

International Symposium on

**Cyclophilins and other Foldases:  
Cell Signaling Catalysts and  
Drug Targets**

Halle (Saale), Germany,

September 19-21, 2013

**CONFERENCE MATERIAL**

## **CONFERENCE VENUE**

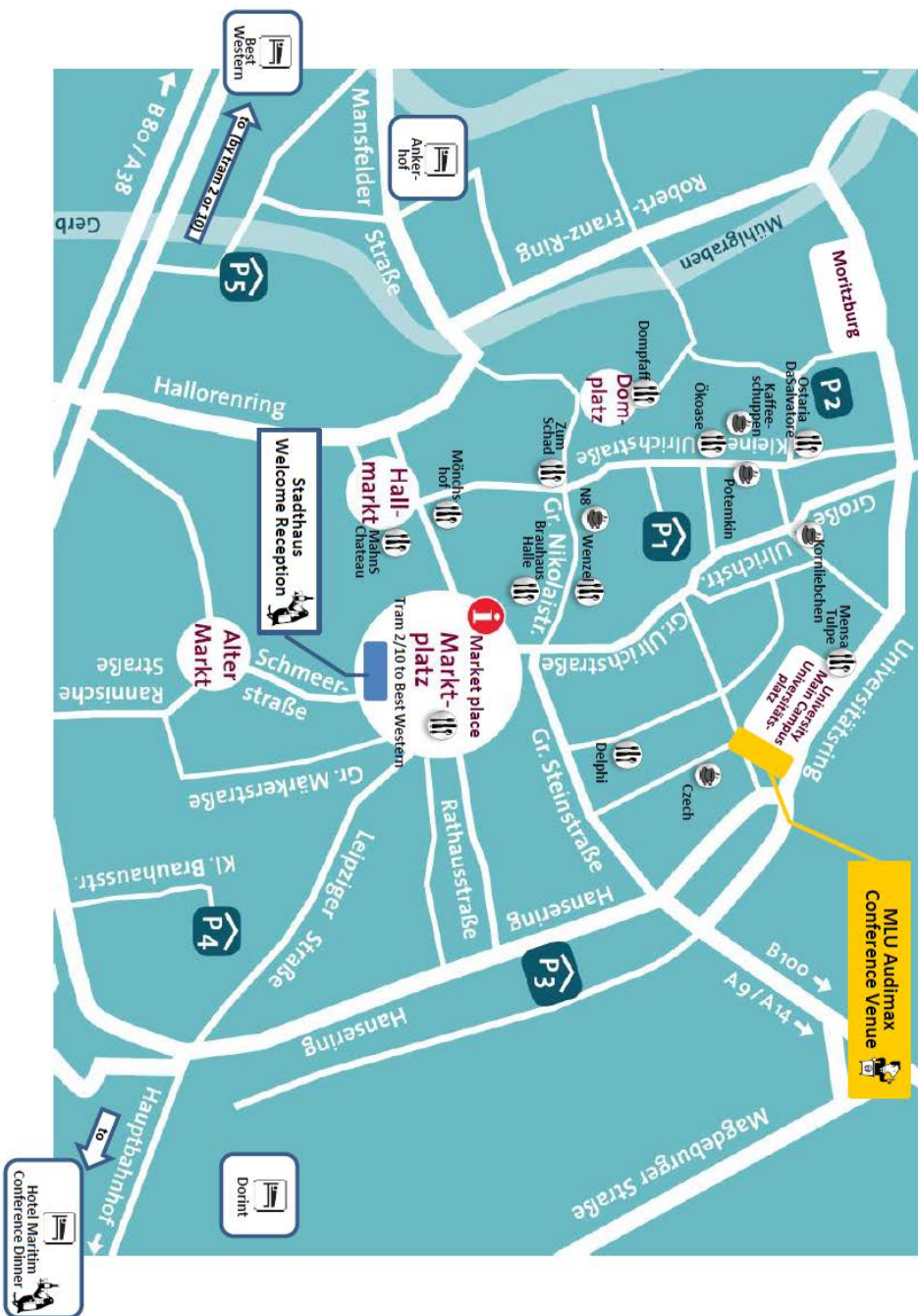
The symposium will be held at

the Martin-Luther-University Halle-Wittenberg  
Lecture hall XXII

Universitätsplatz 1  
06108 Halle (Saale)  
Germany

Conference office telephone: 0157-30056381

### CONFERENCE VENUE LOCATION



## **ORGANIZING COMMITTEE**

Jochen Balbach (MLU Halle-Wittenberg)

Gunter Fischer (MPI BPC Göttingen, BO Halle)

Franz X. Schmid (University of Bayreuth)

## **The conference is supported by**

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The City of Halle

## **WELCOME TO THE CONFERENCE**

We take great pleasure in setting aside our regular lab work and welcoming you all to the International Conference on Cyclophilins and other Foldases - Cell Signaling Catalysts and Drug Targets, which will be held at the Martin-Luther-University Halle-Wittenberg, Germany from September 19<sup>th</sup> to 22<sup>th</sup>, 2013.

In the last few years, the scientific and biotechnological communities have become increasingly interested in the challenges involved in conformational regulation of bioactivities by endogenous factors such as foldases. This is reflected in the number of over 600 papers published during 2012 about the enzymes addressed in this conference. We are just beginning to understand how catalyzed conformational interconversions of peptide bonds may affect protein functioning under physiological and pathophysiological conditions. This conference is thought to provide an unique forum for researchers to present and exchange new data and to call attention on all aspects of foldase enzymes and their inhibitors. We are pleased to see many prominent scientists come lecturing here in their special fields extending the biochemical studies to biomedicine and potential clinical applications.

Halle, with its 230.000 inhabitants, is situated along the river Saale. Our conference venue belongs to the Martin-Luther University Halle-Wittenberg, which is one the oldest universities in Germany. You will find Germany's National Academy of Sciences, Leopoldina just a few steps from the conference venue indicating that Halle (Saale) is a good place to discuss and to plan scientific activities.

Also important, along the streets and lanes of the city you will find many coffee shops and restaurants where you can sit and listen to the city's buzz.

We truly hope you will enjoy the conference and your days in Halle (Saale).

## GENERAL INFORMATION

### **Location**

The symposium will be held in the Auditorium Maximum (Audimax) at the Martin-Luther-University Halle-Wittenberg, Lecture hall XXII, Universitätsplatz 1, 06108 Halle (Saale), Germany.

### **Conference Office**

The conference office is located in the foyer of the Audimax and will be open from 11 am on September 19, 2013 and on the following days of the symposium from 7:30 a.m. till the end of the sessions.

Wireless LAN access is available at the conference office.

### **Registration**

All participants are kindly requested to visit the conference office after arrival. All necessary conference materials will be distributed together with the conference bag.

### **Badges**

All participants are kindly requested to wear their badges throughout the conference for identification and admittance to the sessions and social events. Members of the organization staff will wear yellow badges.

