taxonomic monographs and contributions to faunistic and floristic treatments as well as the completed theses, including those co-supervised in other national and foreign institutions.

In publishing we primarily aim at leading international journals. However, by necessity of their nature, monographic treatments often make an exception in this respect. In their best, such works are produced by highly experienced scientists as a result of even decades of effort. Unlike in all other fields of biology, this kind of publication is still common, and necessary in taxonomy, but the general ISI criteria they remain apparently severely underrated. Similarly, also more narrow descriptive and revisionary works are often not accepted to high profile journals and thus end up in less valued venues, despite their importance as a foundation for studies in other fields of biology. Diverse books and guides aimed for the general public are also an integral part of our publishing strategy.

## LIST OF RC MEMBERS

NAME OF THE RESEARCHER COMMUNITY:		BIOSYST			
RC-LEADER		S. Stenroos			
CATEGORY		3			
	Last name	First name	PI-status (TUHAT, 29.11.2010)	Title of research and teaching personnel	Affiliation
1	Ahonen*	Inkeri		Doctoral Candidate (degree 2005)	Department of Biosciences (Plant Biology)
2	Ahti	Teuvo		Professor (Emeritus)	Finnish Museum of Natural History (Botany)
3	Alaruikka	Diana		Doctoral Candidate	Finnish Museum of Natural History (Zoology)
4	Audzijonyte	Asta		Postdoctoral Researcher (Doctoral candidate till 2008)	Finnish Museum of Natural History (Zoology)
5	Bell	Neil		Postdoctoral Researcher	Department of Biosciences (Plant Biology)
6	Biström	Olof	x	Professor	Finnish Museum of Natural History (Zoology)
7	Brüstle*	Lena		Doctoral Candidate (degree 2009)	Finnish Museum of Natural History (Zoology)
8	Christenhusz	Maarten		University Researcher (Curator)	Finnish Museum of Natural History (Botany)
9	Colacine	Carmine		Doctoral Candidate	Department of Biosciences (Plant Biology)
10	Daneliya	Mikhail		Postdoctoral Researcher	Finnish Museum of Natural History (Zoology)
11	Ghobadnejhad	Masoomeh		Doctoral Candidate	Department of Biosciences (Plant Biology)
12	Hardman	Michael		Postdoctoral Researcher	Finnish Museum of Natural History (Zoology)
13	He	Xiao-lan	x	University Researcher	Finnish Museum of Natural History (Botany)
14	Heikkilä	Maria		Doctoral Candidate	Finnish Museum of Natural History (Zoology)
15	Högnabba	Filip		Postdoctoral Researcher	Finnish Museum of Natural History (Botany)
16	Hyvönen	Jaakko	x	Professor	Department of Biosciences (Plant Biology)
17	Juslén**	Aino		Doctoral Candidate (degree 2006); now Director of the Zoology Unit, FMNH	
18	Kaila	Lauri	x	Professor (Head Curator)	Finnish Museum of Natural History (Zoology)
19	Kekkonen	Mari		Doctoral Candidate	Finnish Museum of Natural History (Zoology)
20	Laakkonen	Hanna		Doctoral Candidate	Finnish Museum of Natural History (Zoology)
21	Laurenne*	Nina		Doctoral Candidate (degree 2008)	Finnish Museum of Natural History (Zoology)
22	Lindgren	Hanna		Doctoral Candidate	Finnish Museum of Natural History (Botany)
23	Muona	Jyrki	x	Professor (Head Curator)	Finnish Museum of Natural History (Zoology)
24	Myllys	Leena	x	Senior Researcher (Curator)	Finnish Museum of Natural History (Botany)
25	Nikula*	Raisa		Doctoral Candidate (degree 2008)	Finnish Museum of Natural History (Zoology)
26	Piippo	Sinikka	x	Professor	Finnish Museum of Natural History (Botany)
27	Schulman	Leif	x	Professor (Director)	Finnish Museum of Natural History (General)
28	Sennikov	Alexander		University Researcher	Finnish Museum of Natural History (Botany)
29	Sihvonen	Pasi		University Researcher (Curator)	Finnish Museum of Natural History (Zoology)
30	Sohrabi	Mohammad		Doctoral Candidate	Finnish Museum of Natural History (Botany)
31	Ståhls-Mäkelä	Gunilla	x	University Researcher	Finnish Museum of Natural History (Zoology)
32	Stenroos	Soili	x	Professor	Finnish Museum of Natural History (Botany)
33	Teräväinen	Marianna		Doctoral Candidate	Finnish Museum of Natural History (Zoology)
34	Vahtera*	Varpu		Doctoral Candidate (degree 2008)	Finnish Museum of Natural History (Zoology)
35	Vainola	Risto	x	Professor (Head Curator)	Finnish Museum of Natural History (Zoology)
36	Väre	Henry	x	Professor (Head Curator)	Finnish Museum of Natural History (Botany)
37	Velmala	Saara		Doctoral Candidate	Finnish Museum of Natural History (Botany)
38	Vilkamaa	Pekka	x	University Researcher (Curator)	Finnish Museum of Natural History (Zoology)



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RC-SPECIFIC STAGE 2 MATERIAL

BACKGROUND INFORMATION

Name of the RC's responsible person: Stenroos, Soili

E-mail of the RC's responsible person:

Name and acronym of the participating RC: Biological Taxonomy and Systematics, BIOSYST

The RC's research represents the following key focus area of UH: 2. Elämän perusrakenne – The basic structure of life

Comments for selecting/not selecting the key focus area: All life on earth is a result of phylogenetic diversification. Taxonomy and systematics are fields of science that describe, classify and name this diversity. Reconstructing the tree of life in the form of robust hypotheses of phylogeny is one of the most important goals of contemporary systematics and the results provide the basis for practically all fields of biology.

1 FOCUS AND QUALITY OF RC'S RESEARCH (MAX. 8800 CHARACTERS WITH SPACES)

- **Description of the RC's research focus, the quality of the RC's research (incl. key research questions and results) and the scientific significance of the RC's research for the research field(s).**

Our research focus is particularly in bryophyte, fungal and insect systematics, and it is closely connected to the extensive collections housed at the Finnish Museum of Natural History. These collections are global in coverage, rich in type material and thus enable studies of practically any geographical region in many organism groups. We have produced major new molecular data sets, utilized traditional sources of data, and analyzed these simultaneously in order to provide robust phylogenetic hypotheses for numerous poorly known organism groups. The bryological work has concentrated on phylogenetic analyses of major lineages, and revisional studies of poorly known areas with exceptional diversity. Fungal systematics concentrates on large-scale phylogenetic analyses of different groups of lichenized ascomycetes and epibryophytic ascomycete microfungi, as well as DNA barcoding of deficiently known crustose lichens. The major zoological enterprises include a large-scale phylogenetic assessment of the world butterflies and moths, phylogeographic studies of the history of circumboreal marine and freshwater faunas, plus basic taxonomic and phylogenetic surveys of several families of beetles and flies.

All life on earth has arisen through phylogenetic diversification, and reconstructing the history of life in the form of robust hypotheses of phylogeny is one of the most important goals of contemporary systematics. The results of these studies can be used as tools to understand, maintain, and manage sustainable use of the biological wealth of the Earth.

In bryophytes our primary goals have been to figure out the evolutionary history of the basal groups of mosses, especially Polytrichopsida, and phylogeny of the major lineages of hepatics. In a series of publications we have shown that the oldest lineages of Polytrichopsida are now represented by only a few relict species currently found exclusively on geologically young Macaronesian islands, in the high arctic and the Himalayas, plus circum-Pacific highly maritime coastal regions. Genera currently found exclusively in the southern hemisphere form a grade between these oldest lineages and the most speciose genera with predominantly northern hemisphere distribution. We have presented a critical, detailed re-evaluation of the sporophyte characters and revised classification based on these results. For hepatics we have presented new classification based on phylogenetic analyses of numerous genes and morphology. We have also estimated the age of the major hepatic lineages. Currently we are preparing



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large-scale phylogenetic analysis of all basal lineages of embryophytes based on 11 genes and morphology.

In fungi one of our primary goals are to reconstruct the evolutionary history of the Lecanoromycetes, which includes the majority of the lichenized taxa. These analyses are currently made jointly with the AFTOL-team at the Duke University, and include from 1 500 to over 2 000 taxa (multi gene and single gene analyses, respectively). In addition, we work on several lower rank phylogenies, within the Cladoniaceae and Parmeliaceae, and address problems related to DNA barcoding. Other major target groups include epibryophytic ascomycete microfungi. These fungi turned out to be surprisingly common, and their host preferences and life strategies are extremely complex, ranging from symbiosis or parasitism to pathogenity. Multigene analyses have provided first hypotheses for the phylogeny of these microfungi: they are widely spread across multiple classes of the ascomycetes, and mosses appear to have been selected multiple times as hosts during the evolutionary history. These results have been utilized in studying defence mechanisms in plants, for instance.

In a major part of the zoological work, the basic approach has been to combine solid taxonomy with proper analyses in order to create robust phylogenies for particular taxa. From datasets covering both morphology and molecular markers, total evidence hypotheses are generated, which can then be used to evaluate different evolutionary questions. In another line of studies, the focus is on the questions of biogeographical history, speciation and interspecies hybridization, which may be addressed through analyses of diverse taxa, ranging from vertebrates to worms. In the first line, major taxonomic, phylogenetic and biogeographic enterprises have been undertaken on the Lepidoptera and particularly the Elachistidae, in the dipteran fly families Sciaridae, Syrphidae and Platypezidae, the beetle families Eucnemidae and Dytiscidae, and in mysid crustaceans. These studies are generally accompanied with basic alpha-taxonomical work. Molecular barcoding has recently been added to the repertoire of approaches, and we are involved in the Finnish barcoding campaign, FinBOL, a part of the global iBOL project ([www.barcodingoflife.com](http://www.barcodingoflife.com)). An integrated approach to species delimitation involving analysis of multiple sets of characters is promoted. In the second line, we have addressed the biogeography of the Pacific terrestrial fauna, and used phylogeographic approaches in elucidating the history of the aquatic organisms on a circumpolar scale, e.g. inter-oceanic relationships in the Quaternary, origin of continental freshwater taxa from marine ancestors, the assembly of Baltic Sea fauna, and the origin of biodiversity in ancient lakes (Baikal and the Caspian). Further evolutionary studies have addressed the origin of bioluminescence in elateroid beetles, the usefulness of molecular clocks, and the structure of animal hybrid swarms.

Web-accessible databases of the museum collections are actively developed with external funding obtained from the Ministry of Education and Culture and the US Andrew Mellon Foundation. This US foundation provides funding for digitizing and imaging the unique type collections of the herbarium (the estimated total is ca. 65 000 type specimens). We build web-based identification tools for several groups of insects in co-operation with the Cornell University researchers. We also joined the EU-funded KeyToNature project (University of Trieste) to build interactive identification keys for fungi and vascular plants. This can be used on different media, including web-based and mobile applications. Finally, we cooperate with the Ministry of Environment in making inventories of poorly known organisms in Finland.

Major governmental funding has been directed to FMNH because of our expertise and hence, most output in the recent national program of deficiently know organisms (PUTTE) has come from our researchers. In addition to the funding administrated by the University of Helsinki (summarized below under question 7), many of the RC members have obtained personal national and international funding directly. More than 50 foreign researchers and scholars visit annually to study the collections and collaborate with our researchers. We have contributed to numerous international projects and programs, such as Atlas Flora Europaeae, US Assembling Tree of Life, Fauna Europaea, Flora of Australia,



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Flora of the Guianas, Flora Neotropica, Flora Nordica, Global Plants Initiative, Nordic Lichen Flora, Swedish Taxonomy Initiative, Species2000, and Tree of Life. All senior participants are well positioned to lead international research projects and supervise Ph.D. students and post-docs.

• **Ways to strengthen the focus and improve the quality of the RC's research.**

The large global collections (> 13 M specimens), which are rich in type material (ca. 75 000) enable studies of any region in our focal groups. Our 100 collaborators plus over 500 institutional contacts provide chances for new joint projects and publications. Active connections to the specialists in theoretical and computational systematics are also maintained. In the previous assessment, ability to obtain external funding and mostly low profile publications were criticized. This has been clearly improved with several groups producing publications in the leading journals of the field. The major challenge is to continue this positive development when some of the major sources of funding (e.g. PUTTE program) are not available and competition of funding is more severe than ever. The main challenge is to use our vast collections in their full potential, and join forces in a research field that is inherently organism oriented. How to maintain our expertise (which will make us attractive collaborators) while tackling more general questions of biology that will enable competitive proposals?

2 PRACTISES AND QUALITY OF DOCTORAL TRAINING (MAX. 8800 CHARACTERS WITH SPACES)

- How is doctoral training organised in the RC? Description of the RC's principles for recruitment and selection of doctoral candidates, supervision of doctoral candidates, collaboration with faculties, departments/institutes, and potential graduate schools/doctoral programmes, good practises and quality assurance in doctoral training, and assuring good career perspectives for the doctoral candidates/fresh doctorates.

The recruitment and selection of doctoral students is liberal and follows roughly two principal avenues: one driven by the interests and enthusiasm of the candidates, the other driven by the resources provided by the supervisor or research group. By the nature and tradition of the biological systematics, the first avenue is more prominent at the museum than elsewhere in the university. The role of PIs as teachers in the undergraduate evolutionary courses is an important though somewhat unpredictable source of new recruits as well.

The primary drive to pursue a career in systematics may arise from a background of amateur activities, or, in enthusiasm on a particular taxon or interest initiated during the course of MSc level research. PhD projects may be started in such instances by a mutual effort of the student and a chosen supervisor, with help of a grant applied for example from private foundations.

In the case of funding from the Academy of Finland, it has become common to enroll students through an open call, usually international, whereas this practice is still less widespread in systematics than other branches of biology. Open calls have brought three of our PhD students. A larger number has been recruited among students already with interest in systematics during their undergraduate or graduate level courses. A clear advantage for international students is the fact that PhD level studies in the University of Helsinki have been free of charge even for foreigners.

The museum itself, although part of the university, does not grant university degrees, but the graduate students of the RC are enrolled for their studies in the Faculty of Biological and Environmental Sciences. Most of the PIs are appointed adjunct professors ("docents") in the faculty (or in other universities), which entitles them to act as thesis supervisors.

As students of the University and the Department of Biosciences, the doctoral candidates are entitled to the support and bound by the rules and control system of the PhD studies of the department. Moreover, FMNH is a partner and steering group member in the Finnish School in Wildlife Biology,



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Conservation and Management "LUOVA" (<http://www.helsinki.fi/biosci/luova/index.html>), a graduate school coordinated by the department, and this school has since 2007 imposed stricter-than-average monitoring and support guidelines of the graduate students. In practice all RC graduate students are enrolled in the LUOVA school.

To enter doctoral studies, the students must have a research and study plan jointly prepared with a supervisor and accepted by the department. Besides the supervisor, the student will have an advisory committee, comprising at least two independent specialists in a relevant field, who will monitor the progress in annual meetings, and who will finally evaluate when the thesis is ready to be submitted. "The advisory committee supports the student's graduation within the normative duration of studies. The committee's task is to give constructive feedback on the progress of postgraduate studies and research, discuss the student's research plan and issue recommendations both on studies supporting the student's research work and, if necessary, on the continuation or termination of the work." The thesis itself will then be scrutinized by two independent referees appointed by the faculty, before final public defense. The target time of full-time doctoral studies is 4 years. A typical average time within the RC, and in the university in general, has been 5-6 years (excluding maternity leaves).

Apart from the doctoral thesis, which in practice would normally consist of 4-6 scientific papers, the doctoral curriculum comprises 60 credits of independent studies, which includes a preliminary research essay, final book exams, seminars, and a free choice of other activities, which may be national or international courses, but can include activities such as participation in teaching, presentations in conferences, and publications not included in the thesis for example.

The LUOVA graduate school coordinates and organizes short courses particularly on methodological issues and on general career development, and collaborates with other national research schools on shared courses. It actively informs about international course opportunities, and provides travel grants for attendance and also for short research visits to foreign laboratories. The school also organizes an annual student symposium for graduate students, with international evaluators of the student presentations.

The Research and Teaching Steering Group of the FMNH is a new body created in the recent reorganization of our administrative model. It will be the key factor in creating a more structured environment for graduate students in the future. We see this as an important opening and the efforts of this body will be instrumental in the future development of the RC. It is the first step towards a possibly self-sufficient teaching facility created around our national biological collections. We are currently supervising or have supervised 20 MSc and 30 PhD theses in different fields of systematics. Further, numerous PIs have served as co-supervisors of PhD students in foreign institutions.

- RC's strengths and challenges related to the practises and quality of doctoral training, and the actions planned for their development.

Major challenge is the strength and sheer volume of the other "competing" fields of biology. The global need for new taxonomists has been acknowledged at the highest political level but funding to develop careers in systematics have not started for real. In order to attract students we have to show realistic avenues of career development comparable to other fields. However, this equals the situation in most countries, even in the US, where large investments have lately been made in training new generation of systematists. We have to strengthen our image as world-class research institute and attract leading specialists to apply for visiting positions in the museum. Other actions include the identification of interested students and avoidance of isolation from the broader student community (teaching programs and collaboration). Further, logistic and financial support for training across institutions and countries is needed to safeguard against the narrowing of taxonomic expertise.



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3 SOCIETAL IMPACT OF RESEARCH AND DOCTORAL TRAINING (MAX. 4400 CHARACTERS WITH SPACES)

- Description of how the RC interacts with and contributes to the society (collaboration with public, private and/or 3rd sector).

Our interaction and contribution to the society is significant in several ways. We collaborate especially with the Ministry of Environment, taking part as expert members in several working groups dealing with national and international questions. We give statements for the private sector on species identification and their impacts for human activities and well being as well as estimate the impacts of large new construction and other development projects for the species and their habitats. We also work actively in co-operation with NGOs, such as amateur societies, interested in species and nature conservation. Furthermore, thousands of amateurs not belonging to any societies are interested in nature, species, and their biology and identification. The museum staff is in continuous touch with the public answering their questions by e-mail, phone and mail. Museum researchers have published a great variety of books, identification guides in particular, the latest of which (published, or to be published shortly) include those on aphids, polypores, lichens, slime molds, and arctic plants of the northern Finland for example. Many of these books are first of their kind published in Finnish and will provide easy access to the information that has been accumulated over decades (or even centuries) by the taxonomists working with our biological collections. The first Finnish textbook on systematics is also in preparation. Popular articles aimed to general public are published on regular basis in the major newspapers, and interviews are given to both TV and radio. Internet and digitized image archives have also opened up new valuable possibilities for our researchers to interaction with the general public.

- Ways to strengthen the societal impact of the RC's research and doctoral training.

