## New methodology in bibliometrics using Altmetrics

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## 2006-2009

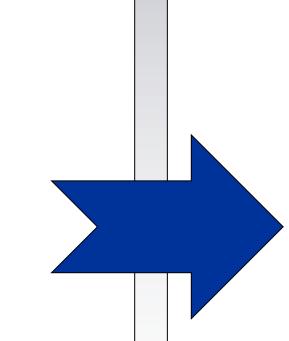


# 2009-2014



## 2015





## **Future**



#### **BACKGROUND**

The CBL Library started writing bibliometric studies based on:

- ISI Web of Science
- Current Contents

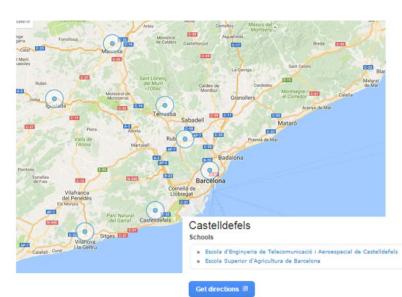
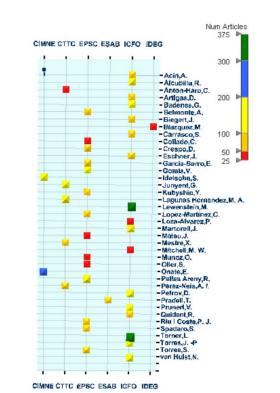


Figure 1: UPC schools and Castelldefels Baix Llobregat



#### Figure 2: Authors by research center bibliometrics data in 2009 (Castelldefels

Baix Llobregat Campus).

#### **CHALLENGES**

Lack of standardization in author's signature and ISI limitations on author search.

- Bibliometric studies were based on author's name.
- Collected data referred to publications, citations, etc.
- Search strategy was set by address field of Web Of Science
- Results were classified by department and research centers
- Classification enabled to rank "best" authors.

Findings: a qualitative indicator was required to enhance the quantitative indicator based on the number of publications.



#### **IMPROVEMENT 1:** Scopus and ORCID

Scopus used instead of Web Of Science.

Search strategy was author's name instead of WOS address

Authors' names were extracted from LDAP.

Scopus ID feature and ORCID spread amongst the community, plus linkage of both databases, helped identify and disambiguate researchers with similar or the very same names.

Journal Citation Reports database was used to evaluate Journals.

Quantitative indicators covered were:

- Number of publications by author
- Number of citations received by article

Authors

- Journal titles
- Journal Impact Factor
- Journal Quartile
- Type of publication
- Subject category Co-authors' country
- Co-authors' institution

Figure 3: items published by

author since 2010.

Sources

Figure 4: items published by journal title.

#### **IMPROVEMENT 2: Futur**

Use of *Futur* as bibliographic source

- Futur is the University research portal, launched in 2015, with data populated from CRIS and institutional repository, UPCommons.
- Contains other bibliographic material not covered in bibliographic databases. I.e. Posters, reports, book chapters, books, theses, exhibition's catalogue's chapters, etc.
- Includes Altmetric button both for item (if a DOI is provided) and author (if author has an ORCID).

Bibliographic studies were based on University subjects, which enabled to compare different University areas, such as Campus, Departments, etc.

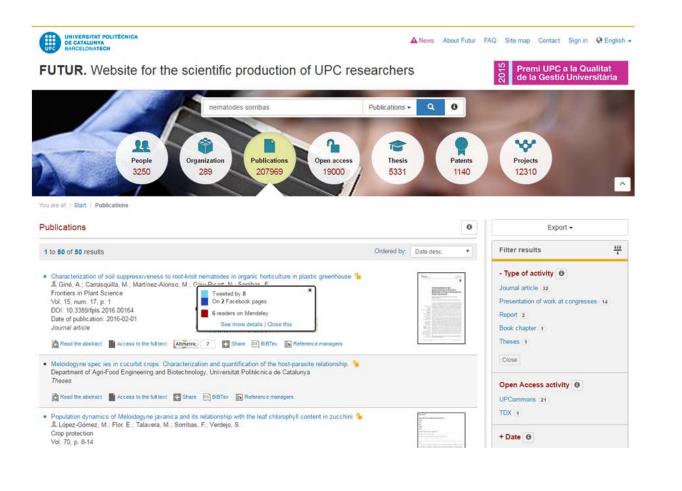


Figure 5: Futur, UPC research portal, displaying items with Altmetric button

#### **FUTURE TRENDS**

- To complement *Futur* with providers and aggregators altmetrics data.
- To select most commonly bibliographic data tools used by UPC-BCNTech faculty. I.e. Data aggregators such as Google Scholar Citations, Mendeley, Research Gate, Twitter, since rankings and preferences are usually built on them.
- To include a new indicator that quantifies "popularity" using some of the features and data from Impacstory, Plum Analytics or altmetrics, such as:

Figure 6: colours of the Altmetric donut. Pinterest Wikipedia

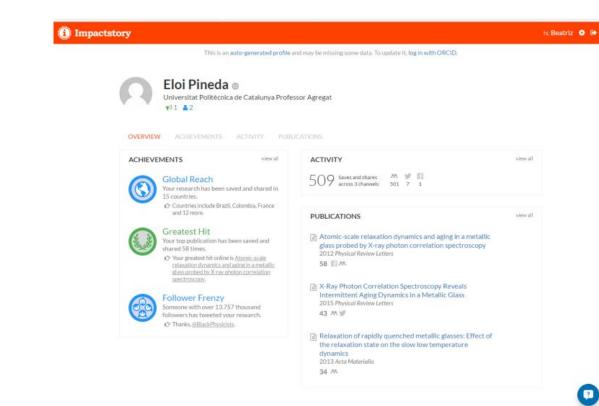


Figure 7: Impactstory record for a UPC Researcher.