### **Lunches**

All participants are kindly requested to arrange for their own lunch. Lunch is available from several different local restaurants and coffee shops within walking distance. At the marketplace and in Große Ullrichstraße, there are also several take-aways. Several lunch opportunities are marked on the map (page 3).

### **Transportation**

Halle has a public transportation system operating a tram and bus network. Please be sure to validate your ticket in the tram.

### **Money Exchange**

All banks offer money exchange according to the official current exchange rates. Common credit cards are accepted in most shops and restaurants.

## **Hotels**

In case of late arrival please contact the hotels.

Conference hotels are:

### Dorint Charlottenhof Halle

Dorotheenstraße 12

06108 Halle

0345 / 29230

The conference venue can be easily reached from the hotel by foot (20 min walk).

### Ankerhof Hotel

Ankerstraße 2

06108 Halle

0345 / 2323200

The conference venue can be easily reached from the hotel by foot (20 min walk).

### Maritim Hotel Halle

Riebeckplatz 4

06110 Halle

0345 / 51010

The conference venue can be reached from the hotel by foot (20 min walk) or by tram (line 2, 4, 5, 7, 9 and 12).

### Best Western Grand City Hotel Halle

Neustädter Passage 5

06122 Halle (Halle-Neustadt)

0345 / 69310

Guests of this hotel travel free-of-charge on public transport in Halle. To the conference venue it is recommended to go by tram to the market place (line 2 or 10, 11 min). From the market place back to the hotel please use line 2 (direction Soltau Straße) or line 10 (direction Göttinger Bogen) each departing every 15 min. The tram stop is right in front of the hotel (Zentrum Neustadt).

## SOCIAL PROGRAM

### **All participants are kindly invited to the following social events:**

On Thursday, 19 September 2013, at 8:00 p.m. there will be a

#### **Welcome Reception at the Stadthaus Halle.**

The Stadthaus is the neo-gothic building located at the south side of the market place (Markt 2).

On Saturday, 21 September 2013, at 8:00 p.m. there will be the

#### **Conference Dinner at the Maritim Hotel Halle.**

The Maritim Hotel Halle can be found within walking distance of the conference venue at Riebeckplatz 4.

### **Special events:**

On Friday, 20 September 2013, at 8:00 p.m. there will be

#### **a Guided Evening Tour** in the State Museum of Prehistory.

The museum is located at Richard-Wagner-Str. 9. It can be reached most easily by taking tram 7. The tram station directly located in front of the museum is called "Landesmuseum für Vorgeschichte".

or alternatively,

**a Guided Evening Tour** in the Museum Händel-Haus, the birthplace of George Frideric Handel. The museum is located at Große Nikolaistraße 5 and can be found within walking distance of the conference venue.

**Please sign up for the event of your choice at the conference office.**

On Friday, 20 September 2013, at 7:30 p.m. there will be a

#### **Sponsor's Dinner at the Moritzburg Castle Halle.**

Separate invitations for this event will be presented together with the conference material.

### **For accompanying guests:**

For accompanying guests we offer ad hoc arrangements of excursions, guided city tours or museum visits.

Please contact the conference office for organization and support.



## SCIENTIFIC PROGRAM

### General

There will be plenary lectures (45 min), keynote topics (30 min) and oral communications (30 or 20 min). All times include discussion.

The program will also include posters. In microsymposia, there will be selected oral presentations in the lecture hall based on posters displayed in the poster area.

### Conference Language

English is the official language of the symposium.

### Lectures and Oral Presentations

All lectures will be held at the Auditorium Maximum, Lecture hall XXII, Universitätsplatz 1, Halle. Authors are kindly requested to load and to check their PowerPoint presentations in collaboration with the technical service before the session starts.

### Poster sessions

Poster sessions will be held in the foyer area of the Auditorium Maximum, Universitätsplatz 1, Halle. Poster authors are recommended to hang all posters on September, 19.

Two poster sessions with discussion at the stands are scheduled for September 20 (posters with odd numbers) and September 21 (posters with even numbers). Each poster will be allotted a panel of size: 90 cm in width and 120 cm in high.

### Microsymposia

In microsymposia, there will be selected oral presentations in the lecture hall based on posters displayed in the poster area. Oral presentation must be no longer than **8 min**. No more than **5 slides** are permitted. There will be no time for discussion in the lecture hall after the oral presentation. Please move discussions individually to the poster area.

## Cyclophilins and other Foldases

<b>Symposium Schedule</b>		
<b>Thursday, September 19</b>	<b>Friday, September 20</b>	<b>Saturday, September 21</b>
<p>Conference registration open from 11 a.m.</p> <p>Conference posters will be on display for the duration of the conference</p>	<b>Registration open from 7:30 a.m.</b>	<b>Registration open from 7:30 a.m.</b>
	<b>Session 2</b>	<b>Session 4</b>
	8:30 – 8:50 Chad Dickey (L-11)	8:30 – 9:15 Plenary Kun Ping Lu (L-27)
	8:50 – 9:10 Felix Hausch (L-12)	9:15 – 9:45 Steven Hanes (L-28)
	9:10 - 9:30 Tracy Robson (L-13)	9:45 - 10:05 Len Kritharides (L-29)
	9:30 - 9:50 Adina Breiman (L-14)	
	<b>9:50 - 10:20 Coffee break</b>	<b>10:05 - 10:35 Coffee break</b>
	10:20 - 10:40 Michael Steinert (L-15)	10:35 - 11:05 Donald Hamelberg (L-30)
	10:40 - 11:00 Holger Barth (L-16)	11:05 - 11:35 Dorothee Kern (L-31)
	11:00 - 11:20 Patrizia Nigro (L-17)	11:35 - 11:55 Xavier Hanouille (L-32)
	11:20 - 11:40 Joan C. Marini (L-18)	11:55 - 12:15 Valentina Bonetto (L-33)
	11:40 - 12:00 Hans Peter Bächinger (L-19)	12:15 - 12:35 Paulo A. Ferreira (L-34)
	12:00 - 12:20 Yi-Cherng Liou (L-20)	
	<b>12:20-14:00 Lunch break</b>	<b>12:35-14:00 Lunch break</b>
<b>Session 1</b>	<b>Session 3</b>	<b>Session 5</b>
14:00-14:20 <b>Opening remarks and history</b> Gunter Fischer (L-01)	14:00 – 14:45 Plenary Bradford C. Berk (L-21)	14:00 – 14:30 Jun O. Liu (L-35)
14:20 – 15:05 Plenary Philippe Gallay (L-02)	14:45 – 15:15 Andreas E. May (L-22)	14:30 – 15:00 Michael Bukrinsky (L-36)
15:05 – 15:35 Jeremy Luban (L-03)	<b>15:15 – 17:15 Microsymposium I and coffee break</b>	<b>15:00-16:50 Microsymposium II and coffee break</b>
15:35 – 15:55 Peter Probst (L-04)	17:15 – 17:45 James S. Malter (L-23)	16:50 – 17:20 Charles Clevenger (L-37)
<b>15:55 – 16:25 Coffee break</b>	17:45 – 18:05 Takafumi Uchida (L-24)	17:20 – 17:40 Thomas Ratajczak (L-38)
16:25 – 16:45 Angus Bell (L-05)	18:05 – 18:25 Felicia A. Etzkorn (L-25)	17:40 – 18:00 Eva Obermayr (L-39)
16:45 – 17:15 Etienne E. Baulieu (L-06)	18:25 – 18:45 Guy Lippens (L-26)	18:00 – 18:20 Kimio Satoh (L-40)
17:15 – 17:35 Veerle Baekelandt (L-07)		18:20 – 18:40 Franz X. Schmid (L-41)
17:35 – 17:55 Mario Galigniana (L-08)		18:40 – 19:00 Jochen Balbach (L-42)
17:55 – 18:25 Maria Fiammetta Romano (L-09)		
18:25 – 18:45 Hans Fliri (L-10)		
18:45 End of the session	18:45 End of the session	19:00 End of the session
20:00 Welcome Reception	Special events	20:00 Conference Dinner