Our challenge is to demonstrate and explain for the society at large the value of taxonomy and systematics that mostly cannot be directly translated into immediate monetary gains or applications. However, the global agreement (CBV) on significantly reducing the biodiversity loss by 2020 underlines the need for significantly more trained taxonomists. We need to point out the importance of our research and education of new specialists more in the light of wider societal context; nationally and internationally. This could be done by more active, jointly coordinated and planned communication of the meaning and use of our results. The target group should be especially the general public, via direct contacts and via different media as well. The museum has its own PR department that should be directed to assist more in these important activities. This internal resource, and its expertise, has not been used in its full potential in this important function.

4 INTERNATIONAL AND NATIONAL (INCL. INTERSECTORAL) RESEARCH COLLABORATION AND RESEARCHER MOBILITY (MAX. 4400 CHARACTERS WITH SPACES)

- Description of the RC's research collaborations and joint doctoral training activities and how the RC has promoted researcher mobility.

More than 100 collaborators from around the world participate in our research projects. This includes two intersectoral, 25 national and over 80 international collaborators. International collaborators come from several leading research institutions, such as American Museum of Natural History, Duke University, Harvard University, New York Botanical Garden, Smithsonian Institution, UC Berkeley, Lund University, Uppsala University, Gothenburg Botanical Gardens, University of Copenhagen, Freie Universität Berlin, National Museum of Scotland, The Natural History Museum (London), The Australian Insect Collection (CSIRO) and New Zealand Landcare Research Institute.





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In addition to the projects led by our researchers, we have contributed to numerous international projects and programs, such as Atlas Florae Europaeae, Assembling Tree of Life, Tree of Life, Fauna Europaea, Flora of Australia, Flora of the Guianas, Flora Neotropica, Flora Nordica, Global Plants Initiative, Nordic Lichen Flora, Species2000, Swedish Taxonomy Initiative, Fauna of United Arab Emirates, Global Freshwater Animal Diversity Assessment, and several major Russian–Finnish cooperative projects. We have also collaborated with several research institutions by participating in field expeditions, such as those to Australia, New Zealand, Iceland, Greenland, Newfoundland, Kyrgyzstan, Sakha Republic, Indonesia, Melanesia and Polynesia, especially New Caledonia.

FMNH has regular contacts with over 500 institutions through loans and exchange and this greatly promotes the availability and accumulation of valuable new material from around the globe. The annual number of borrowed specimens exceeds 15 000. In addition to this we have a very profitable collaboration with the amateur collector community. Our researchers have created contacts in doctoral co-supervision with four domestic and three foreign research institutions. Six co-supervised PhD theses (including those in other national or foreign institutions) have been completed during the evaluation period.

More than 70 foreign researchers and scholars visit FMNH annually to study our collections. They provide chances for new collaborative projects and publications. We have supported seven visiting scientists and students by designing collaborative projects and applying funding for the visits from CIMO (Centre for International Mobility). Our researchers have also promoted international mobility by participating in organizing and hosting meetings, such as NLF excursion 2007, EuroGard, and CETAF 2009. We have actively visited numerous domestic and foreign research institutions and participated in international congresses such as IMC, IAL, , GBIF, Global Botanic Gardens and Willi Hennig Society. The total of these visits is over 60. Our international activity have been funded by the Academy of Finland, Chancellor's Travel Grants, EU SYNTHESYS grants, Willi Hennig Society, and National Geographic Society, for instance.

- RC's strengths and challenges related to research collaboration and researcher mobility, and the actions planned for their development.

Our collections are frequently visited and we have active specimen exchange as loans and donations. Certain collections belong to the most significant in the world. We also hold other facilities, including valuable research library, TLC and molecular laboratories. We have strong expertise in several organism groups such as lichens, bryophytes, and insects directly correlating with the quality of these collections. To find a balance between specializing in our focus groups and maintaining expertise in others is delicate, especially with our limited resources. The potentially conflicting, time-consuming missions, such as curatorial duties, specimen digitization, and interaction with the society, and on the other hand pursuing high-level research activity and student training clearly need attention. Our research infrastructure provides first-class environment to host visiting scientists and with this kind of international co-operation we aim to increase number and quality of our publications, and provide opportunity for young systematists to develop their international collaboration.

#### 5 OPERATIONAL CONDITIONS (MAX. 4400 CHARACTERS WITH SPACES)

- Description of the operational conditions in the RC's research environment (e.g. research infrastructure, balance between research and teaching duties).

Our collections make the backbone of the research environment for the RC members, and their organization and replenishment with new material are closely intertwined with the research work. Our collections comprise over 13 M specimens, and in some groups they are rich in primary types.



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Collections are global in coverage with special strengths in certain geographical areas. During the evaluation period the zoological museum was renovated, causing translocation of the whole collection. This was a major project consuming a lot of time from the whole staff in zoology, including the PIs.

The museum is decently equipped for standard microscopy. Automated high-resolution specimen imaging systems are largely lacking. SEM and TEM are available as a core service in the Viikki biocampus. We aim to activate our own SEM facility but it has not yet been installed.

Facilities for molecular systematics are ensured by a triple strategy. This includes (1) a basic local DNA-laboratory (working space for ca. 10 persons); (2) the larger Molecular Ecology and Systematics laboratory (MES) in Viikki, which is jointly operated with the department, and has versatile equipment and sequencing/genotyping platforms, and also provides further access to the core facilities for next-generation sequencing; and (3) utilization of facilities at collaborating institutes within joint projects. For phylogenetic computing, we can use the parallel computing environment of the Finnish Center of Scientific Computing (CSC), as well as our own 20-node Unix cluster. The museum is also a member of the FinGrid national computational facility to ensure access to very large computing resources in the future. This CSC-led project got started in late 2010. It will be instrumental in answering the challenges we will face with bioinformatics during the coming years. FMNH is a national node of GBIF and BioCASE, and we are actively digitizing our collections with funding from the Ministry of Education and Culture and the US Mellon Foundation (GPI).

A majority of the PIs in the consortium hold curatorial positions at the museum. This ensures that ca. 50 % of time may be dedicated to research. The work in the museum is organized into teams, each responsible for a taxonomic sector, and each comprising research and technical positions. The teams in principle organize their work independently, which should allow flexible allocation of effort between curators, and e.g. enable those who obtain external funding to concentrate more on research. The positions also involve a modest teaching quota (ca. 5 %), which may involve courses or student supervision. The team organization is different from the PI-driven research group organization currently used in the university in general. The PIs with their research groups are embedded within museum teams, but often the research groups transcend team, and even institutional boundaries. The museum itself, while belonging to the university, does not grant degrees, and the graduate students are enrolled in the Faculty of Biological and Environmental Sciences (see above under 2). Most of the PIs are appointed docents (=adjunct professors) in the faculty, which entitles them to act as thesis supervisors and also to give lectures on topics of their choice.

- RC's strengths and challenges related to operational conditions, and the actions planned for their development.

Due to historical reasons the operations of our home units are physically dispersed around Helsinki. This is a practical challenge for large-scale collaboration and for build-up of an every-day research community. However it has not been considered a major problem. The strong association between the museum and Viikki biocenter is essential for maintaining the link to the student community, and the joint MES laboratory provides access to techniques that museum alone could not afford. Similar associations with other national museums should be explored more. While our large collections are an asset they also require constant special maintenance and large, expensive facilities are needed for their storage. The constant accumulation of specimens needs attention because our current facilities do not provide enough space. After the recent renovation of the Zoological Museum the new, additional building for the Botanical Museum will be a major undertaking during the coming years. At the same time the chronic lack of curatorial staff seriously hinders use of our large materials optimally.



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6 LEADERSHIP AND MANAGEMENT IN THE RESEARCHER COMMUNITY (MAX. 4400 CHARACTERS WITH SPACES)

- Description of the execution and processes of leadership in the RC, how the management-related responsibilities and roles are distributed in the RC and how the leadership- and management-related processes support high quality research, collaboration between principal investigators and other researchers in the RC, the RC's research focus and strengthening of the RC's know-how.

We can be identified with the research tradition of the museum while do not have clear history as an organized unit with specified leadership. Over the past years, the RC has comprised a core of botanical, mycological and zoological groups with collaboration on methodological and teaching-related issues. The core of the RC started in the early 90s by combining our taxonomic tradition with the recent theoretical advances in systematics. We arranged several seminars and courses that greatly benefitted from the leading experts as teachers (e.g. Farris, Giribet, Goloboff, Kluge, Lipscomb, Nixon, Wenzel, Wheeler). We aimed at strengthening the critical mass in Finland, and directing towards more analytical approaches. During the evaluation period, this type of training has continued with the courses and seminars provided by the faculty in collaboration with museum PIs and researchers.

The informal RC and the PI-run research organization are separate from, but strongly supported by the administrative organizations of the FMNH and the faculty, where the personnel are formally employed. A new administrative structure was adopted by 2010. The administrative reform hardly addressed the concerns regarding research raised in connection of the 2005 evaluation. The suggestion of a scientific director position was abandoned, and the zoology and botany unit director positions (previously at professor level) were changed to administrative positions. In the new statutes of the museum its definition as a "separate scientific institute" was changed to a mere "separate institute", while also the notion of systematics as a focal research branch was removed. An organization was adopted, which is based on teams assembled to take care of certain parts of collections, and comprising both the scientific/curatorial staff + their research groups, and the technical staff – in contrast to an alternative division to collection-related and research related teams. Several but not all leaders of the museum teams are PIs of the RC, and several teams comprise more than one PI and research groups.

The administrative structure in itself does not promote research. Nevertheless the new management comprises scientists who have motivation of supporting role for the research, and both the director of FMNH and the director of the zoology unit are members of the RC. The administrative role of management allows a more impartial and output-oriented attitude to the research. Targets for high-quality publications and quantitative goals for publication output are spelled out clearly, and the goals of striving for external funding as well. The PIs that lead both museum teams and research projects interact closely with both the administration and the technical staff. They can distribute different tasks efficiently in the teams so that they support research in optimal way, while they also follow the latest developments in scientific methodology and distribute this information to their students. The professor of cryptogam plant systematics of the department is a member of the RC, and one concrete way of co-operation is doctoral training.

- RC's strengths and challenges related to leadership and management, and the actions planned for developing the processes.

As a research environment the FMNH is unusual in harboring a high number of research positions with small teaching load. This is an opportunity but also a challenge, when competitive pressure for high-level output is not obvious. The new management is important in motivating the research personnel. The administrative model gives flexibility in allocating time depending on goals and resources at hand. The processes are being developed e.g. by educating the directors in management, collecting



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experiences of processes, and taking actions if needed. The PI-driven research concept was adopted in the museum later than elsewhere in the university and integration with the collection-based organization remains problematic. The RC, as here defined, does not yet exist as a formal unit that mentally binds together all its members. The challenge remains in establishment of a true interacting community. This will only come true by establishing common activities, such as regular research seminars, and monitoring of our own output as a unit parallel to that of the formal hierarchy of the museum.

#### 7 EXTERNAL COMPETITIVE FUNDING OF THE RC

- Listing of the RCs external competitive funding, where:
  - the funding decisions have been made during 1.1.2005-31.12.2010, and
  - the administrator of the funding is/has been the University of Helsinki
  
- Academy of Finland (AF) - total amount of funding (in euros) AF has decided to allocate to the RC members during 1.1.2005-31.12.2010: 2 620 000 €
  
- Finnish Funding Agency for Technology and Innovation (TEKES) - total amount of funding (in euros) TEKES has decided to allocate to the RC members during 1.1.2005-31.12.2010: 0
  
- European Union (EU) - total amount of funding (in euros) EU has decided to allocate to the RC members during 1.1.2005-31.12.2010: 180 000 €
  
- European Research Council (ERC) - total amount of funding (in euros) ERC has decided to allocate to the RC members during 1.1.2005-31.12.2010: 0
  
- International and national foundations – names of international and national foundations which have decided to allocate funding to the RC members during 1.1.2005-31.12.2010, and the amount of their funding (in euros).
  - names of the foundations: Andrew W. Mellon Foundation (US)
  - total amount of funding (in euros) from the above-mentioned foundations: 130 000 €
  
- Other international funding - names of other international funding organizations which have decided to allocate funding to the RC members during 1.1.2005-31.12.2010, and the amount of their funding (in euros).
  - names of the funding organizations: NA
  - total amount of funding (in euros) from the above-mentioned funding organizations: 0
  
- Other national funding (incl. EVO funding and Ministry of Education and Culture funded doctoral programme positions) - names of other national funding organizations which have decided to allocate funding to the RC members during 1.1.2005-31.12.2010, and the amount of their funding (in euros).
  - names of the funding organizations: Ministry of Environment; Centre for International Mobility (CIMO)
  - total amount of funding (in euros) from the above-mentioned funding organizations: 1 750 000 €



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8 RC'S STRATEGIC ACTION PLAN FOR 2011–2013 (MAX. 4400 CHARACTERS WITH SPACES)

- Description of the RC's future perspectives in respect to research and doctoral training.

No common strategy has been outlined, but roughly, two principal lines to develop the activities are considered: one related to enhancing the shared activities and identity of our research community, the other related to ensuring and strengthening the relationships of the individual groups and the RC to other institutions, to support us as part of the broader national and international research community.

Typically, systematic research is taxon-oriented, with scientific contacts more easily international. Nevertheless the RC is tied together by common methodology, institutional goals, and quest for disentangling the history of life. To create an interacting researcher-student community, the strategy would include promotion of common, open forums for scientific discussion, e.g. regular institutional and unit-based seminars and method-oriented workshops; to develop common student curricula; and to strive for broader local work-groups comprising several PIs to explore potential for methodological and mental synergy.

An immediate target for the near future is to create structure for the RC that provides better student "interface". This is fundamentally important for the future of the RC. To start with, the students themselves have started organizing their own co-operational activities in a semi-formal way, and institutional funds to support this have been allocated. In a next step, the PIs could to take a role to support this through seminar and training activities open for both students and the rest of RC. On the other hand, the FMNH Research and Teaching Steering Group has taken measures to start composing a more general curriculum comprising teaching and training of the students in the museum. Emphasis will be not only in the skills required for structural and molecular data handling, but also theoretical and analytical skills. We aim to educate people who are not only able to do systematics, but also understand what they are doing.

One clear weakness that can be seen in our research profile is the fact that external funding and students tend to concentrate in fewer groups than is desirable. One way to overcome this is to develop the professional skills and motivation of the so-far unfunded RC members to obtain external funding. For instance, in a recent institutional research development workshop, the FMNH set an ambitious goal to produce 1-2 major collaborative research applications and start one MSc-level project over the next year. The other way is to strive for a more interacting local community composed of broader and larger research groups, not exclusively clade-based. This should enable a more efficient use of common methodologies, share of methodological skills, and broader development of research questions. Such establishment of multi-researcher groups is also in line with the current funding policy of the Academy of Finland.

Bioinformatics is becoming a critical cornerstone for modern systematics as the molecular approaches develop and huge amounts of data become available. Sequencing entire genomes is already possible, even though not yet cost-effective; but genomic scale approaches will certainly enter the standards of systematics in near future. Some of us are working in close co-operation with people in the forefront of the field (e.g. Ward Wheeler in AMNH), and our involvement with the new CSC-led computing network FGI will ensure our access to the hardware needed. Recruiting a suitable person to start developing our own program in this field seems a desirable strategy. This question however has to be solved in a wider context in the museum; the roles of lead of the RC, of the research groups and of the management are not yet clear. Possibly it also can be approached in co-operation with other facilities, e.g. Institute of Biotechnology in Viikki.

The RC and the museum also should strengthen its position by external collaboration in other ways. We can develop our international collaboration still further by attracting leading specialists of the field to



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apply for visiting positions in the museum. This would be particularly fruitful to provide the most versatile training for our students. On the other hand we think that directors of the museum units (and not ourselves) have to strengthen our image as world-class research institute within the academic community and beyond.

9 SHORT DESCRIPTION OF HOW THE RC MEMBERS HAVE CONTRIBUTED TO THE COMPILATION OF THE STAGE 2 MATERIALS (MAX. 1100 CHARACTERS WITH SPACES).

The questions for compiling materials were divided among senior PIs of the RC so that 1-4 representative PIs per each of the participating units (zoology unit, botany unit, general administrative unit, and plant biology) were selected. These PIs participated in the early selection and design of materials and compiled a preliminary draft. They were also responsible for gathering specific information from all participating project/team members that are under their supervision. The compiled materials were then revised by the responsible person and circulated between all senior and junior PIs of the RC for in-depth revision. Critical issues were discussed, and final amendments were made by the person responsible for compiling the final version and submitting it for the evaluation.



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BIOSYST/Stenroos

**1 Analysis of publications**

- Associated person is one of Inkeri Ahonen, Teuvo Ahti , Asta Audzijonyte, Neil Bell , Olof Biström ,  
Maarten Christenhusz , Carmine Colacino, Mikhail Daniliya , Masoomeh  
Ghobad-Nejhad , Michael Hardman , Xiaolan He , Filip Högnabba ,  
Jaakko Hyvönen , Aino Juslén , Lauri Kaila , Hanna Lindgren , Mari Kekkonen ,  
Hanna Laakkonen , Nina Laurenne ,  
Yrki Muona , Leena Myllys , Raisa Nikula, Sinikka Piippo , Leif Schulman ,  
Alexander Sennikov , Pasi Sihvonen , Mohammad Sohrabi, Gunilla Ståhls ,  
Soili Stenroos , Marianna Teräväinen , Risto Väinölä ,  
Henry Väre , Saara Velmala , Pekka Vilkkamaa ,

Publication type	Publication year						Total Count 2005 - 2010
	2005	2006	2007	2008	2009	2010	
A1 Refereed journal article	35	50	45	40	49	68	287
A2 Review in scientific journal		1		1		2	4
A3 Contribution to book/other compilations (refereed)		20	12	16	14	10	72
A4 Article in conference publication (refereed)	1		2	4	1	4	12
B1 Unrefereed journal article	10	5	9	5	8	7	44
B2 Contribution to book/other compilations (non-refereed)	5	3		4	4		16
B3 Unrefereed article in conference proceedings						2	2
C1 Published scientific monograph	2		1	3	1	2	9
C2 Edited book, compilation, conference proceeding or special issue of journal	1	1	1	3	1	2	9
D1 Article in professional journal	6	3	3	1	2	13	28
D2 Article in professional hand or guide book or in a professional data system, or text book material				19	20		39
D5 Text book or professional handbook or guidebook or dictionary	2	1	1		1		5
E1 Popular article, newspaper article	17	11	14	5	21	5	73
E1 Popular contribution to book/other compilations	2		1	1		1	5
E2 Popular monograph	10	4	2	4	6		26
I2 ICT programs or applications	1						1



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## 2 Listing of publications

### A1 Refereed journal article

#### 2005

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RC-SPECIFIC TUHAT COMPILATIONS OF PUBLICATIONS DATA 2005-2010

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- Väre, H 2009, 'Tuomi tuoksuu', **Aarre : lehti metsästä.**, vol 2, no. 5, pp. 48-49.