## LECTURES

**Thursday, September 19**

**Session 1**

Chair: Gunter Fischer

14:00 **L-01**

**Gunter Fischer**

MPI BPC Göttingen, BO Halle, Germany

**OPENING REMARKS AND HISTORY**

14:20 **L-02**

**Philippe Gallay**

Department of Immunology & Microbial Science, La Jolla, CA, USA

**CYCLOPHILINS, CYCLOPHILIN INHIBITORS AND HEPATITIS C VIRUS**

15:05 **L-03**

**Jeremy Luban**

University of Massachusetts Medical School, Worcester, MA, USA

**THE HIV-1 CAPSID AND CONSERVATION OF AN ANCIENT  
CYCLOPHILIN A BINDING LOOP**

15:35 **L-04**

**Peter Probst<sup>1</sup>, Sarah Mosier<sup>1</sup>, Bernard Scorneaux<sup>1</sup>, Ann Sluder<sup>1</sup>, Koichi  
Watashi<sup>2</sup>, Katyna Borroto-Esoda<sup>1</sup>**

<sup>1</sup>Scynexis Inc., Durham, NC, USA, <sup>2</sup>National Institute of Infectious Diseases, Tokyo, Japan

**THE IMMUNOMODULATORY ROLE OF THE NON-  
IMMUNOSUPPRESSIVE CYCLOPHILIN INHIBITOR SCY-635 IN THE  
TREATMENT OF HEPATITIS C**

15:55 Coffee break

**Session 1 continued**

Chair: Philippe Gallay

16:25 **L-05**

**Angus Bell, Paul Monaghan, Wesley Shaw**

Trinity College Dublin, Dublin, Ireland

**ON THE MECHANISMS OF ANTIMALARIAL ACTION OF FK506,  
RAPAMYCIN AND NON-IMMUNOSUPPRESSIVE CONGENERS**

16:45 **L-06**

**Etienne Emile Baulieu<sup>1</sup>, Béatrice Chambraud<sup>1</sup>, Marcel Tawk<sup>1</sup>, Julien  
Giustiniani<sup>1</sup>, Geri Meduri<sup>1</sup>, Guy Lippens<sup>2</sup>**

Institut National de la Santé et de la Recherche Médicale, Le Kremlin-Bicêtre Cedex, France,

<sup>2</sup>Université de Lille, Villeneuve d'Ascq, France

**INTERACTION OF FKBP52 WITH TAU: PATHOPHYSIOLOGICAL  
ASPECTS**

17:15 L-07

**Angelique Deleersnijder, Melanie Gerard, Francesca Macchi, Anke Van der Perren, Chris Van den Haute, Veerle Baekelandt**

Laboratory for Neurobiology and Gene Therapy, KU Leuven, Belgium

**UNRAVELING THE ROLE OF FK506 BINDING PROTEINS IN THE AGGREGATION AND NEUROTOXICITY OF  $\alpha$ -SYNUCLEIN, A KEY PLAYER IN PARKINSON'S DISEASE**

17:35 L-08

**Mariana Lagadari<sup>1</sup>, Cristina Daneri<sup>1</sup>, Luciana Gallo<sup>1</sup>, Graciela Pwien-Pilipuk<sup>1</sup>, Mario Galigniana<sup>1,2</sup>**

<sup>1</sup>Instituto de Biología y Medicina Experimental (IBYME) Buenos Aires, Argentina, <sup>2</sup>University of Buenos Aires, Buenos Aires, Argentina

**MITOCHONDRIAL LOCALIZATION AND ANTIAPOPTOTIC PROPERTIES OF FKBP51 AND CYCLOPHILIN A**

17:55 L-09

**Simona Romano, Giovanna Nappo, Maria Fiammetta Romano**

University Federico II, Naples, Italy

**FK506 BINDING PROTEIN 51 (FKBP51) PLAYS A ROLE AS TRANSCRIPTIONAL CO-REGULATOR OF MELANOMA STEMNESS**

18:25 L-10

**Hans Fliri**

Selcia Ltd., Fyfield Business & Research Park, Ongar, Essex, United Kingdom

**PROLYL ISOMERASES: INDUSTRY'S NEGLECTED CHILD**

## Friday, September 20

### Session 2

Chair: Jochen Balbach

8:30 L-11

**Laura Blair<sup>1</sup>, Shannon Hill<sup>2</sup>, Matt Scaglione<sup>3</sup>, Carl Cotman<sup>4</sup>, Henry Paulson<sup>3</sup>, Martin Muschol<sup>2</sup>, Vladimir Uversky<sup>2, 6</sup>, Torsten Klengel<sup>7</sup>, Elisabeth Binder<sup>7</sup>, Rakez Kaye<sup>8</sup>, Todd Golde<sup>5</sup>, Nicole Berchtold<sup>4</sup>, Chad Dickey<sup>1</sup>**

<sup>1,2</sup>University of South Florida, Department of Molecular Medicine, Tampa, FL, USA, <sup>3</sup>University of Michigan, Ann Arbor, MI, USA, <sup>4</sup>University of California, Irvine, CA, USA, <sup>5</sup>University of Florida, Gainesville, FL, USA, <sup>6</sup>Russian Academy of Sciences, Pushchino, Moscow Region, Russia, <sup>7</sup>Max Planck Institute of Psychiatry, Munich, Germany, <sup>8</sup>The University of Texas Medical Branch, Galveston, TX, USA