**2010**

- Biström, O, Albrecht, A, Biström, G 2010, 'Smådjur utför stordåd', **RoHit : tidning för Rosala och Hitis med omnejd**, vol 8, pp. 58-59.
- Kailla, L 2010, 'Tieteestä kysymys: Tiede vastaa', **Helsingin Sanomat**, pp. D 4.





## INTERNATIONAL EVALUATION OF RESEARCH AND DOCTORAL TRAINING AT THE UNIVERSITY OF HELSINKI

### RC-SPECIFIC TUHAT COMPILATIONS OF PUBLICATIONS DATA 2005-2010

#### BIOSYST/Stenroos

Piippo, S 2010, 'Vatsa kuntoon kasveilla', **Koko perheen terveys**, vol 2010, no. 1, pp. 34-37.

Piippo, S 2010, 'Terveyttä marjoista ja mausteyhteistä', **Suomen Henkisen Kehityksen liitto ry. Jäsentiedote**, vol 2010, no. syksy, pp. 3-4.

Vilkamaa, P 2010, 'Harsosääski sukulaisineen mikroskoopin alla', **Luonnontieteellinen keskusmuseo**, no. 2008-2009, pp. 24-25.

#### E1 Popular contribution to book/other compilations

##### **2005**

Sihvonen, P 2005, 'Pääministerin lehtimittari', in K Mikkola, J Murtosaari, K Nissinen (eds), **Perhosten lumo. suomalainen perhostieto.**, Tammi, Helsinki, pp. 305.

Väinölä, R 2005, 'Eliöiden varhainen saapumishistoria: vain sitkeimmät menestyvät murtovedessä', in K Pajanen, M Soulanto, E Sikk (eds), **Suomenlahti. alkumerestä nykymereksi.**, [Rakennusalan kustantajat], Helsinki, pp. 20-27.

##### **2007**

Väinölä, R 2007, 'Läänemere elustiku ajalugu: vaid sitkemand on riimvees edukad', in K Pajanen, M Soulanto, E Sikk (eds), **Soome laht - uurgmerest tänaseni**, Eesti Loodusfoto, [Tartu], pp. 20-27.

##### **2008**

Väre, H 2008, 'Johan Leche kasvitieteilijänä', in A Perälä (ed.), **Löysin jotakin hauskaa = Jag hittade något trevligt. Andrew Erikssonin juhla kirja hänen täyttäänsä 50 vuotta maaliskuun 20. päivänä = festskrift till Andrew Eriksson på hans 50-årsdag den 20 mars.**, Tre bibliofiler, [Helsinki], pp. 146-157.

##### **2010**

Piippo, S 2010, 'Pohjolan marjojen ja kasvien terveysvaikutukset', **Hengen ja tiedon messut. messuesite.**, vol. 2010, pp. 20.

#### E2 Popular monograph

##### **2005**

Nummi, O (ed.), Biström, O, Hulden, L, Kullberg, J, Muona, J, Ståhls-Mäkelä, G, Terhivuo, J, Voutilainen, L, Talman, R, Teräväinen, M 2005, **Rohmut ja riesat: [tuhohyönteisten tunnistusopas]**, Suomen museoliiton julkaisuja, no. 55, Suomen museoliitto, Helsinki.

Piippo, S 2005, **Luonnon lääkeyrtit. 4.: Virtsatiet, sukupuolielimet, tukiranka, iho, silmät, malaria, syöpä**, vol. 4, Tammi, Helsinki.

Piippo, S 2005, **Luonnonyrtilt: villivihannekset ja marjat**, Lähde luontoon -sarja, WSOY, Helsinki.

Piippo, S 2005, **Lääkekasveista apua vaivoihin**, vol. 56.vuosikirja, Otava, Helsinki.

Piippo, S 2005, **Luonnon lääkeyrtit. 3.: Verenkiertoelimet, ruoansulatuselimet**, vol. 3, Tammi, Helsinki.

Schulman, L, Björkstén, J, Lipponen, V, Roine, E 2005, **Kasvitieteellinen puutarha: keidas keskellä Helsinkiä**, Helsingin yliopiston kasvitieteellinen puutarha, Helsinki.

Schulman, L, Björkstén, J, Lipponen, V, Roine, E 2005, **Botaniska trädgården: en oas i centrum av Helsingfors**, Helsingfors universitets botaniska trädgård, Helsingfors.

Schulman, L, Björkstén, J, Lipponen, V, Roine, E 2005, **Botanic Garden: an oasis in the centre of Helsinki**, Helsinki University Botanic Garden, Helsinki.

Valste, J (ed.), Albrecht, A, Halinen, A, Piirainen, M, Turunen, S, Kullberg, J, Muona, J, Pajunen, T, Silfverberg, H, Ståhls-Mäkelä, G, Terhivuo, J, Valovirta, I, Vitikainen, O, Vilkamaa, P, Väre, H 2005, **Suomen luontotieto**, vol. 1, A-Kar, Weilin + Göös, [Espoo].

Valste, J (ed.), Albrecht, A, Halinen, A, Piirainen, M, Turunen, S, Kullberg, J, Muona, J, Pajunen, T, Silfverberg, H, Ståhls-Mäkelä, G, Terhivuo, J, Valovirta, I, Vilkamaa, P, Vitikainen, O, Väre, H 2005, **Suomen luontotieto**, vol. 2, Kas-Mam, Weilin + Göös, [Espoo].

##### **2006**

Piippo, S, Salo, U 2006, **Mielen ja rakkauden kasvit**, WSOY, Helsinki.

Valste, J (ed.), Albrecht, A, Kullberg, J, Mikkola, K, Muona, J, Pajunen, T, Piirainen, M, Silfverberg, H, Ståhls-Mäkelä, G, Terhivuo, J, Valovirta, I, Vilkamaa, P, Vitikainen, O, Väre, H 2006, **Suomen luontotieto**, vol. 4, Rii-Ö, [WSOY], [Helsinki].

Valste, J (ed.), Albrecht, A, Halinen, A, Piirainen, M, Turunen, S, Kullberg, J, Muona, J, Pajunen, T, Silfverberg, H, Ståhls-Mäkelä, G, Terhivuo, J, Valovirta, I, Vilkamaa, P, Vitikainen, O, Väre, H 2006, **Suomen luontotieto**, vol. 3, Man-Rih, [WSOY].

Väre, H, Kiuru, H 2006, **Suomen puut ja pensaat**, Metsäkustannus, [Helsinki].



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RC-SPECIFIC TUHAT COMPILATIONS OF PUBLICATIONS DATA 2005-2010

BIOSYST/Stenroos

**2007**

Pulsa, A, Väre, H **2007**, *Suomen marjat luonnossa ja ruokapöydässä*, **Art House, Helsinki**.

Tran Minh, M, Laaka-Lindberg, S, Junikka, L, Alanko, P, Hinneri, S, Juslen, A, Piippo, S, Ryömä, R, Silvennoinen, L, Stenroos, S **2007**, *Lomakasvio: trooppisten koristekasvien tunnistusopas*, **Multikustannus, [Helsinki]**.

**2008**

Hutri, K, Kurtto, A, Piirainen, M, Niemelä, T, Väre, H **2008**, *Suomen luonto*, **Luonnontieteellinen museo, [Helsinki]**.

Piippo, S **2008**, *Kasvien salaiset voimat*, **Helmi, [Helsinki]**.

Piirainen, P, Schulman, L **2008**, *Keidas keskellä Helsinkiä: - yliopiston kasvitieteellisen puutarhan Kaisaniemen-kokoelmat, osa I*, **Ulmus / Helsingin yliopisto, Kasvitieteellinen puutarha, no. 9, Luonnontieteellinen keskusmuseo, Kasvitieteellinen puutarha, Helsinki**.

Piirainen, P, Schulman, L, Hällfors, M **2008**, *En oas i centrum av Helsingfors: universitetets botaniska trädgårds samlingar i Kaisaniemi*, **Ulmus, no. 9**, vol. Del 1, **Helsingfors universitet, Botaniska trädgården, Helsingfors**.

**2009**

Pelkonen, V, Saarenmaa, H, Laurene, N **2009**, *Luonnontieteellisten museokokoelmien digitointi: Strategia ja toimintasuunnitelma 2010-2015*, **Luonnontieteellinen keskusmuseo, Helsinki**.

Piirainen, M, Enroth, J, Vauras, R, Väre, H (eds) **2009**, *Luonnossa: Kasvit. 4*, **Luonnossa**, vol. [4], **Werner Söderström, [Helsinki]**.

Piirainen, M, Enroth, J, Vauras, R, Väre, H, Blomster, J (eds) **2009**, *Luonnossa: Kasvit. 3*, **Luonnossa**, vol. [3], **Werner Söderström, [Helsinki]**.

Schulman, L **2009**, *Salaatista sasabambuun: Kumpulan kasvitieteellisen puutarhan yleisopas*, **Ulmus, no. 10, Helsingin yliopisto, Kasvitieteellinen puutarha, Helsinki**.

Schulman, L **2009**, *From Cloudberry to Amur Cherry: Kumpula Botanic Garden*, **Ulmus, no. 12, University of Helsinki, Helsinki**.

Schulman, L **2009**, *Från lingonris till taigaros: Gumtåkt botaniska trädgård*, **Ulmus, no. 11, Helsingfors universitet, Botaniska trädgården, Helsingfors**.

**I2 ICT programs or applications**

**2005**

*T-Puska, tieteellisille puutarhoille suunniteltu kasvitietokanta, MS-Access*



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BIOSYST/Stenroos

**1 Analysis of activities 2005-2010**

- Associated person is one of Inkeri Ahonen, Teuvo Ahti , Asta Audzijonyte, Neil Bell , Olof Biström ,  
Maarten Christenhusz , Carmine Colacino, Mikhail Daniliya , Masoomeh  
Ghobad-Nejhad , Michael Hardman , Xiaolan He , Filip Högnabba ,  
Jaakko Hyvönen , Aino Juslén , Lauri Kaila , Hanna Lindgren , Mari Kekkonen ,  
Hanna Laakkonen , Nina Laurence ,  
Jyrki Muona , Leena Myllys , Raisa Nikula, Sinikka Piippo , Leif Schulman ,  
Alexander Sennikov , Pasi Sihvonen , Mohammad Sohrabi, Gunilla Ståhls ,  
Soili Stenroos , Marianna Teräväinen , Risto Väinölä ,  
Henry Väre , Saara Velmala , Pekka Vilkkamaa ,

Activity type	Count
Supervisor or co-supervisor of doctoral thesis	30
Prizes and awards	10
Editor of research journal	80
Peer review of manuscripts	248
Editor of communication journal	1
Editor of series	4
Editor of special theme number	3
Assessment of candidates for academic posts	5
Membership or other role in review committee	21
Membership or other role in research network	8
Membership or other role in national/international committee, council, board	121
Membership or other role in public Finnish or international organization	48
Membership or other role of body in private company/organisation	4
Other tasks of an expert in private sector	1
Participation in interview for written media	276
Participation in radio programme	73
Participation in TV programme	45
Participation in interview for web based media	6



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BIOSYST/Stenroos

## 2 Listing of activities 2005-2010

### Supervisor or co-supervisor of doctoral thesis

#### **Filip Högnabba ,**

Supervisor of PhD thesis (H. Lindgren), Filip Högnabba, 2010 → ..., Finland

#### **Jaakko Hyvönen ,**

Supervision of doctoral thesis, Jaakko Hyvönen, 01.01.2005 → 31.12.2005, South Africa

Supervision of doctoral thesis, Jaakko Hyvönen, 01.01.2005 → 31.12.2005, South Africa

Supervision of doctoral thesis, Jaakko Hyvönen, 01.01.2006 → 31.12.2006, Germany

Supervision of doctoral thesis, Jaakko Hyvönen, 01.01.2006 → 31.12.2006, Germany

Supervision of doctoral thesis, Jaakko Hyvönen, 01.01.2007 → 31.12.2007, Finland

Supervision of doctoral thesis, Jaakko Hyvönen, 01.01.2007 → 29.01.2007, Finland

Supervision of doctoral thesis, Jaakko Hyvönen, 01.01.2008 → 31.12.2008, Finland

#### **Leena Myllys ,**

Supervisor of PhD thesis (Samuli Lehtonen), Leena Myllys, 2004 → 2007

Supervisor of PhD thesis (Saara Velmala), Leena Myllys, 2008 → ...

Supervisor of PhD thesis (Hanna Lindgren), Leena Myllys, 2010 → ...

#### **Sinikka Piippo ,**

Väitöskirjatyön ohjaus, Sinikka Piippo, 2006

#### **Leif Schulman ,**

Supervision of doctoral thesis (Nelly Llerena), Leif Schulman, 2005 → ..., Finland

Supervision of doctoral thesis (Nunu Pesu), Leif Schulman, 2005 → 2008, Finland

Supervision of doctoral thesis (Leo Junikka), Leif Schulman, 2006 → ..., Finland

Supervision of doctoral thesis (Mari Miranto), Leif Schulman, 2006 → ..., Finland

Supervision of doctoral thesis (Outi Lähteenoja), Leif Schulman, 2007 → ..., Finland

Supervision of doctoral thesis (Teija Alanko), Leif Schulman, 2007 → ..., Finland

#### **Gunilla Ståhls ,**

Supervision of doctoral thesis, Gunilla Ståhls, 01.01.2005 → 31.12.2008, Spain

Supervision of doctoral thesis, Gunilla Ståhls, 2009 → ..., Netherlands

#### **Soili Stenroos ,**

Supervision of PhD thesis (A. Passo), Soili Stenroos, 2002 → 2010, Argentina

Supervision of doctoral thesis (F. Högnabba), Soili Stenroos, 2002 → 2007, Finland

Supervisor of PhD thesis (M. Christenhusz), Soili Stenroos, 2002 → 2007, Finland

Supervision of doctoral thesis (T. Laukka), Soili Stenroos, 2005 → ..., Finland

Supervision of doctoral thesis (A. Passo), Soili Stenroos, 2006 → 2010, Argentina

Supervision of doctoral thesis (N. Fedorenko), Soili Stenroos, 2006 → 2008, Ukraine

Supervisor of PhD thesis (M. Sohrabi), Soili Stenroos, 2008 → ..., Finland

#### **Risto Väinölä ,**

Supervision of PhD thesis (Asta Audzijonyte), Risto Väinölä, 2006, Finland

Supervision of PhD thesis (Raisa Nikula), Risto Väinölä, 2008, Finland

Supervision of PhD thesis (Hanna Laakkonen), Risto Väinölä, 2009 → ..., Finland



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BIOSYST/Stenroos

**Prizes and awards**

**Neil Bell ,**

Hattori Prize, Neil Bell, 2009

**Mikhail Daneliya ,**

poster presentation prize, Mikhail Daneliya, 2007, France

**Filip Högnabba ,**

Risto Tuomikoski award, Filip Högnabba, 2009, Finland

**Lauri Kaila ,**

Prize for the best Finnish lepidopterological study, Lauri Kaila, 2005

**Sinikka Piippo ,**

Tietokirjailijapalkinto, Sinikka Piippo, 2006 → ...

**Pasi Sihvonen ,**

Risto Tuomikoski prize: Taxonomist (systematic biology researcher) of the year 2007 in Finland, Pasi Sihvonen, 2007, Finland

**Mohammad Sohrabi**

Grant form Iranian General office of scholarship and Overseas students, Iran Ministry of Science, Research, and Technology, Mohammad Sohrabi, 2005 → 2009

International Student Gran, Mohammad Sohrabi, 17.10.2010

**Soili Stenroos ,**

Professor title, granted by the President of Finland, Soili Stenroos, 26.11.2010, Finland

Tuckermann Award for the best lichen paper in the Bryologist 2009, Soili Stenroos, 2010, United States

**Editor of research journal**

**Teuvo Ahti ,**

Karstenia, Teuvo Ahti, 01.01.2005 → 31.12.2005, Finland

Karstenia, Teuvo Ahti, 01.01.2005 → 31.12.2005, Finland

Mycosystema, Teuvo Ahti, 01.01.2005 → 31.12.2005, China

Mycotaxon, Teuvo Ahti, 01.01.2005 → 31.12.2005, United States

Nordic Lichen Flora, Teuvo Ahti, 01.01.2005 → 31.12.2005, Sweden

Sienilehti, Teuvo Ahti, 01.01.2005 → 31.12.2005, Finland

Taxon, Teuvo Ahti, 01.01.2005 → 31.12.2005, Austria

Annales Botanici Fennici, Teuvo Ahti, 01.01.2006 → 31.12.2006, Finland

Bibliotheca Lichenologica, Teuvo Ahti, 01.01.2006 → 31.12.2006, Germany

British Lichen Flora, Teuvo Ahti, 01.01.2006 → 31.12.2006, United Kingdom

Karstenia, Teuvo Ahti, 01.01.2006 → 31.12.2006, Finland

Karstenia, Teuvo Ahti, 01.01.2006 → 31.12.2006, Finland

Mycosystema, Teuvo Ahti, 01.01.2006 → 31.12.2006, China

Mycotaxon, Teuvo Ahti, 01.01.2006 → 31.12.2006, United States

Nordic Lichen Flora, Teuvo Ahti, 01.01.2006 → 31.12.2006, Sweden

Sienilehti, Teuvo Ahti, 01.01.2006 → 31.12.2006, Finland

Taxon, Teuvo Ahti, 01.01.2006 → 31.12.2006, Austria

The Bryologist, Teuvo Ahti, 01.01.2006 → 31.12.2006, United States

The Lichenologist, Teuvo Ahti, 01.01.2006 → 31.12.2006, United Kingdom



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Annales Botanici Fennici, Teuvo Ahti, 01.01.2007 → 31.12.2007, Finland  
Folia Cryptogamica Estonica, Teuvo Ahti, 01.01.2007 → 31.12.2007, Estonia  
Mycologia Balcanica, Teuvo Ahti, 01.01.2007 → 31.12.2007, Bulgaria  
Mycosystema, Teuvo Ahti, 01.01.2007 → 31.12.2007, China  
Mycotaxon, Teuvo Ahti, 01.01.2007 → 31.12.2007, United States  
Nordic Lichen Flora, Teuvo Ahti, 01.01.2007 → 31.12.2007, Sweden  
Polish Journal of Botany, Teuvo Ahti, 01.01.2007 → 31.12.2007, Poland  
The Lichenologist, Teuvo Ahti, 01.01.2007 → 31.12.2007, United Kingdom  
Bibliotheca Lichenologica, Teuvo Ahti, 01.01.2008 → 31.12.2008, Germany  
Herzogia, Teuvo Ahti, 01.01.2008 → 31.12.2008, Germany  
Mycosystema, Teuvo Ahti, 01.01.2008 → 31.12.2008, China  
Mycotaxon, Teuvo Ahti, 01.01.2008 → 31.12.2008, United States  
Nordic Lichen Flora, Teuvo Ahti, 01.01.2008 → 31.12.2008, Sweden  
Systematics and Biodiversity, Teuvo Ahti, 01.01.2008 → 31.12.2008, United Kingdom  
The Lichenologist, Teuvo Ahti, 01.01.2008 → 31.12.2008, United Kingdom