**FKBP51 COORDINATES WITH HSP90 TO FACILITATE NEURODEGENERATION THROUGH ALTERING TAU AGGREGATE STRUCTURE**

8:50 L-12

**Felix Hausch**

Max Planck Institute of Psychiatry, Munich, Germany

**THE PROSPECT OF FKBP51 AS A DRUG TARGET**

9:10 **L-13**  
**Lana McClements<sup>1</sup>, Anita Yakkundi<sup>1</sup>, Angelos Papaspyropoulos<sup>4</sup>, Hannah Harrison<sup>3</sup>, Matthew P. Ablett<sup>3</sup>, Puthen V. Jithesh<sup>5</sup>, Hayley D. McKeen<sup>1</sup>, Rachel Bennett<sup>1</sup>, Christopher Donley<sup>1</sup>, Adrien Kissenpfennig<sup>2</sup>, Helen O. McCarthy<sup>1</sup>, Eric O'Neill<sup>4</sup>, Robert B. Clarke<sup>3</sup>, Tracy Robson<sup>1</sup>**  
<sup>1,2</sup> Queen's University Belfast, Belfast, United Kingdom, <sup>3</sup>University of Manchester, Manchester, United Kingdom, <sup>4</sup>University of Oxford, Oxford, United Kingdom, <sup>5</sup>University of Liverpool, United Kingdom

**TARGETING TREATMENT RESISTANT BREAST CANCER STEM CELLS WITH FKBPL AND ITS PEPTIDE DERIVATIVE, AD-01**

9:30 **L-14**  
**Adina Breiman, David Meiri, Shikma Nachmani, Anat Milgrom**  
Department of Molecular Biology and Ecology of Plants, Tel Aviv University, Tel Aviv, Israel  
**THE PLANT LARGE FKBP<sub>s</sub> INTERACT WITH Hsp90 AND ARE INVOLVED IN DEVELOPMENT AND THERMOTOLERANCE**

9:50 Coffee break

**Session 2 continued**

Chair: Jeremy Luban

10:20 **L-15**  
**Michael Steinert<sup>1</sup>, Can Ünal<sup>1</sup>, Janine Rasch<sup>1</sup>, Kai Schwedhelm<sup>2</sup>, Alexandra Thiele<sup>3</sup>, Matthias Weiwad<sup>3</sup>, Kristian Schweimer<sup>4</sup>, Gunter Fischer<sup>6</sup>, Cornelius Faber<sup>5</sup>**  
<sup>1</sup>Technische Universität Braunschweig, Braunschweig, Germany, <sup>2</sup>University of Würzburg, Würzburg, Germany, <sup>3</sup>Martin Luther University Halle-Wittenberg, Halle (Saale), Germany, <sup>4</sup>Universität Bayreuth, Bayreuth, Germany, <sup>5</sup> Universitätsklinikum Münster, Münster, Germany, <sup>6</sup>MPI BPC Göttingen, BO Halle, Germany

**FUNCTION OF LEGIONELLA PNEUMOPHILA MIP DURING HUMAN INFECTION**

10:40 **L-16**  
**Katharina Ernst<sup>1</sup>, Eva Kaiser<sup>1</sup>, Cordelia Schiene-Fischer<sup>2</sup>, Holger Barth<sup>1</sup>**  
<sup>1</sup>University of Ulm Medical Center, Ulm, Germany, <sup>2</sup>Martin-Luther-University Halle-Wittenberg, Halle (Saale), Germany

**CYCLOPHILINS AND FK506 BINDING PROTEINS BIND TO AND MEDIATE MEMBRANE TRANSPORT OF BACTERIAL ADP-RIBOSYLATING TOXINS**

11:00 **L-17**  
**Patrizia Nigro<sup>1</sup>, Stefania Straino<sup>2</sup>, Giulio Pompilio<sup>1</sup>, Bradford C. Berk<sup>3</sup>, Maurizio C. Capogrossi<sup>2</sup>**  
<sup>1</sup>Centro Cardiologico Monzino-IRCCS, Milan, Italy, <sup>2</sup>Laboratorio di Patologia Vascolare -IRCCS, Rome, Italy, <sup>3</sup>University of Rochester School of Medicine and Dentistry, Rochester, NY, USA  
**ROLE OF CYCLOPHILIN A IN ISCHEMIA AND REGENERATION**

11:20 L-18

**Wayne A. Cabral<sup>1</sup>, Irina Perdivara<sup>2</sup>, MaryAnn Weis<sup>3</sup>, Masahiko Terajima<sup>4</sup>, Angela R. Blissett<sup>1</sup>, Weizhong Chang<sup>1</sup>, Elena Makareeva<sup>5</sup>, Sergey Leikin<sup>5</sup>, David Eyre<sup>3</sup>, Mitsuo Yamauchi<sup>4</sup>, Joan C. Marini<sup>1</sup>**

<sup>1</sup>NICHD, NIH, USA, <sup>2</sup>NIEHS, NIH, USA, <sup>3</sup>University of Washington, Seattle, WA, USA  
<sup>4</sup>University of North Carolina, Chapel Hill, NC, USA, <sup>5</sup>Physical Biochemistry, NICHD, NIH, USA

**PPIB KO MOUSE: DIRECT EFFECTS ON COLLAGEN FOLDING AND GLYCOSYLATION, AND INDIRECT EFFECT ON LH1, ALTERING BONE CROSSLINK PATTERNS**

11:40 L-19

**Hans Peter Bächinger, Yoshi Ishikawa, Sergei Boudko, Elena Pokidysheva**

Shriners Hospital for Children, Portland, OR, USA

**THE ROLE OF PPIASES DURING PROCOLLAGEN BIOSYNTHESIS**

12:00 L-20

**Wanyun Xi, Chang Li, Hao Yu, Yih-Cherng Liou**

National University of Singapore, Singapore

**PIN1AT FUNCTIONS IN PLANT DEVELOPMENT**

12:20 - 14:00 Lunch break

### Session 3

Chair: Maria Fiammetta Romano

14:00 L-21

**Nwe Nwe Soe<sup>1</sup>, Mark Sowden<sup>1</sup>, Padmamalini Baskaran<sup>2</sup>, Yeonghwan Kim<sup>1</sup>, Patrizia Nigro<sup>3</sup>, Elaine M. Smolock<sup>1</sup>, Bradford C. Berk<sup>1</sup>**

<sup>1</sup>University of Rochester School of Medicine and Dentistry, Rochester, NY, USA, <sup>2</sup>University of Wyoming, Laramie, WY, USA, <sup>3</sup>Laboratorio di Biologia Vascolare e Medicina Rigenerativa, Centro Cardiologico Monzino-IRCCS, Milano, Italy