**Neil Bell ,**

Journal of Bryology: Scientific Editor for DNA & Phylogenetic Studies, Neil Bell, 08.04.2008 → ..., United Kingdom

**Maarten Christenhusz ,**

Phytotaxa, Maarten Christenhusz, 01.09.2009 → ..., New Zealand  
Botanical Journal of the Linnean Society, Maarten Christenhusz, 01.01.2010 → ..., United Kingdom

**Mikhail Daneliya ,**

Zootaxa, Mikhail Daneliya, 01.01.2007 → 31.12.2007, New Zealand

**Xiaolan He ,**

Annales Botanici Fennici, Xiaolan He, 01.01.2005 → 31.12.2005, Finland  
Annales Botanici Fennici, Xiaolan He, 01.01.2006 → 31.12.2006, Finland  
Fieldiana Botany, Xiaolan He, 01.01.2007 → 31.12.2007, United States  
Systematic Botany, Xiaolan He, 01.01.2008 → 31.12.2008

**Lauri Kaila ,**

Entomologica Fennica, Lauri Kaila, 01.01.2005 → 31.12.2010, Finland  
Sahlbergia, päätoimittaja, Lauri Kaila, 2005 → 2010

**Mari Kekkonen ,**

Entomologica Fennica, Mari Kekkonen, 2009 → 2011, Finland

**Jyrki Muona ,**

International Journal of Insect Systematics and Evolution, Jyrki Muona, 01.01.1991 → 31.12.2008, Denmark  
Entomologica Fennica, Jyrki Muona, 01.01.2004 → 31.12.2010  
Serbian Journal Entomology, Jyrki Muona, 01.01.2005 → 31.12.2010, Serbia  
Acta Entomologica Serbica, Jyrki Muona, 01.01.2006 → 31.12.2010, Serbia and Montenegro

**Sinikka Piippo ,**

Bryobrotherella, Sinikka Piippo, 1999 → 2010  
Bryobrothera, Sinikka Piippo, 01.01.2005 → 31.12.2005, Finland  
Bryobrotherella, Sinikka Piippo, 01.01.2005 → 31.12.2005



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BIOSYST/Stenroos

Bryobrothera, Sinikka Piippo, 01.01.2006 → 31.12.2006, Finland  
Bryobrotherella, Sinikka Piippo, 01.01.2006 → 31.12.2006, Finland  
Bryologist, Sinikka Piippo, 01.01.2006 → 31.12.2006, United States  
Lindbergia, Sinikka Piippo, 01.01.2006 → 31.12.2006  
Bryobrothera, Sinikka Piippo, 01.01.2007 → 31.12.2007, Finland  
Bryobrotherella, Sinikka Piippo, 01.01.2007 → 31.12.2007, Finland  
Chenia, Sinikka Piippo, 01.01.2007 → 31.12.2007  
Annales Botanici Fennici, Sinikka Piippo, 01.01.2008 → 31.12.2008, Finland  
Bryobrothera, Sinikka Piippo, 01.01.2008 → 31.12.2008, Finland  
Bryobrotherella, Sinikka Piippo, 01.01.2008 → 31.12.2008, Finland  
Chenia, Sinikka Piippo, 01.01.2008 → 31.12.2008

**Leif Schulman ,**

Luonnon Tutkija, Leif Schulman, 01.01.2005 → 31.12.2005, Finland  
Monographs in Systematic Botany from the Missouri Botanical Garden, Leif Schulman, 01.01.2005 → 31.12.2005, United States  
Plant Systematics and Evolution, Leif Schulman, 01.01.2005 → 31.12.2005, Germany  
Scripta Horti Botanici Universitatis Vytauti Magni, Leif Schulman, 2006 → 2008, Lithuania

**Alexander Sennikov ,**

Komarovia, Alexander Sennikov, 10.1999 → 12.2010, Russia  
Folia Geobotanica, Alexander Sennikov, 11.2007 → 09.2010, Czech Republic  
Nordic Journal of Botany, Alexander Sennikov, 10.2007 → ..., Sweden

**Marianna Teräväinen ,**

Editing and copy-editing entomological journal 'Sahlbergia', Marianna Teräväinen, 2008 → 2011

**Henry Väre ,**

Sorbifolia, Henry Väre, 01.01.2005 → 31.12.2005, Finland  
Sorbifolia, Henry Väre, 01.01.2006 → 31.12.2006, Finland  
Sorbifolia, Henry Väre, 01.01.2007 → 31.12.2007, Finland  
Sorbifolia, Henry Väre, 01.01.2008 → 31.12.2008, Finland  
Editor in chief: Memoranda Societas pro Fauna et Flora Fennica, Henry Väre, 01.01.2009 → ..., Finland

**Pekka Vilkkamaa ,**

Entomologica Fennica, Pekka Vilkkamaa, 01.01.2005 → 31.12.2005, Finland  
Entomologica Fennica, Pekka Vilkkamaa, 01.01.2006 → 31.12.2006, Finland  
Entomologica Fennica, Pekka Vilkkamaa, 01.01.2007 → 31.12.2007, Finland  
Entomologica Fennica, Pekka Vilkkamaa, 01.01.2008 → 31.12.2008, Finland

**Peer review of manuscripts**

**Teuvo Ahti ,**

Manuscript review for journal Acta Bryolichenologica Asiatica, Teuvo Ahti, 2010 → ...  
Manuscript review for journal Annales Botanici Fennici, Teuvo Ahti, 2010 → ...  
Manuscript review for journal Herzogia, Teuvo Ahti, 2010 → ...  
Manuscript review for journal Mycological Progress, Teuvo Ahti, 2010 → ...  
Manuscript review for journal Mycotaxon, Teuvo Ahti, 2010 → ...  
Manuscript review for journal Systematics and Biodiversity, Teuvo Ahti, 2010 → ...



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BIOSYST/Stenroos

Manuscript review for journal The Lichenologist, Teuvo Ahti, 2010 → ...

**Neil Bell ,**

Pleurocarpous Mosses: Systematics and Evolution, Neil Bell, 2005, United States

The Bryologist, Neil Bell, 2005, United States

Acta Bryolichenologia Asiatica, Neil Bell, 2006, Finland

Annales Botanici Fennici, Neil Bell, 2006, Finland

Taxon, Neil Bell, 2007, Austria

The Bryologist, Neil Bell, 2007, United States

American Journal of Botany, Neil Bell, 2008, United States

Taxon, Neil Bell, 2008, Austria

The Bryologist, Neil Bell, 2008, United States

Anales del Jardín Botánico de Madrid, Neil Bell, 2009, Spain

Journal of Bryology, Neil Bell, 2009, United Kingdom

Tropical Bryology, Neil Bell, 2010, Germany

**Olof Biström ,**

Deutsche Entomologisch Zeitschrift, Olof Biström, 05.07.1999 → ..., Germany

Aquatic Insects, Olof Biström, 31.01.2005, Netherlands

Aquatic Insects, Olof Biström, 12.07.2005, Netherlands

Aquatic Insects, Olof Biström, 22.11.2005, Netherlands

Entomologica Fennica, Olof Biström, 18.06.2005, Finland

Entomologica Fennica, Olof Biström, 07.11.2005, Finland

Asiatarkastus: Suomen lantakuoriaiset - sukellus lehmäläjään, Olof Biström, 22.03.2006, Finland

Entomologica Fennica, Olof Biström, 02.03.2006, Finland

Entomologica Fennica, Olof Biström, 26.07.2006, Finland

Aquatic Insects, Olof Biström, 27.01.2007, Netherlands

Zootaxa, Olof Biström, 10.01.2008, New Zealand

Zootaxa, Olof Biström, 09.12.2008, New Zealand

Acta Entomologica Musei Nationalis Pragae, Olof Biström, 26.01.2009, Czech Republic

Zootaxa, Olof Biström, 30.04.2009, New Zealand

Zootaxa, Olof Biström, 31.08.2009, New Zealand

ZooKeys, Olof Biström, 20.12.2010, Bulgaria

Zootaxa, Olof Biström, 27.09.2010, New Zealand

**Mikhail Daneliya ,**

Limnologica, Mikhail Daneliya, 2007, Germany

Limnologica, Mikhail Daneliya, 01.01.2007 → 31.12.2007, Germany

Zootaxa, Mikhail Daneliya, 2007, New Zealand

Zootaxa, Mikhail Daneliya, 2008, New Zealand

Zootaxa, Mikhail Daneliya, 01.01.2008 → 31.12.2008, New Zealand

Zootaxa, Mikhail Daneliya, 09.2009

Zootaxa, Mikhail Daneliya, 02.2009

Zootaxa, Mikhail Daneliya, 2009





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BIOSYST/Stenroos

Zootaxa, Mikhail Daneliya, 01.2010  
Zootaxa, Mikhail Daneliya, 02.2010  
Zootaxa, Mikhail Daneliya, 05.2010  
Zootaxa, Mikhail Daneliya, 15.11.2010 → 05.12.2010  
Zootaxa, Mikhail Daneliya, 09.12.2010 → 30.12.2010

**Masoomeh Ghobad-Nejhad ,**

Manuscript review for journal Rostaniha, Masoomeh Ghobad-Nejhad, 2008  
Manuscript review for journal Rostaniha, Masoomeh Ghobad-Nejhad, 2009

**Michael Hardman ,**

Aquatic Living Resources, Michael Hardman, 2010  
Cybium, Michael Hardman, 2010

**Filip Högnabba ,**

Manuscript review for Bibliotheca Lichenologica, Filip Högnabba, 2006, Germany  
Manuscript review for the journal Cladistics, Filip Högnabba, 2006, United States  
Manuscript review for the journal Herzogia, Filip Högnabba, 2008, Austria  
Manuscript review for Bibliotheca Lichenologica, Filip Högnabba, 02.2009 → 03.2009, Germany  
Manuscript review for Bibliotheca Lichenologica, Filip Högnabba, 09.2009 → 10.2009, Germany  
Manuscript review for the journal Australian Systematic Botany, Filip Högnabba, 2010, Australia  
Manuscript review for the journal Botanica Lithuanica, Filip Högnabba, 2010, Lithuania

**Jaakko Hyvönen ,**

BRYOLOGIST, Jaakko Hyvönen, 30.05.2005  
CLADISTICS, Jaakko Hyvönen, 21.09.2005  
TAXON, Jaakko Hyvönen, 22.09.2005  
JOURNAL OF THE HATTORI BOTANICAL LABORATORY, Jaakko Hyvönen, 28.01.2006, Japan  
BRYOLOGIST, Jaakko Hyvönen, 25.12.2007, United States  
CLADISTICS, Jaakko Hyvönen, 25.09.2007, United States  
PLANT SYSTEMATICS AND EVOLUTION, Jaakko Hyvönen, 08.02.2007, Austria  
FIELDIANA, Jaakko Hyvönen, 22.01.2008, United States  
Cryptogamie, Bryologie, Jaakko Hyvönen, 11.10.2009, France  
A case study of DNA barcoding in Chinese Grimmiaceae and a moss recorded in China for the first time, Jaakko Hyvönen, 11.03.2010

**Lauri Kaila ,**

reviewer, Lauri Kaila, 2005, Sweden  
reviewer, Lauri Kaila, 2005, United States  
reviewer, Lauri Kaila, 2005, Switzerland  
reviewer, Lauri Kaila, 2005, United States  
reviewer, Lauri Kaila, 2005, Netherlands  
reviewer, Lauri Kaila, 2006, Canada  
reviewer, Lauri Kaila, 2006, United States  
reviewer, Lauri Kaila, 2006, Australia  
reviewer, Lauri Kaila, 2006, United Kingdom  
reviewer, Lauri Kaila, 2006, Czech Republic



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reviewer, Lauri Kaila, 2006, Japan  
reviewer, Lauri Kaila, 2006, New Zealand  
reviewer, Lauri Kaila, 2006, United Kingdom  
reviewer, Lauri Kaila, 2007, Czech Republic  
reviewer, Lauri Kaila, 2007, United States  
reviewer, Lauri Kaila, 2007, Japan  
reviewer, Lauri Kaila, 2007, Finland  
reviewer, Lauri Kaila, 2007, New Zealand  
reviewer, Lauri Kaila, 2007, United Kingdom  
reviewer, Lauri Kaila, 2008, Finland  
reviewer, Lauri Kaila, 2008, United Kingdom  
reviewer, Lauri Kaila, 2008, New Zealand  
reviewer, Lauri Kaila, 2008, Turkey  
reviewer, Lauri Kaila, 2008, United Kingdom  
reviewer, Lauri Kaila, 2008, Czech Republic  
reviewer, Lauri Kaila, 2008, Japan  
reviewer, Lauri Kaila, 2009, United Kingdom  
reviewer, Lauri Kaila, 2009, United States  
reviewer, Lauri Kaila, 2009, United States  
reviewer, Lauri Kaila, 2009, Germany  
reviewer, Lauri Kaila, 2009, Netherlands  
reviewer, Lauri Kaila, 2009, New Zealand  
reviewer, Lauri Kaila, 2009, Netherlands  
reviewer, Lauri Kaila, 2009, Netherlands  
reviewer, Lauri Kaila, 2010, United Kingdom  
reviewer, Lauri Kaila, 2010, Sweden  
reviewer, Lauri Kaila, 2010, Sweden  
reviewer, Lauri Kaila, 2010, New Zealand

**Jyrki Muona ,**

Annales of the New York Entomological Society, Jyrki Muona, 01.01.1999 → 31.12.2010, United States  
Cladistics, Jyrki Muona, 01.01.2002 → 31.12.2010, United States  
Annales Zoologici Fennici, Jyrki Muona, 01.01.2004 → 31.12.2006, Finland  
Canadian Entomologist, Jyrki Muona, 01.01.2004 → 31.12.2007, Canada

**Leena Myllys ,**

Lichenologist, Leena Myllys, 01.05.2006 → 31.12.2006, United Kingdom  
Journal of Phycology, Leena Myllys, 01.01.2007 → 31.12.2007, United States  
Lichenologist, Leena Myllys, 01.01.2008 → 31.12.2008, United Kingdom  
Manuscript review for the journal Brittonia, Leena Myllys, 2010 → ..., United States  
Manuscript review for the journal Molecular Ecology, Leena Myllys, 2010 → ...

**Leif Schulman ,**

1 MS review, Luonnon Tutkija, Leif Schulman, 2005



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- 1 MS review, Monographs in SYstematic Botany from the Missouri Botanical Garden, Leif Schulman, 2005
- 1 MS review, Plant Systematics and Evolution, Leif Schulman, 2005
- 1 MS review, Cladistics, Leif Schulman, 2006, United Kingdom
- 1 MS review, Novon, Leif Schulman, 01.01.2007 → 31.12.2007, United States
- 1 MS review, Diversity and Distributions, Leif Schulman, 2008
- 1 MS review, Journal of Biogeography, Leif Schulman, 2008, United Kingdom
- 2 MS reviews, Annales Botanic Fennici, Leif Schulman, 2008, Finland
- 1 MS review, Journal of Biogeography, Leif Schulman, 2009
- 1 MS review, Luonnon Tutkija, Leif Schulman, 2009
- 15 abstract reviews, EuroGardV, Leif Schulman, 2009
- 3 MS reviews, Biodiversity and Conservation, Leif Schulman, 2009
- 1 MS review, Biodiversity and Conservation, Leif Schulman, 2010
- 1 MS review, Nordic Journal of Botany, Leif Schulman, 2010

**Alexander Sennikov ,**

- Annales Botanic Fennici, Alexander Sennikov, 10.2006, Finland
- Botanical Journal, Alexander Sennikov, 05.2006, Russia
- Bulletin of Moscow Society of Naturalists, Alexander Sennikov, 11.2006, Russia
- Annales Botanic Fennici, Alexander Sennikov, 01.2007 → 11.2007, Finland
- Bulletin of Moscow Society of Naturalists, Alexander Sennikov, 11.2007, Russia
- Nordic Journal of Botany, Alexander Sennikov, 10.2007 → 12.2007, Sweden
- Annales Botanic Fennici, Alexander Sennikov, 10.2008 → 11.2008, Finland
- Nordic Journal of Botany, Alexander Sennikov, 01.2008 → 12.2008, Sweden
- Annales Botanic Fennici, Alexander Sennikov, 11.2009 → 12.2009, Finland
- Biodiversity and Conservation, Alexander Sennikov, 09.2009
- Nordic Journal of Botany, Alexander Sennikov, 01.2009 → 12.2009, Sweden
- Biodiversity and Conservation, Alexander Sennikov, 09.11.2010
- Feddes Repertorium, Alexander Sennikov, 05.2010 → 12.2010, Germany
- Nordic Journal of Botany, Alexander Sennikov, 01.2010 → 12.2010, Sweden
- Taxon, Alexander Sennikov, 23.10.2010, Austria
- Willdenowia, Alexander Sennikov, 11.02.2010

**Pasi Sihvonen ,**

- Reviewer for Entomologica Fennica, Pasi Sihvonen, 2005
- Reviewer for Zootaxa, Pasi Sihvonen, 2006
- Reviewer for Biological Journal of the Linnean Society, Pasi Sihvonen, 2007
- Reviewer for Nota lepidopterologica, Pasi Sihvonen, 2007
- Reviewer for Turkish Journal of Entomology, Pasi Sihvonen, 2007
- Reviewer for Zoologica Scripta, Pasi Sihvonen, 2007
- Reviewer for Zootaxa, Pasi Sihvonen, 2007
- Reviewer for European Journal of Entomology, Pasi Sihvonen, 2008
- Reviewer for Nota lepidopterologica, Pasi Sihvonen, 2008
- Reviewer for Turkish Journal of Entomology, Pasi Sihvonen, 2008



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BIOSYST/Stenroos

Reviewer for Zootaxa, Pasi Sihvonen, 2008

Reviewer for European Journal of Entomology, Pasi Sihvonen, 2009

Reviewer for Nota lepidopterologica, Pasi Sihvonen, 2009

Reviewer for Zootaxa, Pasi Sihvonen, 2009

Reviewer for Nota lepidopterologica, Pasi Sihvonen, 2010

**Gunilla Ståhls ,**

European Journal of Entomology, Gunilla Ståhls, 01.07.2005, Czech Republic

Micron, Gunilla Ståhls, 10.03.2005, United Kingdom

Zoological Journal of the Linnean Society, Gunilla Ståhls, 20.08.2005, United Kingdom