**ACETYLATION OF CYCLOPHILIN A IS REQUIRED FOR ITS SECRETION AND SIGNALING IN VASCULAR CELLS**

14:45 L-22

**Peter Seizer, Saskia von Ungern-Sternberg, David Heinzmann, Christine S. Zuern, Andreas E. May**

Universitätsklinikum Tübingen, Tübingen, Germany

**CYCLOPHILIN A AND ITS EXTRACELLULAR RECEPTOR EMMPRIN (CD147) IN ISCHEMIC AND INFLAMMATORY CARDIOMYOPATHIES**

**15:15 - 17:15 Microsymposium/Poster session I and coffee break**

**Session 3 continued**

Chair: Steven D. Hanes

17:15 **L-23**

**Jiyoung Oh, Zhong Jian Shen, James S. Malter**

University of Texas Southwestern Medical Center, Dallas, TX, USA

**PIN1-FADD INTERACTIONS REGULATE FAS-MEDIATED APOPTOSIS IN ACTIVATED EOSINOPHILS**

17:45 **L-24**

**Takafumi Uchida**

Tohoku University, Sendai, Japan

**SIGNIFICANCE OF PIN1- AND GAS7-KNOCK OUT MOUSE CREATION**

18:05 **L-25**

**Ana Y. Mercedes-Camacho, Guoyan G. Xu, Ashley B. Mullins, Matthew D. Mason, Felicia A. Etzkorn**

Virginia Tech, Blacksburg, VA, USA

**PIN1: INHIBITORS AND MECHANISM**

18:25 **L-26**

**Guy Lippens<sup>1</sup>, Isabelle Landrieu<sup>1</sup>, Caroline Smet<sup>1</sup>, Amina Kamah<sup>1</sup>, Julien Giustiniani<sup>2</sup>, Béatrice Chambraud<sup>2</sup>, Etienne Emile Baulieu<sup>2</sup>**

<sup>1</sup>Université de Lille, Villeneuve d'Ascq, France, <sup>2</sup>Institut National de la Santé et de la Recherche Médicale, Le Kremlin-Bicêtre Cedex, France

**CONFORMATIONAL PROPERTIES OF THE PROLINES IN (PHOSPHORYLATED) TAU**

**Saturday, September 21**

**Session 4**

Chair: Franz. X. Schmid

8:30 **L-27**

**Xiao Zhen Zhou, Kun Ping Lu**

Harvard Medical School, Boston, MA, USA

**THE PROLYL ISOMERASE PIN1 AS A SIGNALING REGULATOR AND A DRUG TARGET IN CANCER AND ALZHEIMER'S DISEASE**

9:15 **L-28**

**Steven D. Hanes**

SUNY Upstate Medical University, Syracuse, NY, USA

**THE ESS1 PROLYL ISOMERASE CONTROLS TRANSCRIPTION BY RNA POLYMERASE II**

9:45 **L-29**

**Leonard Kritharides, Maaike Kockx, Wendy Jessup**

ANZAC Research Institute, University of Sydney, Sydney, Australia

**CYCLOSPORIN A IN ATHEROSCLEROSIS, HYPERLIPIDEMIA, APOE SECRETION, AND REVERSE CHOLESTEROL TRANSPORT**

10:05 - 10:35 Coffee break

**Session 4 continued**

Chair: Guy Lippens

10:35 **L-30**

**Urmi Doshi, Lauren McGowan, Safieh Tork Ladani, Donald Hamelberg**

Georgia State University, Atlanta, GA, USA

**PROBING THE INTRICATE COUPLING BETWEEN ENZYME DYNAMICS AND SUBSTRATE TURNOVER IN CYCLOPHILIN A USING COMPUTER SIMULATIONS**

11:05 **L-31**

**Dorothee Kern**

Brandeis University, Waltham, MA, USA

**THE CHOREOGRAPHY OF AN ENZYME'S DANCE - DYNAMICS DURING PROLYL ISOMERASES CATALYSIS**

11:35 **L-32**

**M. Dujardin<sup>1</sup>, R. Montserret<sup>2</sup>, V. Madan<sup>3</sup>, I. Huvent<sup>1</sup>, H. Launay<sup>1</sup>, A. Leroy<sup>1</sup>, F. Penin<sup>2</sup>, R. Bartenschlager<sup>3</sup>, G. Lippens<sup>1</sup>, X. Hanouille<sup>1</sup>**

<sup>1</sup>Université Lille Nord de France, Lille, France; Université des Sciences et Technologies de Lille, Villeneuve d'Ascq, France, <sup>2</sup>Université Lyon, Lyon, France, <sup>3</sup>University of Heidelberg, Heidelberg, Germany

**THE CYCLOPHILIN A BINDING SITE ON THE INTRINSICALLY DISORDERED DOMAIN 2 OF HCV NS5A CONTAINS A SHORT STRUCTURAL MOTIF THAT IS ESSENTIAL FOR VIRAL REPLICATION**

11:55 **L-33**

**Valentina Bonetto**

Istituto di Ricerche Farmacologiche Mario Negri, Milano, Italy

**CYCLOPHILIN A IS A TRANSLATIONAL BIOMARKER AND A POTENTIAL THERAPEUTIC TARGET FOR AMYOTROPHIC LATERAL SCLEROSIS**

12:15 **L-34**

**Kyoungin Cho, Hemangi Patil, Jessica Wang, Haiqing Yi, Sunny Qiu, Paulo A. Ferreira**

Duke University Medical Center, Durham, NC, USA

**THE CYCLOPHILIN DOMAIN OF RANBP2 HARBORS DISCRIMINATING PHYSIOLOGICAL ACTIVITIES TOWARD DISTINCT BIOLOGICAL SUBSTRATES**



12:35 – 14:00 Lunch break

**Session 5**

Chair: Andreas E. May

14:00 **L-35**

**Jun O. Liu**

Johns Hopkins School of Medicine, Baltimore, Maryland, USA.

**FROM CYCLOPHILIN TO CALCINEURIN TO REGULATORS OF INTRACELLULAR CALCIUM SIGNALING PATHWAYS**

14:30 **L-36**

**Tatiana Iordanskaia<sup>1</sup>, Evan O. Nadler<sup>1</sup>, Dmitri Sviridov<sup>2</sup>, Miroslav Malesevic<sup>3</sup>, Michael Bukrinsky<sup>4</sup>**

<sup>1</sup>Children's National Medical Center, Washington, DC, USA, <sup>2</sup>Baker IDI Heart and Diabetes Institute, Melbourne, Australia, <sup>3</sup>Martin-Luther-University Halle-Wittenberg, Halle (Saale), Germany, <sup>4</sup>George Washington University School of Medicine and Health Sciences, Washington, DC, USA

**TREATING INFLAMMATORY DISEASES WITH EXTRACELLULAR CYCLOSPORINE**

15:00 - 16:50 **Microsymposium/Poster session II and coffee break**

**Session 5 continued**

Chair: Kun Ping Lu

16:50 **L-37**

**Theodora Pappa<sup>1</sup>, Xianke Zeng<sup>1</sup>, Y'vonne Feeney<sup>1</sup>, Charles Clevenger<sup>2</sup>**

<sup>1</sup>Northwestern University, Chicago, IL, USA, <sup>2</sup>Virginia Commonwealth University, Richmond, VA, USA