Conservation Genetics, Gunilla Ståhls, 15.08.2006, Netherlands

Fiji Arthropods, Gunilla Ståhls, 14.06.2006, Fiji

Zoologica Scripta, Gunilla Ståhls, 30.11.2006, Sweden

Fiji Arthropods, Gunilla Ståhls, 15.09.2007, Australia

Sahlbergia, Gunilla Ståhls, 03.03.2007, Finland

Entomologica Fennica, Gunilla Ståhls, 02.12.2008, Finland

Molecular Ecology Resources, Gunilla Ståhls, 06.03.2008, United States

Norwegian Journal of Entomology, Gunilla Ståhls, 20.04.2008, Norway

Zoological Journal of the Linnean Society, Gunilla Ståhls, 03.06.2008, United Kingdom

Zoological Science, Gunilla Ståhls, 30.05.2008, Japan

Zootaxa, Gunilla Ståhls, 09.09.2008, Australia

Zootaxa, Gunilla Ståhls, 05.03.2008, Australia

Contributions for Zoology, Gunilla Ståhls, 04.02.2009, Japan

Invertebrate Systematics, Gunilla Ståhls, 03.03.2009, Australia

Molecular Phylogenetics and Evolution, Gunilla Ståhls, 13.10.2009, United States

Annales de la Société Entomologique de France, Gunilla Ståhls, 29.01.2010, France

Norwegian Journal of Entomology, Gunilla Ståhls, 2010

**Soili Stenroos ,**

Manuscript review for the journal Canadian Journal of Botany, Soili Stenroos, 2005, Canada

Manuscript review for the journal Cladistics, Soili Stenroos, 2005, United States

Manuscript review for the journal Molecular Phylogenetics and Evolution, Soili Stenroos, 2005, United States

Manuscript review for the journal Lichenologist, Soili Stenroos, 2006, United Kingdom

Manuscript review for the journal Molecular Phylogenetics and Evolution, Soili Stenroos, 2006, United States

Manuscript review for the journal Mycotaxon, Soili Stenroos, 2006, United States

Manuscript review for the journal American Journal of Botany, Soili Stenroos, 2008, United States

Manuscript review for the journal Bryologist, Soili Stenroos, 2009, United States

Manuscript review for the journal Lichenologist, Soili Stenroos, 2009, United Kingdom

Manuscript review for the journal Mycotaxon, Soili Stenroos, 2010, United States

**Risto Väinölä ,**

Annales Zoologici Fennici, Risto Väinölä, 01.01.2005, Finland

Crustaceana, Risto Väinölä, 2005, Netherlands

Estuarine Shelf and Coastal Science, Risto Väinölä, 01.01.2005, Netherlands



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BIOSYST/Stenroos

Marine Biology, Risto Väinölä, 01.01.2005, Germany  
Marine Ecology Progress Series, Risto Väinölä, 01.01.2005, Germany  
Marine and Freshwater Research, Risto Väinölä, 01.01.2005, Australia  
Molecular Ecology, Risto Väinölä, 01.01.2005, United Kingdom  
Molecular Phylogenetics and Evolution, Risto Väinölä, 2005, United States  
Canadian Journal of Fisheries and Aquatic Sciences, Risto Väinölä, 01.01.2006, Canada  
Crustaceana, Risto Väinölä, 01.01.2006, Netherlands  
Hydrobiologia, Risto Väinölä, 01.01.2006, Belgium  
Marine Ecology Progress Series, Risto Väinölä, 01.01.2006, Germany  
Molecular Ecology, peer review, Risto Väinölä, 01.01.2006, United Kingdom  
Zoologica Scripta, Risto Väinölä, 01.01.2006, Norway  
BMC Evolutionary Biology, Risto Väinölä, 01.01.2007, United States  
Freshwater Biology, Risto Väinölä, 01.01.2007, United Kingdom  
Journal of Sea Research, Risto Väinölä, 01.01.2007, Netherlands  
Molecular Ecology, Risto Väinölä, 01.01.2007, United Kingdom  
Current Zoology, peer review, Risto Väinölä, 01.01.2008, China  
Hereditas, peer review, Risto Väinölä, 2008, Sweden  
Heredity, peer review, Risto Väinölä, 01.01.2008, United Kingdom  
Marine Biology, peer review, Risto Väinölä, 01.01.2008, Germany  
Marine Ecology Progress Series, peer review, Risto Väinölä, 01.01.2008, Germany  
Molecular Ecology, peer review, Risto Väinölä, 2008, United Kingdom  
Zoologica Scripta, peer review, Risto Väinölä, 01.01.2008, Norway  
Hydrobiologia, peer review, Risto Väinölä, 2009  
Journal of Crustacean Biology, peer review, Risto Väinölä, 01.01.2009, United States  
Marine Biology, peer review, Risto Väinölä, 2009, Germany  
Marine Ecology Progress Series, peer review, Risto Väinölä, 01.01.2009, Germany  
Molecular Ecology, peer review, Risto Väinölä, 2009, United Kingdom  
Ambio, peer review, Risto Väinölä, 2010, Sweden  
Biological Invasions, peer review, Risto Väinölä, 2010  
Genetica, peer review, Risto Väinölä, 2010, Netherlands  
Hydrobiologia special issue, peer review, Risto Väinölä, 2010  
Hydrobiologia, peer review, Risto Väinölä, 2010  
Marine Biology, peer review, Risto Väinölä, 2010, Germany  
Molecular Ecology, peer review, Risto Väinölä, 2010, United Kingdom  
Zoologica Scripta, peer review, Risto Väinölä, 2010

**Henry Väre ,**

Annales Botanici Fennici, Henry Väre, 01.01.2005 → 31.12.2005, Finland  
Annales of Botany, Henry Väre, 01.01.2006 → 31.12.2006, Germany  
Luonnon Tutkija, Henry Väre, 01.01.2006 → 31.12.2006, Finland  
Nordic Journal of Botany, Henry Väre, 01.01.2008 → 31.12.2008  
Silva Fennica, Henry Väre, 01.01.2008 → 31.12.2008



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BIOSYST/Stenroos

Taxon, Henry Väre, 01.01.2008 → 31.12.2008

Biodiversity and Conservation, Henry Väre, 01.09.2010 → 15.09.2010

Ecological Indicators, Henry Väre, 01.11.2010 → 15.11.2010

Silva Fennica, Henry Väre, 01.10.2010 → 15.10.2010

**Pekka Viikamaa ,**

Zootaxa, Pekka Viikamaa, 01.01.2005 → 31.12.2010, New Zealand

African Invertebrates, Pekka Viikamaa, 01.01.2006 → 31.12.2007, South Africa

Zootaxa, Pekka Viikamaa, 11.03.2006 → 31.12.2006, United States

African Invertebrates, Pekka Viikamaa, 29.08.2007 → 31.12.2007, South Africa

Biologia, Pekka Viikamaa, 19.02.2007 → 31.12.2007, Slovakia

Occ. Papers Bishop Museum, Pekka Viikamaa, 25.05.2007 → 31.12.2007, United States

W-album, Pekka Viikamaa, 09.04.2008, Finland

Memoranda Societas Fauna Flora Fennica, Pekka Viikamaa, 16.12.2009, Finland

Zookeys, Pekka Viikamaa, 13.04.2010, United States

**Editor of communication journal**

**Henry Väre ,**

Editor in chief, Sorbifolia, Henry Väre, 01.01.2001 → ..., Finland

**Editor of series**

**Lauri Kaila ,**

Baptia, tieteellinen toimittaja, Lauri Kaila, 1995 → 2010

toimituskunnan jäsen, Lauri Kaila, 01.01.2005 → 31.12.2010

**Leif Schulman ,**

Editor-in-Chief, Ulmus (occasional series of Helsinki University Botanic Garden), Leif Schulman, 02.2001 → ...

**Pekka Viikamaa ,**

Entomologica Fennica, Pekka Viikamaa, 01.06.2004 → 31.12.2010, Finland

**Editor of special theme number**

**Maarten Christenhusz ,**

Book editor of: Linear sequence, classification, synonymy, and bibliography of vascular plants: Lycophytes, ferns, gymnosperms and angiosperms, Maarten Christenhusz, 2010 → 18.02.2011, New Zealand

**Leif Schulman ,**

Guest Editor, Biodiversity and Conservation SI "EuroGardV", Leif Schulman, 07.2009 → 31.12.2010

**Risto Väinölä ,**

Hydrobiologia, special volume 615, Risto Väinölä, 01.01.2008, Belgium

**Assessment of candidates for academic posts**

**Olof Biström ,**

Dosentti: Pätevyyden arviointi, Olof Biström, 15.10.2008, Finland

**Jaakko Hyvönen ,**

AMERICAN MUSEUM OF NATURAL HISTORY, Jaakko Hyvönen, 10.04.2006, United States

assessment of candidate for academic post, Jaakko Hyvönen, 13.09.2006, Germany

**Gunilla Ståhls ,**



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BIOSYST/Stenroos

Assessment of candidates, associate professor in invertebrate systematics, Gunilla Ståhls, 02.05.2006, Norway

**Risto Väinölä ,**

Assessment of docentship, Risto Väinölä, 2008, Finland

**Membership or other role in review committee**

**Olof Biström ,**

Arviointipanelin jäsen: Kolmen museon pilottiarviointi, Olof Biström, 2006, Finland

Arviointipanelin jäsen: Hållbar förvaltning av biologisk mångfald, Olof Biström, 2007, Sweden

Arviointipanelin jäsen: Stöd till planering av EU-projekt, Olof Biström, 08.03.2007, Sweden

Arviointipanelin jäsen: Työväenmuseo Verstaan arviointi, Olof Biström, 08.05.2008, Finland

Arviointipanelin jäsen: Det Norske Artsprosjektet, Olof Biström, 15.08.2009 → 16.11.2009, Norway

Arviointipanelin jäsen: Tampereen museon arviointi, Olof Biström, 23.11.2009, Finland

Arviointipanelin jäsen: Det Norske Artsprosjektet, Olof Biström, 10.08.2010 → 07.10.2010, Norway

Arviointipanelin jäsen: Stöd till naturhistoriska museer i Sverige, Olof Biström, 01.07.2010 → 26.10.2010, Sweden

**Jaakko Hyvönen ,**

NATIONAL GEOGRAPHIC SOCIETY, Jaakko Hyvönen, 07.03.2007, United States

review of grant application, Jaakko Hyvönen, 21.02.2010, Austria

**Leena Myllys ,**

German Science Foundation; Emmy Noether Programme, Leena Myllys, 01.01.2005 → 31.12.2005, Germany

Austrian Science Fund, Leena Myllys, 01.01.2008 → 31.12.2008, Austria

**Gunilla Ståhls ,**

Membership in review committee, Gunilla Ståhls, 2009 → ..., Norway

Svenska Artprojektetes vetenskapliga kommitte, Gunilla Ståhls, 2009 → ..., Sweden

PhD committee of H. Lindgren, Gunilla Ståhls, 2010 → ..., Finland

**Risto Väinölä ,**

NWO grant review, Risto Väinölä, 2006, Netherlands

Funding reviews University of Helsinki, Risto Väinölä, 2007, Finland

NordForsk grant review, Risto Väinölä, 2007

Funding reviews University of Helsinki, Risto Väinölä, 2008, Finland

ESF (European Science Foundation) pool of reviewers, Risto Väinölä, 2009 → 2010

DFG grant review, Risto Väinölä, 2010, Germany

**Membership or other role in research network**

**Jaakko Hyvönen ,**

SYNTHESES/THE NATIONAL HISTORY MUSEUM, LONDON, Jaakko Hyvönen, 09.09.2005, United Kingdom

**Alexander Sennikov ,**

Euro+Med PlantBase: Asteraceae in Russia, Alexander Sennikov, 01.2006 → 12.2006, Germany

Euro+Med PlantBase: Hieracium and Pilosella in Russia, Alexander Sennikov, 01.2007 → 12.2007, Germany

International Cichorieae Network, Alexander Sennikov, 04.2007 → ..., Germany

**Risto Väinölä ,**

SIAL Speciation in Ancient Lakes, Risto Väinölä, 2002 → 2009

CORONA (Coordination of Research on the North Atlantic), Risto Väinölä, 2004 → 2006



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FADA (Freshwater Animal Diversity Assessment), Risto Väinölä, 2005 → ..., Belgium

MOLARCH (multinational ESF research consortium), Risto Väinölä, 2006 → 2009

**Membership or other role in national/international committee, council, board**

**Teuvo Ahti ,**

International Association for Plant Taxonomy, Teuvo Ahti, 01.01.2005 → 31.12.2005, Austria

International Association for Plant Taxonomy; Stipendikomitea, Teuvo Ahti, 01.01.2005 → 31.12.2005, Austria

XVII International Botanical Congress, Nomenclature Section; Helsingin yliopiston Kasvimuseon edustaja, Teuvo Ahti, 12.07.2005 → 16.07.2005, Austria

**Olof Biström ,**

Helsingin hyönteistieteellinen yhdistys, Olof Biström, 1999 → 2011, Finland

Vetenskapliga Komittéen, Olof Biström, 01.07.2003 → 31.12.2008, Sweden

Synthesys, BE-TAF (Belgian jaos): Asiantuntija, Olof Biström, 2004 → 31.12.2005, Belgium

Stöd till EU projekt -haku. FORMAS, Olof Biström, 01.01.2007 → 31.12.2007, Sweden

**Maarten Christenhusz ,**

Fellow of the Linnean Society, Maarten Christenhusz, 01.11.2009 → ..., United Kingdom

**Masoomeh Ghobad-Nejhad ,**

Membership, British Mycological Society, since 2006, Masoomeh Ghobad-Nejhad, 2006 → ...

Membership, International Association for Plant Taxonomy (IAPT), since 2006, Masoomeh Ghobad-Nejhad, 2006 → ...

Membership, American Mycological Society, since 2008, Masoomeh Ghobad-Nejhad, 2008 → ..., United States

**Xiaolan He ,**

Finnish Bryological Society, Xiaolan He, 01.01.2007 → 31.12.2007, Finland

Suomen sammalseura, Xiaolan He, 2007 → 31.07.2010, Finland

Suomen ympäristökeskus, Xiaolan He, 2007 → 2010

Suomen Sammalseura (Finnish Bryological Society), Xiaolan He, 01.01.2008 → 31.12.2008, Finland

**Filip Högnabba ,**

Nordic Lichen Society, Chair, Filip Högnabba, 07.2005 → 07.2009

Oy Vanha Ylioppilastalo Ab, Member of the board, Filip Högnabba, 2007, Finland

Societas pro Fauna et Flora Fennica, Secretary, Filip Högnabba, 13.05.2008 → ..., Finland

**Jaakko Hyvönen ,**

RESEARCH COUNCIL OF NORWAY, Jaakko Hyvönen, 01.01.2005 → 31.12.2005, Norway

RESEARCH COUNCIL OF NORWAY, Jaakko Hyvönen, 01.01.2006 → 31.12.2006, Norway

TIETEELLISTEN SEURAIN VALTUUSKUNNAN JULKAISUKESKUKSEN JOHTOKUNTA, Jaakko Hyvönen, 11.04.2006 → 31.12.2006, Finland

IETEELLISTEN SEURAIN VALTUUSKUNNAN JULKAISUKESKUKSEN JOHTOKUNTA, Jaakko Hyvönen, 01.01.2007 → 31.12.2007, Finland

RESEARCH COUNCIL OF NORWAY, Jaakko Hyvönen, 01.01.2007 → 31.12.2007, Norway

RESEARCH COUNCIL OF NORWAY, Jaakko Hyvönen, 01.01.2008 → 31.12.2008, Norway

TIETEELLISTEN SEURAIN VALTUUSKUNNAN JULKAISUKESKUKSEN JOHTOKUNTA, Jaakko Hyvönen, 01.01.2008 → 31.12.2008, Finland

research council of Norway, Jaakko Hyvönen, 01.01.2009 → 31.12.2009, Norway

Tieteellisten seurain valtuuskunnan julkaisukeskuksen johtokunnan jäsenyys, Jaakko Hyvönen, 01.01.2010 → 31.12.2010, Finland

expert member, Jaakko Hyvönen, 01.01.2010 → 31.12.2010, Norway





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#### BIOSYST/Stenroos

##### **Aino Juslén ,**

Member: Suomen Sammalseura ry. hallitus - Board of the Finnish Bryological Society, Aino Juslén, 01.01.2001 → 31.12.2007, Finland

Secretary: Suomen sammalseura ry.- Finnish Bryological Society, Aino Juslén, 01.01.2005 → 31.12.2007, Finland

Member: Ympäristöministeriön kansainvälisten biodiversiteettiasioiden asiantuntijatyöryhmä, Aino Juslén, 2007 → 2010, Finland

##### **Lauri Kaila ,**

Entomologica Fennica ry:n valtuuskunnan jäsenyys, Lauri Kaila, 1995 → 2010

##### **Jyrki Muona ,**

Ministry of Environment Endangered Species Expert group, Jyrki Muona, 01.01.1984 → 31.12.2010, Finland

The International Willi Hennig Society, Jyrki Muona, 01.01.2004 → 31.12.2006, United States

Finnish Entomological Society, Jyrki Muona, 01.01.2005 → 31.12.2010, Finland

Finnish Numismatic Society, Jyrki Muona, 01.01.2005 → 31.12.2010, Finland

The International Willi Hennig Society, Jyrki Muona, 01.01.2007 → 31.12.2007, United States

The International Willi Hennig Society, Jyrki Muona, 01.01.2008 → 31.12.2010, United States

##### **Leena Myllys ,**

Nordisk Lichenologisk Förening, Leena Myllys, 01.01.2005 → 31.12.2005

Nordisk Lichenologisk Förening, Leena Myllys, 01.01.2006 → 31.12.2006

Nordisk Lichenologisk Förening (NLF), Leena Myllys, 01.01.2007 → 31.12.2007

Member of Nordic Lichen Society Board, Leena Myllys, 2009 → ...

Member of collections steering group (kokoelmaohjausryhmä), Leena Myllys, 2009 → ...