**NOVEL NON-IMMUNOSUPPRESSIVE CYCLOSPORINE ANALOGUES AS BREAST CANCER THERAPEUTICS**

17:20 **L-38**

**Thomas Ratajczak**

Sir Charles Gairdner Hospital and The University of Western Australia, Nedlands WA, Australia

**STRUCTURE AND MULTIPLE FUNCTIONS OF CYCLOPHILIN 40, A TETRATRICOPEPTIDE REPEAT (TPR) CYCLOPHILIN**

17:40 **L-39**

**Eva Obermayr<sup>1,5</sup>, Dan Cacsire Castillo-Tong<sup>1</sup>, Dietmar Pils<sup>1</sup>, Paul Speiser<sup>1</sup>, Ioana Braicu<sup>2</sup>, Toon Van Gorp<sup>3,6</sup>, Sven Mahner<sup>4</sup>, Jalid Sehouli<sup>2</sup>, Ignace Vergote<sup>3</sup>, Robert Zeillinger<sup>1,5,1</sup>**

<sup>1</sup>Medical University of Vienna, Vienna, Austria, <sup>2</sup>Charité - Universitätsmedizin Berlin, Berlin, Germany, <sup>3</sup>Katholieke Universiteit Leuven, Leuven, Belgium, <sup>4</sup>University Medical Center Hamburg-Eppendorf, Hamburg, Germany, <sup>5</sup>Ludwig Boltzmann Gesellschaft, Vienna, Austria, <sup>6</sup>Present address: Maastricht UMC+, Maastricht, The Netherlands

**CYCLOPHILIN C IN CIRCULATING TUMOR CELLS**

18:00 **L-40**

**Kimio Satoh, Yoshihiro Fukumoto, Koichiro Sugimura, Toru Shimizu, Kota Suzuki, Nobuhiro Kikuchi, Yusuke Takagi, Jun Takahashi, Hiroaki Shimokawa**

Tohoku University Graduate School of Medicine, Sendai, Japan

**CYCLOPHILIN A IS A NOVEL BIOMARKER FOR OXIDATIVE STRESS AND ATHEROSCLEROTIC DISEASES**

18:20 **L-41**

**Franz X. Schmid**

Universität Bayreuth, Bayreuth, Germany

**PROLYL ISOMERIZATION AS A RATE-DETERMINING STEP IN PROTEIN FOLDING AND PROTEIN FUNCTION**

18:40 **L-42**

**Caroline Haupt, Michael Kovermann, Rica Patzschke, Mattias Altenstein, Jochen Balbach**

Martin-Luther-University Halle-Wittenberg, Halle (Saale), Germany

**IN VITRO AND IN VIVO FUNCTION OF THE METALLOCHAPERONE SlyD**

## MICROSYMPOSIA

### Microsymposium I on Friday, September 20

Chair: Jun O. Liu

15:15 – 15:35 Short break

15:35 **P-38**

**Manjusha M. Kulkarni<sup>1</sup>, Anna Karafova<sup>2</sup>, Wojciech Kamysz<sup>2</sup>, Sergio Schenkman<sup>3</sup>, Roger Pelle<sup>4</sup>, Bradford S. McGwire<sup>1</sup>**

<sup>1</sup>The Ohio State University Medical Center, Columbus, OH, USA, <sup>2</sup>Medical University of Gdansk, Gdansk, Poland, <sup>3</sup>Universidade Federal de Sao Paulo, Brazil, <sup>4</sup>International Livestock Research Institute, Nairobi, Kenya

**SECRETED TRYPANOSOME CYCLOPHILIN INACTIVATES LYTIC INSECT DEFENSE PEPTIDES AND INDUCES PARASITE CALCINEURIN ACTIVATION AND INFECTIVITY**

15:43 **P-41**

**Piet Kramer, Andrea Hamann, Verena Warnsmann, Heinz D. Osiewacz**

J. W. Goethe University, Frankfurt, Germany

**ROLE OF CYCLOPHILIN D IN AGING AND LIFESPAN CONTROL OF PODOSPORA ANSERINA**

15:51 **P-32**

**Paul T. M. Lavin, Margaret M. Mc Gee**

Conway Institute, University College Dublin, Ireland

**CHARACTERISATION OF CYCLOPHILIN A LOCALISATION TO THE CENTROSOME AND MIDBODY IN TUMOUR CELLS**

15:59 **P-58**

**Iain McNae, Jacqueline Dornan, Jorge Dias Do Nascimento, Martin Wear, Malcolm Walkinshaw**

Centre for Translational and Chemical Biology, The University of Edinburgh, Scotland, UK

**CYCLOPHILIN IS A CHLORIDE ION SENSOR**

16:07 **P-22**

**Lionel Colliandre<sup>1</sup>, Abdelhakim Ahmed-Belkacem<sup>2</sup>, Muriel Gelin<sup>1</sup>, Yannick Bessin<sup>1</sup>, Jean-Michel Pawlotsky<sup>2</sup>, Jean-François Guichou<sup>1</sup>**

<sup>1</sup>Centre de Biochimie Structurale, CNRS, Montpellier, France, <sup>2</sup>IMRB, Hôpital Henri Mondor, Créteil, France

**RATIONAL DESIGN OF SMALL-MOLECULES INHIBITORS OF HUMAN CYCLOPHILINS AND HCV REPLICATION BY STRUCTURE BASED DRUG DESIGN**

16:15 **P-16**

**Dhruv Shah<sup>1</sup>, Mohit Gupta<sup>1</sup>, Zandrea Ambrose<sup>2</sup>, Orlando Acevedo<sup>3</sup>, Patrick Flaherty<sup>1</sup>**

<sup>1</sup>Duquesne University, Pittsburgh, PA, USA, <sup>2</sup>University of Pittsburgh School of Medicine, Pittsburgh, PA, USA, <sup>3</sup>Auburn University, Auburn, AL, USA

**DESIGN, SYNTHESIS, AND TESTING OF TORSIONALLY RESTRICTED SMALL MOLECULE INHIBITORS OF CYCLOPHILIN A**

16:23 P-14

**Maria Dimou, Aggeliki Skagia, Eleni Vezyri, Chrysoula Zografou, Anastasia Venieraki, Panagiotis Katinakis**

Agricultural University of Athens, Athens, Greece

**PEPTIDYL-PROLYL CIS/TRANS ISOMERASES ARE INVOLVED IN BACTERIAL MOTILITY AND BIOFILM FORMATION - STUDIES ON THE ROLE OF THE CYTOPLASMIC CYCLOPHILIN**

## Microsymposium II on Saturday, September 21

Chair: Felicia A. Etzkorn

15:00 – 15:20 Short break

15:20 P-21

**Steven J. Moss<sup>1</sup>, Jose A. Garcia-Rivera<sup>2</sup>, Pieter Leyssen<sup>3</sup>, Nigel Coates<sup>1</sup>, Udayan Chatterji<sup>2</sup>, Johan Neyts<sup>3</sup>, Philippe Gallay<sup>2</sup>, Barrie Wilkinson<sup>1</sup>, Mikael Brönnegård<sup>4</sup>, Jan Nilsson<sup>4</sup>, Matthew A. Gregory<sup>1</sup>**