##### **Sinikka Piippo ,**

International Union of Biological Sciences, Suomen kansallinen komitea, Sinikka Piippo, 01.01.2005 → 31.12.2005

Puheenjohtaja, Sinikka Piippo, 2005 → 2010

Varapuheenjohtaja, Sinikka Piippo, 2005 → 2010

International Union of Biological Sciences, Suomen kansallinen komitea, Sinikka Piippo, 01.01.2006 → 31.12.2006, Finland

Suomen Sammalseura, Sinikka Piippo, 01.01.2006 → 31.12.2006, Finland

Suomen Sammalseura, Sinikka Piippo, 01.01.2007 → 31.12.2007, Finland

Suomen Sammalseura, Sinikka Piippo, 01.01.2008 → 31.12.2008, Finland

##### **Leif Schulman ,**

Deputy Member, Plant Variety Board of Finland, expert on garden plants, Leif Schulman, 01.01.2004 → 31.12.2007, Finland

Member of Kumpula Campus Committee, Leif Schulman, 2004 → 2009, Finland

Member of the European Botanic Gardens Consortium, Leif Schulman, 2005 → ..., Finland

Vice Chair, Consultative Committee of the Korkeasaari Zoo (City of Helsinki), Leif Schulman, 2005 → ..., Finland

Invited expert, working group for the development of the Korkeasaari Zoo, Leif Schulman, 01.01.2006 → 31.12.2007, Finland

Member of Commission, Professor Risto Tuomikoski Fund for Biological Taxonomy., Leif Schulman, 2006 → ..., Finland

Invited expert (ex situ conservation and conservation of genetic resources), development project of nature conservation, Leif Schulman, 2007 → 2008, Finland

Member of Steering Committee of the planning process of the general plan for the Kaisaniemi Park, City of Helsinki City Planning Department, Leif Schulman, 01.01.2007 → 31.12.2007, Finland

Invited Standing Expert in Steering Committee of the preparation of a national strategy and action plan on invasive alien species, Leif Schulman, 2008 → 2100, Finland

Member of working group on land plants for the preparation of a national strategy and action plan on invasive alien species, Leif Schulman, 2008 → 2009, Finland

Governing Board of GBIF, Head of Delegation (Finland), Leif Schulman, 03.2010 → ...



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#### BIOSYST/Stenroos

Member of Follow-up Group, National Digital Library, Leif Schulman, 03.2010 → 31.12.2011, Finland

Member of Steering Group, National workplan on species conservation, Leif Schulman, 2010 → 2011, Finland

Member, working group on the promotion of the realisation and follow-up of Finland's biodiversity strategy and action plan 2006-2016 (Ministry of the Environment), Leif Schulman, 03.2010 → ..., Finland

#### **Alexander Sennikov ,**

The Committee for Mapping the Flora of Europe, Alexander Sennikov, 03.2006 → ..., Finland

International Association for Plant Taxonomy, Alexander Sennikov, 10.2007 → ..., Austria

#### **Pasi Sihvonen ,**

European Research Council, NCP Finland, EC FP7, Pasi Sihvonen, 2007, Belgium

Peer-reviewer of research proposals for Estonian Science Council, Pasi Sihvonen, 2008, Estonia

Scientific expert Fauna Europaea, EC FP6 internet database, Pasi Sihvonen, 2009

European Research Council, Ideas programme committee member, EC FP7, Pasi Sihvonen, 2010, Belgium

#### **Gunilla Ståhls ,**

Entomologiska föreningen i Helsingfors r.f., Gunilla Ståhls, 1999 → ..., Finland

Styrelsen för Nätö biologiska station, Gunilla Ståhls, 01.01.2003 → ..., Finland

Suomen Diptera-työryhmä, Gunilla Ståhls, 01.01.2004 → ..., Finland

Luonnontieteellinen keskusmuseo: tutkimuksen ja opetuksen ohjausryhmä, Gunilla Ståhls, 2009 → ..., Finland

Annales Zoologici Fennici, Gunilla Ståhls, 01.01.2010 → ..., Finland

#### **Soili Stenroos ,**

Finnish Museum of Natural History: Steering group of research and teaching, Soili Stenroos, 2009 → ..., Finland

Digitisation Centre, committee member, Soili Stenroos, 2010 → ...

Finnish Museum of Natural History, member of board, Soili Stenroos, 2010 → ..., Finland

The Federation of Finnish Learned Societies: Publication Forum Project, panel member, Soili Stenroos, 2010 → ...

#### **Risto Väinölä ,**

VELMU (Baltic Sea diversity national inventory), project group, Risto Väinölä, 2004 → 2005, Finland

VELMU (Baltic Sea diversity national inventory), stakeholder group, Risto Väinölä, 2007 → 2010, Finland

FMNH Board, deputy member, Risto Väinölä, 2009 → 2010

FMNH Board member, Risto Väinölä, 2010 → 2014

#### **Henry Väre ,**

Atlas Florae Europaeae, Regional committee member, Henry Väre, 01.01.1998 → ..., Finland

Conservation of Arctic Flora and Fauna (CAFF), Flora Group, Henry Väre, 01.01.2000 → ..., Iceland

Finnish Dendrological Society, Henry Väre, 01.01.2000 → ..., Finland

Conservation of Arctic Flora and Fauna (CAFF), Henry Väre, 01.01.2005 → 31.12.2005, United States

Dendrologian Seura, Henry Väre, 01.01.2005 → 31.12.2005, Finland

Flora Nordica, Henry Väre, 01.01.2005 → 31.12.2005, Sweden

Societas pro Fauna et Flora Fennica, Henry Väre, 01.01.2005 → 31.12.2005, Finland

Suomen puutarhakasvien nimistötoimikunta, Henry Väre, 01.01.2005 → 31.12.2005, Finland

The Committee for Mapping the Flora of Europe; Finnish consultative committee, Henry Väre, 01.01.2005 → 31.12.2005, Finland

The World Conservation Union, Species Survival Commission, Henry Väre, 01.01.2005 → 31.12.2005, United Kingdom

Tieteellisen seuran hallituksen jäsen: Societas pro Fauna et Flora Fennica, Henry Väre, 01.01.2005 → ..., Finland

Conservation of Arctic Flora and Fauna (CAFF), Henry Väre, 01.01.2006 → 31.12.2006, United States

Dendrologian Seura, Henry Väre, 01.01.2006 → 31.12.2006, Finland



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#### BIOSYST/Stenroos

Flora Nordica, Henry Väre, 01.01.2006 → 31.12.2006, Sweden  
Societas pro Fauna et Flora Fennica, Henry Väre, 01.01.2006 → 31.12.2006, Finland  
Suomen puutarhakasvien nimistötoimikunta, Henry Väre, 01.01.2006 → 31.12.2006, Finland  
The Committee for Mapping the Flora of Europe; Finnish Consultative Committee, Henry Väre, 01.01.2006 → 31.12.2006, Finland  
The World Conservation Union; Species Survival Commission, Henry Väre, 01.01.2006 → 31.12.2006, United Kingdom  
Conservation of Arctic Flora and Fauna (CAFF), Henry Väre, 01.01.2007 → 31.12.2007, United States  
Dendrologian Seura, Henry Väre, 01.01.2007 → 31.12.2007, Finland  
Flora Nordica, Henry Väre, 01.01.2007 → 31.12.2007, Sweden  
Planta Europa, Henry Väre, 01.01.2007 → 31.12.2007, United Kingdom  
Planta Europea, Henry Väre, 01.01.2007 → ..., United Kingdom  
Societas pro Fauna et Flora Fennica, Henry Väre, 01.01.2007 → 31.12.2007, Finland  
Suomen puutarhakasvien nimistötoimikunta, Henry Väre, 01.01.2007 → 31.12.2007, Finland  
The Committee for Mapping the Flora of Europe; Finnish Consultative Committee, Henry Väre, 01.01.2007 → 31.12.2007, Finland  
The World Conservation Union; Species Survival Commission, Henry Väre, 01.01.2007 → 31.12.2007, United Kingdom  
Conservation of Arctic Flora and Fauna (CAFF), Henry Väre, 01.01.2008 → 31.12.2008, United States  
Dendrologian Seura, varapuheenjohtaja, Henry Väre, 01.01.2008 → 31.12.2008, Finland  
Flora Nordica, Pohjoismainen kasvio, Henry Väre, 01.01.2008 → 31.12.2008, Sweden  
Planta Europa, Henry Väre, 01.01.2008 → 31.12.2008, United Kingdom  
Societas pro Fauna et Flora Fennica, Henry Väre, 01.01.2008 → 31.12.2008, Finland  
Suomen Sienseura, tilintarkastaja, Henry Väre, 01.01.2008 → 31.12.2008, Finland  
Suomen puutarhakasvien nimistötoimikunta, Henry Väre, 01.01.2008 → 31.12.2008, Finland  
The Committee for Mapping the Flora of Europe; Finnish Consultative Committee, Henry Väre, 01.01.2008 → 31.12.2008, Finland  
The World Conservation Union; Species Survival Commission, Henry Väre, 01.01.2008 → 31.12.2008, United Kingdom  
Finnish naturetypes, Henry Väre, 01.01.2009 → ..., Finland  
Annales Botanici Fennici, Henry Väre, 01.01.2010 → ..., Finland

#### Membership or other role in public Finnish or international organization

##### **Neil Bell ,**

American Bryological and Lichenological Society (membership), Neil Bell, 01.01.2000 → ..., United States  
British Bryological Society (member), Neil Bell, 01.01.2000 → ..., United Kingdom  
American Society of Plant Taxonomists (membership), Neil Bell, 01.01.2004 → ..., United States  
Society of Systematic Biologists (member), Neil Bell, 01.01.2004 → 31.12.2010, United States  
International Association for Plant Taxonomy (member), Neil Bell, 01.01.2005 → ..., Austria  
Botanical Society of America (membership), Neil Bell, 01.01.2009 → ..., United States

##### **Olof Biström ,**

Biologian sensori. Ylioppilastutkinto, Olof Biström, 1993 → ..., Finland  
CITES -sopimus. Tieteellinen viranomainen (eläimet), Olof Biström, 1997 → ..., Finland  
Opetusministeriön ja Museoviraston käynnistämä hanke: Kohti museotoiminnan arviointia ja museopoliittista toimintaohjelmaa; Kokoelmien ja kartuttaminen ja tallentaminen -työryhmän jäsen, Olof Biström, 30.08.2005 → 31.12.2005, Finland  
Työryhmän jäsen: Kohti museotoiminnan arviointia ja museopoliittista toimintaohjelmaa, Olof Biström, 30.08.2005 → 31.12.2005, Finland  
Museovirasto ja Opetusministeriö, Museoiden ulkoisen arvioinnin pilottikierron 2006, Olof Biström, 01.01.2006 → 31.12.2006, Finland

##### **Filip Högnabba ,**



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#### BIOSYST/Stenroos

Student Union of the University of Helsinki, HYY, Member of the economy committee, Filip Högnabba, 2006, Finland

Working group on the monitoring of threatened lichens in Finland, Chair, Filip Högnabba, 2007 → ..., Finland

#### **Aino Juslén ,**

Board member: Finnish Museum of Natural History, Aino Juslén, 2009 → 2010, Finland

#### **Jyrki Muona ,**

Scientific Society, Jyrki Muona, 01.01.1972 → 31.12.2010, Finland

Graduate school, Jyrki Muona, 01.06.1994 → 31.12.2010, Finland

Scientific Society, Jyrki Muona, 01.01.2001 → 31.12.2010, Finland

Neuvottelukunta, Jyrki Muona, 01.11.2006 → 31.12.2010, Finland

The Finnish Government Delegation, Jyrki Muona, 16.03.2006 → 26.03.2006, Brazil

Finnish Museum of natural History, Jyrki Muona, 01.11.2008 → 31.12.2010, Finland

Finnish Museum of Natural History, Jyrki Muona, 01.01.2009 → 31.12.2010, Finland

Digitointikeskuksen ESR-EAKR ohjausryhmä, Jyrki Muona, 13.11.2010 → 12.12.2012, Finland

#### **Leena Myllys ,**

Helsingin yliopisto, laatutyöryhmä, Leena Myllys, 01.01.2007 → 31.12.2007, Finland

Luonnontieteellinen keskusmuseo, laatutyöryhmä, Leena Myllys, 01.01.2007 → 31.12.2007, Finland

Luonnontieteellinen keskusmuseo, strategiatyöryhmä, Leena Myllys, 01.01.2007 → 31.12.2007, Finland

Luonnontieteellinen keskusmuseo; strategiatyöryhmä, Leena Myllys, 01.01.2008 → 31.12.2008, Finland

#### **Sinikka Piippo ,**

Risto Tuomikosken biologisen taksonomian rahasto, Sinikka Piippo, 01.01.2005 → 31.12.2005, Finland

Suomalais-kiinalainen kasvitieteen säätiö, varapuheenjohtaja, Sinikka Piippo, 01.01.2006 → 31.12.2006

Suomen uhanalaiset sammalet työryhmä, Sinikka Piippo, 2008 → 2010

Ympäristöhallinnon valtakunnallinen Sammalyöryhmä, Sinikka Piippo, 01.01.2008 → 31.12.2008, Finland

#### **Pasi Sihvonen ,**

Peer-reviewer of research proposals for Estonian Science Council, Pasi Sihvonen, 2007, Estonia

#### **Gunilla Ståhls ,**

Studentexamensnämnden, Gunilla Ståhls, 01.01.2000 → ..., Finland

#### **Henry Väre ,**

Lausunto Maa- ja metsätalousministeriön pyynnöstä: Arboretumeiden valtionapujen jakamisesta, Henry Väre, 01.01.2005 → 31.12.2005, Finland

Lausunto Suomen ympäristökeskuksen pyynnöstä: Luontoinventojien sertifiointiselvitys (Söderman, Tarja 2004: Suomen ympäristökeskuksen moniste 309), Henry Väre, 01.01.2005 → 31.12.2005, Finland

Lausunto Ympäristöministeriön pyynnöstä: Biodiversiteetin tilan valtakunnallisen seurannan järjestäminen, osa II erityisseurannat, Henry Väre, 01.01.2005 → 31.12.2005, Finland

Maa- ja metsätalousministeriön kasvilajikelautakunta, Henry Väre, 01.01.2005 → 31.12.2005, Finland

Maa- ja metsätalousministeriö, Arboretumeiden valtionapujen jakaminen, lausunto, Henry Väre, 01.01.2006 → 31.12.2006, Finland

Maa- ja metsätalousministeriön kasvilajikelautakunta, Henry Väre, 01.01.2006 → 31.12.2006, Finland

Suomen ympäristökeskus, Luontoinventojien sertifiointiselvitys, lausunto, Henry Väre, 01.01.2006 → 31.12.2006, Finland

Ympäristöministeriö, Biodiversiteetin tilan valtakunnallisen seurannan järjestäminen, osa II erityisseurannat, lausunto, Henry Väre, 01.01.2006 → 31.12.2006, Finland

Maa- ja metsätalousministeriön kasvilajikelautakunta, Henry Väre, 01.01.2007 → 31.12.2007, Finland

Suomen luonnon monimuotoisuuden suojelun ja kestävän käytön kansallisen strategian ja toimintaohjelman 2006–2016, Henry Väre, 01.01.2007 → ..., Finland



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Ympäristöministeriö, Suomen luonnon monimuotoisuuden suojelun ja kestäväen käytön kansallisen strategian ja toimintaohjelman 2006-2016 toteutusta ja seurainta edistävä työryhmä, Henry Väre, 01.01.2007 → 31.12.2007, Finland

Maa- ja metsätalousministeriö; kasvilajikelautakunta, Henry Väre, 01.01.2008 → 31.12.2008, Finland

Ympäristöministeriö; Suomen luonnon monimuotoisuuden suojelun ja kestäväen käytön kansallisen strategian ja toimintaohjelman 2006-2016 toteutusta ja seurainta edistävä työryhmä, Henry Väre, 01.01.2008 → 31.12.2008, Finland

Ympäristöministeriö; lausunto Etelä-Suomen metsien monimuotoisuuden toimintaohjelmasta 2008-2016 METSO2, Henry Väre, 01.01.2008 → 31.12.2008, Finland

Invasive species working group, Henry Väre, 01.01.2009 → ..., Finland

Viikin tiedekirjaston digitointihankkeen ohjausryhmä, Henry Väre, 01.01.2009 → ..., Finland

#### **Membership or other role of body in private company/organisation**

##### **Aino Juslén ,**

Membership: Suomen Partiolaiset ry. viestintävaliokunta, Aino Juslén, 01.01.2005 → 31.01.2008, Finland

##### **Leena Myllys ,**

Helsingin yliopiston naistutkijoiden järjestö, Leena Myllys, 01.01.2006 → 31.12.2006, United Kingdom

Helsingin tutkijanaiset, Leena Myllys, 01.01.2007 → 31.12.2007, Finland

##### **Henry Väre ,**

Nomenclature committee of Finnish garden plans, Henry Väre, 01.01.1995 → ..., Finland

#### **Other tasks of an expert in private sector**

##### **Leif Schulman ,**

Solicited expert commentary by a private enterprise, Leif Schulman, 20.02.2005, Sweden

#### **Participation in interview for written media**

##### **Teuvo Ahti ,**

lehtihaastattelu, Partiolehti, Teuvo Ahti, 01.11.2006 → 31.12.2011, Russia

sanomalehtihaastattelu, Teuvo Ahti, 11.09.2007 → 31.12.2011, Sweden

##### **Olof Biström ,**

Lehtihaastattelu, Olof Biström, 21.06.2005, Finland

Lehtihaastattelu, Olof Biström, 28.04.2005, Finland

Lehtihaastattelu, Olof Biström, 22.06.2005, Finland

Lehtihaastattelu, Olof Biström, 12.07.2005, Finland

Lehtihaastattelu, Olof Biström, 15.08.2005, Finland

Lehtihaastattelu, Olof Biström, 15.08.2005, Finland

Lehtihaastattelu, Olof Biström, 16.08.2005, Finland

Lehtihaastattelu, Olof Biström, 24.08.2005, Finland

Lehtihaastattelu, Olof Biström, 05.12.2005, Finland

Lehtihaastattelu, Olof Biström, 14.12.2005, Finland

Lehtihaastattelu, Olof Biström, 21.06.2006, Finland

Lehtihaastattelu, Olof Biström, 29.06.2006, Finland

Lehtihaastattelu, Olof Biström, 24.07.2006, Finland

Lehtihaastattelu, Olof Biström, 18.08.2006, Finland

Lehtihaastattelu, Olof Biström, 22.08.2006, Finland

Lehtihaastattelu, Olof Biström, 12.09.2006, Finland



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BIOSYST/Stenroos

Lehtihaastattelu, Olof Biström, 12.09.2006, Finland  
Lehtihaastattelu, Olof Biström, 19.09.2006, Finland  
Lehtihaastattelu, Olof Biström, 19.09.2006, Finland  
Lehtihaastattelu, Olof Biström, 01.12.2006, Finland  
Lehtihaastattelu, Olof Biström, 26.05.2007, Norway  
Lehtihaastattelu, Olof Biström, 10.01.2007, Finland  
Lehtihaastattelu, Olof Biström, 08.02.2007, Finland  
Lehtihaastattelu, Olof Biström, 22.06.2007  
Lehtihaastattelu, Olof Biström, 14.08.2007, Finland  
Lehtihaastattelu, Olof Biström, 16.08.2007, Finland  
Lehtihaastattelu, Olof Biström, 27.08.2007, Finland  
Lehtihaastattelu, Olof Biström, 28.08.2007, Finland  
Lehtihaastattelu, Olof Biström, 01.10.2007, Finland  
Lehtihaastattelu, Olof Biström, 18.02.2008, Finland  
Lehtihaastattelu, Olof Biström, 26.02.2008, Finland  
Lehtihaastattelu, Olof Biström, 18.06.2008  
Lehtihaastattelu, Olof Biström, 19.08.2008, Finland  
Lehtihaastattelu, Olof Biström, 19.08.2008, Finland  
Lehtihaastattelu, Olof Biström, 25.08.2008, Finland  
Lehtihaastattelu, Olof Biström, 09.09.2008, Finland  
Lehdistötiedotehaastattelu, Olof Biström, 03.08.2010, Finland  
Lehtihaastattelu, Olof Biström, 10.05.2010, Finland  
Lehtihaastattelu, Olof Biström, 29.04.2010, Finland  
Lehtihaastattelu, Olof Biström, 19.07.2010  
Lehtihaastattelu, Olof Biström, 02.08.2010, Finland  
Lehtihaastattelu, Olof Biström, 03.08.2010  
Lehtihaastattelu, Olof Biström, 05.08.2010, Finland  
Lehtihaastattelu, Olof Biström, 23.08.2010, Finland

**Maarten Christenhusz ,**

Hottentotilijor och pandaöron, Maarten Christenhusz, 09.2009, Finland

**Xiaolan He ,**

(He-Nygrén, X., Ahonen, I., Juslén, A., Glenny, D. & Pliippo, S.), posteri, Kasvitieteen Kevät Kaisaniemessä, Kasvimuseon Avoimet Ovet -yleisötapahtuma, Xiaolan He, 14.05.2004 → 31.12.2011, Germany

My favorite things, Xiaolan He, 19.12.2008 → ...

lehtihaastattelu, Yliopistolainen 10/2008, Xiaolan He, 19.12.2008 → 31.12.2011, Finland

**Filip Högnabba ,**

Newspaper interview, Filip Högnabba, 07.04.2007, Finland

Newspaper interview, Filip Högnabba, 15.04.2007, Finland

**Jaakko Hyvönen ,**

Luonto Museossa, Museoliiton seminaari, Jaakko Hyvönen, 15.10.2003 → 31.12.2011, United States

**Aino Juslén ,**

Interview: SixDegrees 7/2007, Aino Juslén, 2007, Finland



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BIOSYST/Stenroos

Interview: 60°North 1/2008, Aino Juslén, 2008, Finland  
Interview: Finlands Natur 1/2008, Aino Juslén, 2008, Finland  
Interview: Kansan Uutiset, Aino Juslén, 17.01.2008, Finland  
Interview: Maaseudun Tulevaisuus, Aino Juslén, 18.01.2008, Finland  
Interview: Metsälehti, Aino Juslén, 31.01.2008, Finland  
Interview: STT, Aino Juslén, 11.05.2009, Finland  
Interview: Helsingin Sanomat, Aino Juslén, 30.10.2010, Finland  
Interview: Kymen Sanomat, Aino Juslén, 18.01.2010, Finland  
Interview: Maaseudun Tulevaisuus, Aino Juslén, 10.11.2010  
Interview: Maaseudun Tulevaisuus, Aino Juslén, 24.02.2010, Finland  
Interview: Suomen Luonto, Aino Juslén, 2010, Finland  
Interview: Ympäristökasvatus-lehti, Aino Juslén, 2010, Finland

**Lauri Kaila ,**

Helsingin Sanomat, Lauri Kaila, 01.01.2002 → 31.12.2011, Finland  
Savon Sanomat, Lauri Kaila, 01.01.2002 → 31.12.2011, Finland  
sanomalehtihaastattelu, Lauri Kaila, 19.06.2006 → 31.12.2011, Australia  
sanomalehtihaastattelu, Lauri Kaila, 06.09.2006 → 31.12.2011, Australia  
sanomalehtihaastattelu, Lauri Kaila, 09.09.2006, Australia  
sanomalehtihaastattelu, Lauri Kaila, 09.09.2006, Australia  
Haastattelu aikakauslehteen, Lauri Kaila, 03.08.2007, United Kingdom  
Kuhmoisten sanomat, etusivuhaastattelu värikuvin, Lauri Kaila, 21.03.2007, United Kingdom  
Nelosen uutiset, Lauri Kaila, 01.08.2007, United Kingdom  
sanomalehtihaastattelu, Lauri Kaila, 02.08.2007, United Kingdom  
Sanomalehtihaastattelu, Lauri Kaila, 2010  
Sanomalehtihaastattelu, Lauri Kaila, 2010

**Jyrki Muona ,**

Tuohyönteispäivä, Jyrki Muona, 01.01.2000 → 31.12.2011, Finland  
Lehti: HYMY, Jyrki Muona, 01.05.2008 → 31.05.2008, Finland  
Yleisöretki, Jyrki Muona, 10.09.2008, Finland  
Lehti: Suomen Luonto, Jyrki Muona, 15.09.2010

**Leena Myllys ,**

lehtihaastattelu, Yliopistolainen, Leena Myllys, 01.01.2006 → 31.12.2011, United Kingdom

**Sinikka Piippo ,**

Akuutti - ajankohtaista terveydestä, Sinikka Piippo, 01.01.1999 → 31.12.2011, Finland  
Avoin yliopisto, Seinäjoki, Sinikka Piippo, 01.05.1999 → 31.12.2011, Finland  
Vogelin terveydenhoitoviesti, Sinikka Piippo, 01.01.1999 → 31.12.2011, Finland  
Suomen intiaaniyhdistys, Sinikka Piippo, 09.03.2003 → 31.12.2011, Finland  
(He-Nygrén, X., Ahonen, I., Juslén, A., Glenny, D. & Piippo, S.), poster, Kasvitieteen Kevät Kaisaniemessä, Kasvimuseon Avoimet Ovet -yleisötapahtuma, Sinikka Piippo, 14.05.2004 → 31.12.2011, Finland  
esitelmä, Helsingin aikuisopiston Studia Generalia, Sinikka Piippo, 28.10.2004 → 31.12.2011, Finland  
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Apteekkireissulla luonnossa, Sinikka Piippo, 2005



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esitelmä, Kainuun luonnontuotefestivaali Kantarellista kanervaan, Joukokylä, Sinikka Piippo, 13.08.2005 → 31.12.2011, Finland  
esitelmä, Studia Generalia, Sinikka Piippo, 10.05.2005 → 31.12.2011, Finland  
lehtihaastattelu, Vihreä Lanka, Sinikka Piippo, 01.01.2005 → 31.12.2011, Finland  
Kasveista hyvä mieli ja muisti, Sinikka Piippo, 2006  
Kasvien henkinen puoli, Sinikka Piippo, 2006  
Kasvien vaikutus mieleen, Sinikka Piippo, 2006  
Luonnossa on kaikki lääkkeet, Sinikka Piippo, 2006  
esitelmä, Itsehoitomessut, Sinikka Piippo, 01.01.2006 → 31.12.2011, Finland  
esitelmä, Minä olen -messut, Sinikka Piippo, 01.01.2006 → 31.12.2011, Finland  
esitelmä, Rajatiedon keskus, Sinikka Piippo, 01.01.2006 → 31.12.2011, Finland  
lehtihaastattelu, ET-lehti, Sinikka Piippo, 01.01.2006 → 31.12.2011, Finland  
lehtihaastattelu, Minä olen -lehti, Sinikka Piippo, 01.01.2006 → 31.12.2011, Finland  
lehtihaastattelu, Suomen perinteisen kiinalaisen lääketieteen yhdistyksen jäsenlehti, Sinikka Piippo, 01.01.2006 → 31.12.2011, Finland  
50 vinkkiä terveyteen, Sinikka Piippo, 2007  
Ikää pidentävät kasvit, Sinikka Piippo, 2007  
Mieleen vaikuttavat kasvit, Sinikka Piippo, 2007  
esitelmä, Aivoviikko, Mediatori, Sinikka Piippo, 15.03.2007 → 31.12.2011, Finland  
esitelmä, Hyötykasvivyhdistys, Sinikka Piippo, 22.11.2007 → 31.12.2011, Finland  
esitelmä, Kalevalaiset naiset, Sinikka Piippo, 22.10.2007 → 31.12.2011, Finland  
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lehtihaastattelu, Luontaisterveys, Sinikka Piippo, 01.01.2007 → 31.12.2011, Finland  
lehtihaastattelu, Luontaisterveys 8/2007, Sinikka Piippo, 01.01.2007 → 31.12.2011, Finland  
lehtihaastattelu, Voi hyvin 5/2007, Sinikka Piippo, 01.01.2007 → 31.12.2011, Finland  
paneelikeskustelu, Aivoviikko, Mediatori, Sinikka Piippo, 17.03.2007 → 31.12.2011, Finland  
Kuukaustiskivut kuriin kotikonstein, Sinikka Piippo, 2008  
Mieli avautui kasvien maagisille voimille, Sinikka Piippo, 2008  
Pienet palovammat, Sinikka Piippo, 2008  
Taikaa ja terveyttä kasveista, Sinikka Piippo, 2008  
Taltuta kipu luonnollisesti, Sinikka Piippo, 2008  
Tule jo ihana uni! Valeriaanalla luontaista apua, Sinikka Piippo, 2008  
Yrtit ja laihdutus, Sinikka Piippo, 2008  
esitelmä, Fytonomien 10-vuotisjuhla, Riihimäki, Sinikka Piippo, 12.04.2008 → 31.12.2011, Finland  
lehtihaastattelu, Apu 46/2008, Sinikka Piippo, 01.01.2008 → 31.12.2011, Finland  
lehtihaastattelu, Demi 4/2008, Sinikka Piippo, 01.01.2008 → 31.12.2011, Finland  
lehtihaastattelu, Demi 7/2008, Sinikka Piippo, 01.01.2008 → 31.12.2011, Finland  
lehtihaastattelu, Helsingin Sanomat 15.6.2008, Sinikka Piippo, 01.01.2008 → 31.12.2011, Finland  
lehtihaastattelu, Life 3/2008, Sinikka Piippo, 01.01.2008 → 31.12.2011, Finland  
lehtihaastattelu, Luontaisterveys 1/2008, Sinikka Piippo, 01.01.2008 → 31.12.2011, Finland  
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luennot, Frantsila, Sinikka Piippo, 12.12.2008 → 31.12.2011, Finland  
Kasveissa piilee parantavia voimia, Sinikka Piippo, 2010 → ...





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Marjat ja niiden terveysvaikutukset, Sinikka Piippo, 2010 → ...

Marjojen pauloissa, Sinikka Piippo, 2010 → ...

Mausteet ja mausteyrtit lääkkeenä, Sinikka Piippo, 2010 → ...

Nokkonen vahvistaa, kanerva rauhoittaa, Sinikka Piippo, 2010 → ...

Tottakai kuu vaikuttaa, Sinikka Piippo, 2010 → ...

Uutta tietoa marjoista, Sinikka Piippo, 2010 → ...

Yrtit ja marjat, Sinikka Piippo, 2010 → ...

#### **Leif Schulman ,**

luento Laurea ammattikorkeakoulun (Espoon-Vantaan AMK) Maailman hyötykasvit -kursilla, Leif Schulman, 09.03.2001 → 31.12.2011, Finland

Lehtihaastattelu Hufvudstadsbladet-lehdessä, toimittaja Hedda Biström (Leif Schulmania haastateltu aikaisemmin), Leif Schulman, 27.07.2003 → 31.12.2011, Finland

Lehtihaastattelu kasvitieteellisen puutarhan joulukasvinäyttelystä, julkaistu Helsingin Sanomissa, Kaupunki-sivuilla, Leif Schulman, 16.12.2003 → 31.12.2011, Finland

Lehtihaastattelu, kantakaupungin paikallislehdet, toimittaja Enni Kömmistö (artikkeli ilmestyi Töölöläisessä 7.12.2003, Kamppi-Eira kaupunginosalehdessä 10.12.2003 ja Meri-Helsingissä 17.12.2003), Leif Schulman, 21.11.2003 → 31.12.2011, Finland

Pikku-uutinen Sosiaaliturva-lehti 13/2003 (Leif Schulmania haastateltu), Leif Schulman, 01.01.2003 → 31.12.2011, Finland

Cafe Scientifique; tiedekeskus Heurekan ja British Councilin yhteistyönä Kaisaniemen kasvitieteellisessä puutarhassa järjestämä tilaisuus, Leif Schulman, 13.05.2004 → 31.12.2011, Finland

Etelä-Suomen Sanomat haastatteli Leif Schulmania, Leif Schulman, 26.10.2004 → 31.12.2011, Finland

Hufvudstadsbladetin toimittaja haastatteli 17.8. Leif Schulmania ja Marko Pesua puutarhan harjoittamasta siemenvaihdosta, Leif Schulman, 21.08.2004 → 31.12.2011, Finland

Leif Schulman oli antanut tietoja Torsti tietää -palstan vastaukseen, joka oli Helsingin Sanomissa, Leif Schulman, 15.02.2004 → 31.12.2011, Finland

Paul Segersvärd oli haastatellut 20.10. Leif Schulmania ja Johanna Kolehmaista; haastattelu lähetettiin Luonto lähellä -sarjassa, Leif Schulman, 01.11.2004 → 31.12.2011, Finland

Pirka-lehden Markku Saksan kirjoituksessa oli Leif Schulmanin lausunto, Leif Schulman, 01.01.2004 → 31.12.2011, Finland

Tiede-lehden Tutustu tutkijaan -artikkelisarjassa ilmestyi numerossa 2/2004 toimittaja Jarno Forssellin kirjoittama Leif Schulmanin esittely, Leif Schulman, 01.01.2004 → 31.12.2011, Finland

alustus ympäristöministeriön koolle kutsumassa neuvottelutilaisuudessa, jossa käsiteltiin kansallista kasviston suojelua ja kestäväin käytön toimintaohjelmaa, Leif Schulman, 01.11.2004 → 31.12.2011, Finland

esitelmä Helsingin yliopiston luonnontieteellisen keskusmuseon Kivikunta?Kasvikunta?Eläinkunta? -yleisöluentosarjassa, Leif Schulman, 07.04.2004 → 31.12.2011, Finland

tiedekeskus Heurekan ohjelmapäällikkö Paula Havaste haastatteli Leif Schulmania, Leif Schulman, 30.11.2004 → 31.12.2011, Finland

toimittaja Marja Pemberton oli 26.5. haastatellut Leif Schulmania Yliopistolehden puutarhateemanumeroon 8/04, Leif Schulman, 18.06.2004 → 31.12.2011, Finland

toimittaja Paula Ritanen-Närhi haastatteli Leif Schulmania joulukuun 2005 Kotiliesi-lehteen tulevaan joulukasvivaikheeseen artikkeliin, Leif Schulman, 15.12.2004 → 31.12.2011, Finland

Dendrologian Seuran Arboretum-seminaari (kutsuttu esitelmä), Leif Schulman, 28.04.2005 → 31.12.2011, Finland

Espoon Rotary-klubi, viikkokokous (kutsuttu esitelmä), Leif Schulman, 18.04.2005 → 31.12.2011, Finland

FINFOOD-uutiset (www.finfood.fi) ja Farmi-uutiset (www.farmi-uutiset.fi) (haastattelu), Leif Schulman, 02.02.2005 → 31.12.2011, Finland

Helsingin Sanomat -lehti (haastattelu), Leif Schulman, 09.02.2005 → 31.12.2011, Finland

Helsingin Sanomat -lehti, Nimiä tänään, nimitykset (haastattelu), Leif Schulman, 30.06.2005 → 31.12.2011, Finland

Helsingin Sanomat -lehti, Tiede & Luonto (haastattelu), Leif Schulman, 11.10.2005 → 31.12.2011, Finland

Helsingin yliopiston viestintäosaston järjestämä Vetenskapssnack-toimittajatapaaminen (kutsuttu alustus), Leif Schulman, 19.01.2005 → 31.12.2011, Finland



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ILMIÖ - Helsingin yliopiston verkkolehti (haastattelu), Leif Schulman, 01.01.2005 → 31.12.2011, Finland  
Ilkka-lehti, Ajassa-liite (haastattelu), Leif Schulman, 08.03.2005 → 31.12.2011, Finland  
Kaupunkilehti Varti (haastattelu), Leif Schulman, 24.11.2005 → 31.12.2011, Finland  
Kotiliesi-lehti (haastattelu), Leif Schulman, 15.11.2005 → 31.12.2011, Finland  
Kotipuutarha-lehti (haastattelu), Leif Schulman, 01.09.2005 → 31.12.2011, Finland  
Maaseudun tulevaisuus -lehti (haastattelu), Leif Schulman, 02.02.2005 → 31.12.2011, Finland  
Uutispäivä Demari -lehti (haastattelu), Leif Schulman, 03.02.2005 → 31.12.2011, Finland  
Uutispäivä Demari -lehti (haastattelu), Leif Schulman, 19.04.2005 → 31.12.2011, Finland  
Yliopisto-lehti (haastattelu), Leif Schulman, 01.03.2005 → 31.12.2011, Finland  
Esitelmä, Blomsterodlingens vänner i Finland rf, Leif Schulman, 15.03.2006 → 31.12.2011, Finland  
Haastattelu, Iltalehti, Leif Schulman, 17.11.2006 → 31.12.2011, Finland  
Haastattelu, Birka-lehti, Leif Schulman, 01.01.2006 → 31.12.2011, Finland  
Haastattelu, ET Kotipiha -lehti, Leif Schulman, 01.01.2006 → 31.12.2011, Finland  
Haastattelu, Helsingin Sanomat, Leif Schulman, 01.04.2006 → 31.12.2011, Finland  
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Haastattelu, Helsingin-info, Leif Schulman, 04.06.2006 → 31.12.2011, Finland  
Haastattelu, Länsiväylä, Leif Schulman, 17.09.2006 → 31.12.2011, Finland  
Haastattelu, Pirkka-lehti, Leif Schulman, 01.01.2006 → 31.12.2011, Finland  
Haastattelu, Savon Seudun Snaomat, Leif Schulman, 12.08.2006 → 31.12.2011, Finland  
Haastattelu, Åbo Underrättelser -lehti, Leif Schulman, 23.12.2006 → 31.12.2011, Finland  
Interview, Helsingin Sanomat, Leif Schulman, 08.09.2006, Finland  
Interview, HS, Leif Schulman, 26.10.2007, Finland  
Interview, Hbl, Leif Schulman, 26.10.2007, Finland  
Interview, Hbl, Leif Schulman, 28.10.2007, Finland  
Interview, Helsingin Uutiset, Leif Schulman, 08.04.2007, Finland  
Interview, Kansan Uutiset Viikkolehti, Leif Schulman, 16.05.2007, Finland  
Interview, Maaseudun tulevaisuus, Leif Schulman, 06.03.2007, Finland  
Interview, Orimattilan Sanomat, Leif Schulman, 05.01.2007, Finland  
Interview, Parnasso - kirjallinen aikakauslehti 2/2007, Leif Schulman, 02.2007, Finland  
Interview, Puutarha & kauppa 16/2007, Leif Schulman, 30.09.2007, Finland  
Interview, Seura 14-15, Leif Schulman, 05.04.2007, Finland  
Interview, Gotlands Allehanda, Leif Schulman, 12.09.2008, Finland  
Interview, Helsingin Sanomat, Leif Schulman, 22.07.2008, Finland  
Interview, Itä-Savo, Leif Schulman, 21.08.2008, Finland  
Interview, Salon Seudun Sanomat, Leif Schulman, 02.04.2008, Finland  
Interview, HBL, Leif Schulman, 08.06.2009  
Interview, Helsinki Times 28 (107), Leif Schulman, 09.07.2009  
Interview, Kaleva, Turun Sanomat, Keskiuomalainen, Leif Schulman, 04.10.2009