<sup>1</sup>Isomerase Therapeutics Ltd., Cambridge, United Kingdom, <sup>2</sup>The Scripps Research Institute, La Jolla, CA, USA, <sup>3</sup>K.U.Leuven, Leuven, Belgium, <sup>4</sup>Neurovive Pharmaceutical AB, Lund, Sweden

**BC556, A POTENT, PAN-GENOTYPIC, HIGH BARRIER TO RESISTANCE, SECOND GENERATION CYCLOPHILIN INHIBITOR FOR TREATMENT OF CHRONIC HCV INFECTION**

15:28 P-62

**Sreekanth Rajan, Amaravadhi Harikishore, Ho Sup Yoon**

Nanyang Technological University, Singapore

**STRUCTURAL INSIGHTS INTO SUBSTRATE AND INHIBITOR BINDINGS BY PFFKBP35 AND PVFKBP35, PEPTIDYLPROLYL CIS-TRANS ISOMERASES FROM HUMAN MALARIAL PARASITES**

15:36 P-53

**Kunchithapadam Swaminathan**

National University of Singapore, Singapore

**STRUCTURAL INSIGHTS OF PLANT IMMUNOPHILINS**

15:44 P-39

**David Dilworth, Neda Savic, Christopher J. Nelson**

University of Victoria, Victoria, BC, Canada

**FUNCTIONS OF NUCLEAR FKBP PROTEINS**

15:52 P-57

**Esteban Vöhringer-Martinez**

Universidad de Concepción, Concepción, Chile

**MECHANISTIC INSIGHTS INTO THE PIN1 CATALYSIS OF CIS/TRANS PEPTIDE ISOMERIZATION**

16:00 P-27

**Nadja Bitomsky<sup>1</sup>, Dirk Sombroek<sup>1</sup>, Christian Moritz<sup>2</sup>, Kathrin Schultheiss<sup>1</sup>, Tilman Polonio-Vallon<sup>1</sup>, Elisa Conrad<sup>1</sup>, Carolina Glas<sup>1</sup>,**

**Fiamma Mantovani<sup>3</sup>, Giannino del Sal<sup>3</sup>, Francesca Peri<sup>2</sup>, Thomas G. Hofmann<sup>1</sup>**

<sup>1</sup>German Cancer Research Center DKFZ-ZMBH Alliance, Heidelberg, Germany, <sup>2</sup>European Molecular Biology Laboratory (EMBL), Heidelberg, Germany, <sup>3</sup>Laboratorio Nazionale CIB (LNCIB), Trieste, Italy

**CONSERVED MECHANISM OF ACTIVATION FOR DNA DAMAGE CHECKPOINT KINASE HIPK2 BY AUTOPHOSPHORYLATION AND PIN1 BINDING**

16:08 P-13

**Alessandra Rustighi, Alessandro Zanini, Elena Campaner, Mattia Garutti, Giannino Del Sal**

National Laboratory CIB (LNCIB), Trieste, Italy

**ROLE OF THE PROLYL-ISOMERASE PIN1 IN BREAST CANCER AGGRESSIVENESS**

POSTERS

Friday, September 20

Session I - posters with odd numbers

Saturday, September 21

Session II - posters with even numbers

- P-01 **Abdelhakim Ahmed-Belkacem, Lionel Colliandre, Nazim Ahnou, Yannick Bessin, Jean-François Guichou, Jean-Michel Pawlotsky**  
INSERM/UPEC Hôpital Henri Mondor, Créteil, France  
**NEW “DRUG-LIKE” CYCLOPHILIN INHIBITORS UNRELATED TO CYCLOSPORINE A POTENTLY INHIBIT HCV REPLICATION AND REVERT HCV-INDUCED MITOCHONDRIAL DYSFUNCTIONS**
- P-02 **Caroline Haupt, Matthias Altenstein, Jochen Balbach**  
Martin-Luther-University Halle-Wittenberg, Halle (Saale), Germany  
**METALL-INDUCED PARAMAGNETIC RELAXATION ON PROTEINS**
- P-03 **Tobias Aumüller, Sandra Liebscher, Miroslav Malesevic, Günther Jahreis, Frank Bordusa, Cordelia Schiene-Fischer**  
Ulm University, Ulm, Germany  
**DEVELOPMENT OF EFFICIENT AND VERSATILE ASSAYS TO QUANTIFY CYCLOPHILIN-INHIBITOR AFFINITY**
- P-04 **Lukas Hoppstock<sup>1</sup>, Martin Könneke<sup>2</sup>, Peter Bayer<sup>1</sup>**  
<sup>1</sup>University of Duisburg-Essen, Essen, Germany, <sup>2</sup>University of Bremen, Bremen, Germany  
**STRUCTURE AND FUNCTION OF ARCHAEL PARVULINS**
- P-05 **Wolfgang Rudolf Christian Beyer<sup>1</sup>, Gerd Hause<sup>2</sup> Gunter Fischer<sup>1</sup>**  
<sup>1</sup>Max-Planck Institute for Biophysical Chemistry Göttingen, BO Halle, Halle (Saale), Germany, <sup>2</sup>Martin-Luther-University Halle-Wittenberg, Halle (Saale), Germany  
**PROBING AGGREGATION KINETICS OF A $\beta$  PEPTIDE FRAGMENTS USING A MINIMAL BACKBONE SUBSTITUTION AND PHOTOISOMERIZATION**
- P-06 **Alessandra Bianchin<sup>1</sup>, Denis Shields<sup>1</sup>, Anthony J. Chubb<sup>1</sup>, Barrie Wilkinson<sup>2</sup>, Angus Bell<sup>3</sup>**  
<sup>1</sup>University College Dublin, Ireland, <sup>2</sup>Isomerase Therapeutics Ltd., UK, <sup>3</sup>Moyne Institute, Trinity College Dublin, Ireland  
**ANTIMALARIAL POTENTIAL OF NON-IMMUNOSUPPRESSIVE ANALOGUES OF RAPAMYCIN**
- P-07 **Annett Boden<sup>1</sup>, Weilin Lin<sup>1</sup>, Sonja Schallenberg<sup>2</sup>, Karsten Kretschmer<sup>2</sup>, Yixin Zhang<sup>1</sup>**  
B CUBE, Technical University Dresden, Germany, <sup>2</sup>CRTD/DFG-Center, Technical University Dresden, Germany  
**LIGHT-SWITCHABLE CYCLOSPORIN A AS TOOL FOR IMMUNOREGULATION**