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Interview, Pietarsaaren Sanomat, Leif Schulman, 09.09.2009  
Interview, Puutarha & Kauppa, Leif Schulman, 12.06.2009  
Interview, Viherpiha, 4/2009, Leif Schulman, 2009  
Interview, Viherympäristö 4/09, Leif Schulman, 2009  
Interview, Yhteishyvä, 7.09, Leif Schulman, 2009  
Interview, HBL, Leif Schulman, 27.05.2010  
Interview, HS, Leif Schulman, 27.05.2010  
Interview, Kaleva, Leif Schulman, 11.08.2010  
Interview, Toivekoti & puutarha 4/2010., Leif Schulman, 2010  
Interview, Viherpiha 4/2010., Leif Schulman, 2010  
Interview, Viherä lanka, Leif Schulman, 12.03.2010  
Interview, Yliopistolainen 2/2010, Leif Schulman, 2010

**Soili Stenroos ,**

Newspaper interview, Soili Stenroos, 27.02.2005, Finland  
Newspaper interview, Soili Stenroos, 20.04.2006, Finland  
Newspaper interview, Soili Stenroos, 10.11.2009, Finland  
Newspaper interview, Soili Stenroos, 13.10.2010, Finland  
Newspaper interview, Soili Stenroos, 18.10.2010, Finland  
Newspaper interview, Soili Stenroos, 13.10.2010, Finland

**Risto Väinölä ,**

Apropos-lehti 4/2005, Risto Väinölä, 2005, Finland  
Pro Academia 1/2006, Risto Väinölä, 2006, Netherlands

**Henry Väre ,**

Helsingin ruususeuran kuukausikokous, Henry Väre, 22.01.2002 → 31.12.2011, Finland  
Sakhan televisio, Henry Väre, 15.07.2002 → 31.12.2011, Finland  
Viherpäivät, Espoo, Henry Väre, 26.05.2002 → 31.12.2011, Finland  
Helsingin ruususeuran kuukausikokous, Henry Väre, 11.02.2003 → 31.12.2011, Finland  
Luonto museossa -seminaari, Suomen Museoliitto, Pori, Henry Väre, 15.10.2003 → 31.12.2011, Finland  
Luonnontieteellisen keskusmuseon yleisöluentosarja, Henry Väre, 04.02.2004 → 31.12.2011, Finland  
posterit (Väre, H., Koistinen, M., Salo, U., Salo, P., Kurto, A., Jääskeläinen, K. & Uotila, P.), Kasvitieteen Kevät Kaisaniemessä, Kasvimuseon Avoimet Ovet -yleisötapahtuma, Henry Väre, 14.05.2004 → 31.12.2011, Finland  
posterit (Väre, H., Kukkonen, I. & Timonen, T.), Kasvitieteen Kevät Kaisaniemessä, Kasvimuseon Avoimet Ovet -yleisötapahtuma, Henry Väre, 14.05.2004 → 31.12.2011, Finland  
posterit, Kasvitieteen Kevät Kaisaniemessä, Kasvimuseon Avoimet Ovet -yleisötapahtuma, Henry Väre, 14.05.2004 → 31.12.2011, Finland  
teema-kiertokäynti kasvitieteellisessä puutarhassa, Kasvitieteen Kevät Kaisaniemessä, Kasvimuseon Avoimet Ovet -yleisötapahtuma, Henry Väre, 14.05.2004 → 31.12.2011, Finland  
lehtihaastattelu, Kaleva, Henry Väre, 04.06.2005 → 31.12.2011, Finland  
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esitelmä, Tiirismaan latu ry., kuukausikokous, Lahti, Henry Väre, 12.12.2006 → 31.12.2011, Finland  
lehtihaastattelu, Etelä-Suomen Sanomat, Henry Väre, 16.12.2006 → 31.12.2011, Finland  
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esitelmä, Maatiainen, kuukausikokous, Henry Väre, 26.03.2007 → 31.12.2011, Finland  
esitelmä, Puutarhamessut, Henry Väre, 20.04.2007 → 31.12.2011, Finland  
esitelmä, Tunturikerho Kavtsi, Henry Väre, 16.04.2007 → 31.12.2011, Finland  
esitelmä, Hämeen kesäyliopisto, Ikääntyvien yliopisto, Riihimäki, Henry Väre, 15.10.2008 → 31.12.2011, Finland  
esitelmä, Ikäihmisten yliopisto, Lappeenranta, Henry Väre, 21.02.2008 → 31.12.2011, Finland  
esitelmä, Tampereen yliopisto, Ikäihmisten yliopisto, Hämeenlinna, Henry Väre, 16.04.2008 → 31.12.2011, Finland

#### **Pekka Vilkkamaa ,**

Lehtihaastattelu: Apu-lehti, Pekka Vilkkamaa, 03.10.2003 → 31.12.2011, Finland  
Lehtihaastattelu: Hämeen Sanomat, Pekka Vilkkamaa, 22.08.2003 → 31.12.2011, Finland  
Lehtihaastattelu: Savon Sanomat, Pekka Vilkkamaa, 02.09.2003 → 31.12.2011, Finland  
Savon Sanomat, Pekka Vilkkamaa, 01.01.2004 → 31.12.2011, Netherlands  
Metro-lehti, Pekka Vilkkamaa, 17.10.2005 → 31.12.2011, Finland  
Satakunnan kansa, Pekka Vilkkamaa, 20.10.2005 → 31.12.2011, Finland  
Tiede-lehti, Pekka Vilkkamaa, 11.02.2005 → 31.12.2011, Finland  
Iltä-Sanomat, Pekka Vilkkamaa, 03.06.2006 → 31.12.2011, Finland  
Iltalehti, Pekka Vilkkamaa, 06.06.2006 → 31.12.2011, Finland  
YLE, Pekka Vilkkamaa, 07.09.2006 → 31.12.2011, Finland  
Iltä-Sanomat, lehtihaastattelu, Pekka Vilkkamaa, 25.07.2008 → 31.12.2011, Finland  
Kuopion kaupunkilehti, haastattelu, Pekka Vilkkamaa, 24.06.2008 → 31.12.2011, Finland  
Satakunnan kansa, lehtihaastattelu, Pekka Vilkkamaa, 01.07.2008 → 31.12.2011, Finland  
Lehtihaastattelu: Hyttysset, Pekka Vilkkamaa, 29.06.2010  
Lehtihaastattelu: Hyönteislajin tunnistus valokuvasta, Pekka Vilkkamaa, 27.08.2010  
Lehtihaastattelu: banaanikärpäset, Pekka Vilkkamaa, 01.09.2010  
Lehtihaastattelu: banaanikärpäset, Pekka Vilkkamaa, 15.09.2010  
Lehtihaastattelu: banaanikärpäset, Pekka Vilkkamaa, 22.10.2010, Finland  
Lehtihaastattelu: hyttysset, Pekka Vilkkamaa, 23.04.2010, Finland  
Lehtihaastattelu: hyttysset, Pekka Vilkkamaa, 03.05.2010, Finland  
Lehtihaastattelu: hyttysset, Pekka Vilkkamaa, 20.05.2010, Finland  
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Lehtihaastattelu: hyttysset, Pekka Vilkkamaa, 23.06.2010  
Lehtihaastattelu: hyönteiset, Pekka Vilkkamaa, 05.05.2010, Finland  
Lehtihaastattelu: punkit, Pekka Vilkkamaa, 17.06.2010  
Lehtihaastattelu: tulvahyttynen, Pekka Vilkkamaa, 06.07.2010

#### **Participation in radio programme**

##### **Olof Biström ,**

Haastattelu, Olof Biström, 07.02.2005, Finland  
Haastattelu, Olof Biström, 08.02.2005, Finland



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Haastattelu, Olof Biström, 13.09.2006, Finland  
Sveriges Radio, Program 1, Naturmorgon, Olof Biström, 10.05.2006, Finland  
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Haastattelu, Olof Biström, 26.08.2010, Finland  
Haastattelu, Olof Biström, 22.01.2010, Finland

**Aino Juslén ,**

Interview: Radio Suomi, Aino Juslén, 05.07.2007, Finland  
Interview: YLE Radio 1, Aino Juslén, 05.04.2007, Finland  
Interview: Radio Itä-Uusimaa, Aino Juslén, 16.05.2008, Finland  
Interview: YLE Radio 1 Tiedelinko, Aino Juslén, 05.04.2009, Finland

**Lauri Kaila ,**

Radio Nova, haastattelu ohjelmaosioon "Muna vai kana?", Lauri Kaila, 21.06.2006, Australia

**Jyrki Muona ,**

Haastattelu, Jyrki Muona, 22.12.2010, Finland  
Interview in morning radio, Jyrki Muona, 14.06.2010, Finland

**Sinikka Piippo ,**

Villivihannesten käyttö, Sinikka Piippo, 13.06.2005  
radiohaastattelu, Ylen aikainen, Sinikka Piippo, 13.06.2005 → 31.12.2011, Finland  
3 radiohaastattelua, Sävelradio, Sinikka Piippo, 01.01.2006 → 31.12.2011, Finland  
Lääkekasvit, Sinikka Piippo, 2006  
Mieltä kuntouttavat kasvit, Sinikka Piippo, 2006  
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radiohaastattelu, Helmi, Sinikka Piippo, 01.01.2006 → 31.12.2011, Finland  
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Afrodisiakit, Sinikka Piippo, 11.06.2009  
Kasvit juhannustaijoissa, Sinikka Piippo, 24.06.2010  
Naimaonnea kesäyön kukkasista, Sinikka Piippo, 25.06.2010  
Suomalaiset marjat. Kaikki pihan ja puutarhan lajit, Sinikka Piippo, 15.08.2010

**Leif Schulman ,**

YLE Radio Vega (haastattelu), Leif Schulman, 19.05.2005 → 31.12.2011, Finland  
YLE Radio Vega - Mellannyland (haastattelu), Leif Schulman, 03.11.2005 → 31.12.2011, Finland  
YLE Radio Vega - Mellannyland (haastattelu), Leif Schulman, 11.10.2005 → 31.12.2011, Finland  
YLE Radio Vega - Mellannyland (haastattelu), Leif Schulman, 15.07.2005 → 31.12.2011, Finland  
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Haastattelu, Radio Helsinki, Leif Schulman, 07.02.2006 → 31.12.2011, Finland  
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Interview, YLE Radio 1, Ykkösaamu, Leif Schulman, 06.04.2010  
Interview, YLE Radio Vega, Leif Schulman, 18.02.2010

#### **Henry Väre ,**

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#### **Pekka Vilkamaa ,**

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#### **Participation in TV programme**

##### **Olof Biström ,**

Haastattelu, Olof Biström, 09.02.2005, Finland  
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Haastattelu, Olof Biström, 17.08.2010, Finland

**Xiaolan He ,**

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**Aino Juslén ,**

Interview: Luonto lähellä, Aino Juslén, 14.08.2007, Finland

Interview: YLE Prisma Studio, Aino Juslén, 28.03.2007, Finland

Interview: MTV3 Huomenta Suomi, Aino Juslén, 16.01.2008, Finland

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Interview: Huomenta Suomi, Aino Juslén, 02.12.2010, Finland

Interview: MTV3 Uutiset, Aino Juslén, 01.12.2010

**Lauri Kaila ,**

YLE:n TV1, Prisma studio / Mari Keinänen, Lauri Kaila, 06.09.2006, Australia

MTV3 aamu-TV, Lauri Kaila, 30.07.2007, United Kingdom

**Nina Laurene ,**

Yle Prisma, loispistiäiset, Nina Laurene, 15.09.2007, Finland

**Jyrki Muona ,**

Aamu-TV, Jyrki Muona, 08.02.2005, Finland

TV 1, Jyrki Muona, 14.04.2005, Finland

Yle Teema, Jyrki Muona, 12.04.2005, Finland

Interview for evening news, Jyrki Muona, 10.02.2010

**Sinikka Piippo ,**

Luonnon lääkeyrtit, Sinikka Piippo, 2004 → ...

TV-haastattelu, Yle Teema, Sinikka Piippo, 11.12.2008 → 31.12.2011, Finland

Tutkiva juttu, Sinikka Piippo, 2008 → ...

Kamomilla, Sinikka Piippo, 2009

**Leif Schulman ,**

Interview, Obs! TV 2, Leif Schulman, 02.09.2005, Finland

Interview, TV-nytt, Leif Schulman, 19.05.2005, Finland

Interview, TV-nytt, Leif Schulman, 20.07.2005, Finland

Interview, TV-ohjelma "Prisma-studio", Leif Schulman, 18.10.2006, Finland

Interview, Yle TV1, puoli yhdeksän uutiset, Leif Schulman, 02.01.2006, Finland

Interview, FST5 - Tieteen koukerot, Leif Schulman, 26.10.2007, Finland

Interview, TV-nytt, Leif Schulman, 28.03.2007, Finland

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**Gunilla Ståhls ,**

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**Soili Stenroos ,**

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**Henry Väre ,**

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tv-ohjelma, YLE TV1, Henry Väre, 23.01.2008 → 31.12.2011, Finland

**Participation in interview for web based media**

**Aino Juslén ,**

Interview: Metsopolku, Aino Juslén, 08.07.2009, Finland

Interview: European Environment Agency "Our Natural Europe" -project, Aino Juslén, 04.06.2010

**Sinikka Piippo ,**

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Interview, WWW.mtv3.fi, Leif Schulman, 26.05.2010





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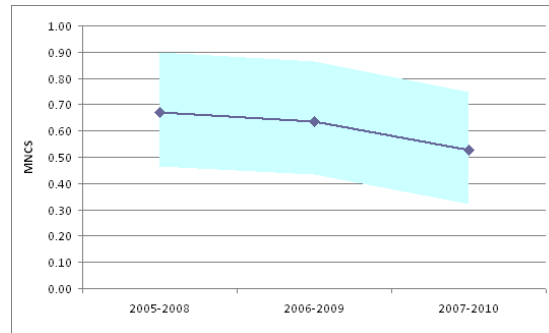
Web of Science(WoS)-based bibliometrics of the RC's publications data 1.1.2005-31.12.2010  
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Research Group: Stenroos S

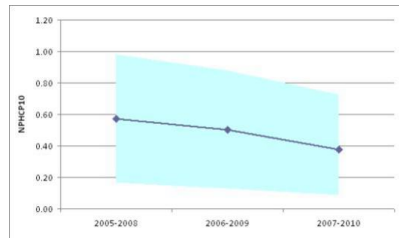
### Basic statistics

Number of publications (P)	174
Number of citations (TCS)	567
Number of citations per publication (MCS)	3.26
Percentage of uncited publications	45%
Field-normalized number of citations per publication (MNCS)	.59
Field-normalized average journal impact (MNJS)	.71
Field-normalized proportion highly cited publications (top 10%)	.50
Internal coverage	.47

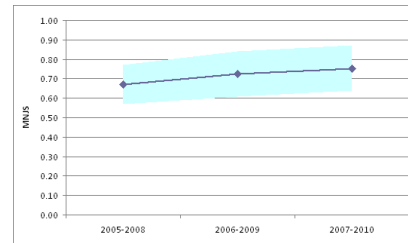
### Trend analyses



MNCS

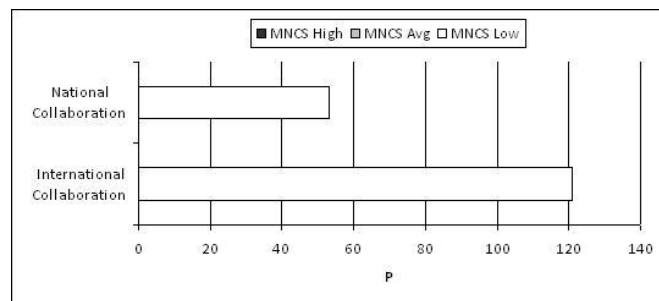


THCP10



MNJS

### Collaboration



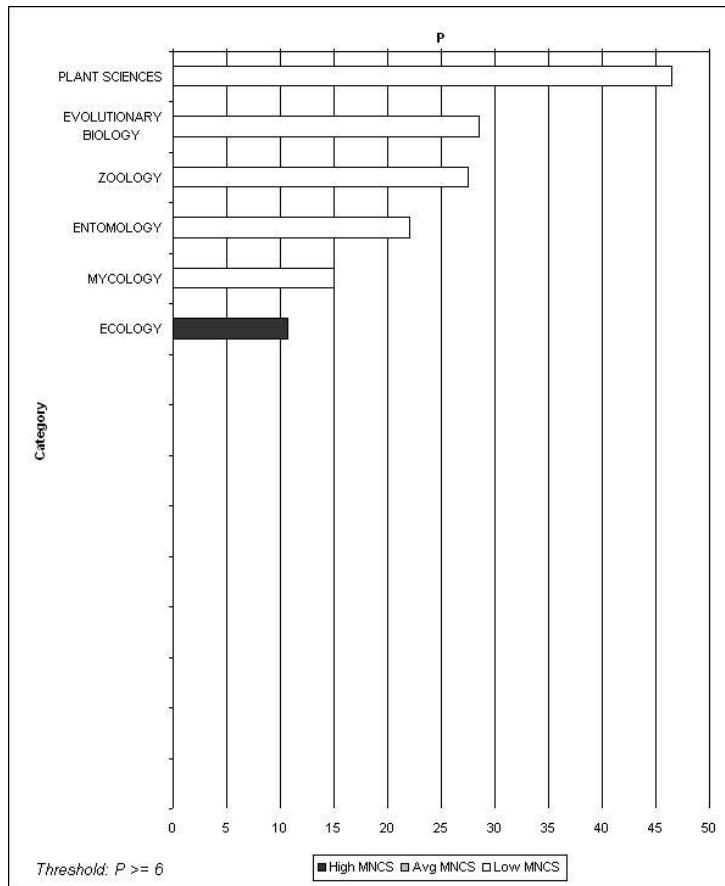
Performance (MNCS) by collaboration type



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