- P-08 **Thomas Hediger<sup>1</sup>, Boris Féaux de Lacroix<sup>1</sup>, Fabian Kruska<sup>1</sup>, Nadira Dornhof<sup>1</sup>, Cordelia Schiene-Fischer<sup>2</sup>, and Manfred Braun<sup>1</sup>**  
<sup>1</sup>University of Düsseldorf, Düsseldorf, Germany, <sup>2</sup>Martin-Luther-University Halle-Wittenberg, Halle (Saale), Germany  
**ARYL-INDANYL AND ARYL HETARYL KETONES AS NOVEL INHIBITORS OF PPIASES**
- P-09 **A. von Brunn<sup>1</sup>, J. Carbajo-Lozoya<sup>1</sup>, M. Malešević<sup>2</sup>, D. Muth<sup>3</sup>, Y. Ma-Lauer<sup>1</sup>, B. von Brunn<sup>1</sup>, M. Su<sup>1</sup>, M. A. Müller<sup>3</sup>, G. Herrler<sup>4</sup>, C. Schwegmann-Weßels<sup>4</sup>, H.-J. Thiel<sup>5</sup>, T. Baumert<sup>6</sup>, J. Haas<sup>7</sup>, C. Drosten<sup>3</sup>, G. Fischer<sup>2</sup>**  
<sup>1</sup>Ludwig-Maximilians-University (LMU) Munich, Germany <sup>2</sup>Martin-Luther-University Halle-Wittenberg, Germany, <sup>3</sup>University of Bonn, Germany, <sup>4</sup>Tierärztliche Hochschule Hannover, Germany, <sup>5</sup>Justus-Liebig Universität Gießen, Gießen, Germany, <sup>6</sup>Université de Strasbourg, France, <sup>7</sup>University of Edinburgh, UK  
**FROM SARS-CORONAVIRUS (SARS-COV) ORFEOME TO CELLULAR TARGETS: INHIBITION OF CYCLOPHILINS BY CYCLOSPORINE A AND NON-IMMUNOSUPPRESSIVE DERIVATIVES RESULTS IN PAN-CORONAVIRAL REPLICATION INHIBITION, INCLUDING THE NEW MERS-COV**
- P-10 **Y. Ma-Lauer<sup>1</sup>, J. Carbajo-Lozoya<sup>1</sup>, M. Malešević<sup>2</sup>, M. A. Müller<sup>3</sup>, G. Fischer<sup>2</sup>, C. Drosten<sup>3</sup>, A. von Brunn<sup>1</sup>**  
<sup>1</sup>Max-von-Pettenkofer Institute, Ludwig-Maximilians-University Munich, Germany, <sup>2</sup>Martin-Luther-Universität Halle-Wittenberg, <sup>3</sup>Institute of Virology, University of Bonn, Germany  
**REPLICATION INHIBITION OF HUMAN CORONAVIRUSES SARS-COV, HCOV-NL63 AND HCOV-229E BY THE DRUG FK506**
- P-11 **P. Bustos<sup>1</sup>, A. Perrone<sup>1</sup>, M. Cámara<sup>2</sup>, A. Fuchs<sup>1,3</sup>, M. Postan<sup>1</sup>, S. Moreno<sup>4</sup>, J. Búa<sup>1,3</sup>**  
<sup>1</sup>INP "Dr. M. Fátala Chaben" A.N.L.I.S.- Malbrán, Argentina, <sup>2</sup>IDIM-CONICET, Argentina; <sup>3</sup>CAECIHS, UAI, Argentina, <sup>4</sup>CTEGD, University of Georgia, USA  
**A MITOCHONDRIAL CYCLOPHILIN FROM *TRYPANOSOMA CRUZI* AND ITS ROLE IN PROGRAMMED CELL DEATH**
- P-12 **Steffi Stöhr<sup>1</sup>, Lisa Sandmann<sup>1</sup>, Stephanie Pfänder<sup>2</sup>, Michael P. Manns<sup>1</sup>, Eike Steinmann<sup>2</sup>, Thomas von Hahn<sup>1,3</sup>, Sandra Ciesek<sup>1</sup>**  
<sup>1</sup>Department of Gastroenterology, Hepatology and Endocrinology, Hannover Medical School, <sup>2</sup>Division of Experimental Virology, Medical School Hannover (MHH) and Helmholtz Centre for Infection Research (HZI), Hannover, Germany, <sup>3</sup>Institute for Molecular Biology, Hannover Medical School, Hannover, Germany  
**HOST MTORC1 SIGNALING IS REQUIRED FOR HEPATITIS C VIRUS (HCV) RNA REPLICATION**

- P-13 **Alessandra Rustighi<sup>1,2</sup>, Alessandro Zanini<sup>1,2</sup>, Elena Campaner<sup>1,2</sup>, Mattia Garutti<sup>1,2</sup>, Giannino Del Sal<sup>1,2,3</sup>**  
<sup>1</sup>National Laboratory CIB (LNCIB), Trieste, Italy, <sup>2</sup>University of Trieste, Trieste, Italy  
**ROLE OF THE PROLYL-ISOMERASE PIN1 IN BREAST CANCER AGGRESSIVENESS**
- P-14 **Maria Dimou, Aggeliki Skagia, Eleni Vezyri, Chrysoula Zografou, Anastasia Venieraki, Panagiotis Katinakis**  
Agricultural University of Athens, Athens, Greece  
**PEPTIDYL-PROLYL CIS/TRANS ISOMERASES ARE INVOLVED IN BACTERIAL MOTILITY AND BIOFILM FORMATION – STUDIES ON THE ROLE OF THE CYTOPLASMIC CYCLOPHILIN**
- P-15 **Franziska Todt, Zeynep Cakir, Frank Reichenbach, Frank Edlich**  
Albert-Ludwigs-Universität Freiburg, Freiburg, Germany  
**RETROTRANSLOCATION OF BAX AND BAK FROM THE MITOCHONDRIA INTO THE CYTOSOL**
- P-16 **Dhruv Shah<sup>1</sup>, Mohit Gupta<sup>1</sup>, Zandrea Ambrose<sup>2</sup>, Orlando Acevedo<sup>3</sup>, Patrick Flaherty<sup>1</sup>**  
<sup>1</sup>Duquesne University, Pittsburgh, USA, <sup>2</sup>University of Pittsburgh School of Medicine, Pittsburgh, USA <sup>3</sup>Auburn University, Auburn, USA  
**DESIGN, SYNTHESIS, AND TESTING OF TORSIONALLY RESTRICTED SMALL MOLECULE INHIBITORS OF CYCLOPHILIN A**
- P-17 **R. Gopalakrishnan<sup>1</sup>, S. Gaali<sup>2</sup>, X. Feng<sup>2</sup>, C. Kozany<sup>2</sup>, B. Hoogeland<sup>2</sup>, A. Bracher<sup>2</sup>, F. Hausch<sup>2</sup>**  
<sup>1</sup>École Polytechnique Fédérale de Lausanne, Switzerland, <sup>2</sup>Max-Planck-Institut for Psychiatry Munich, Germany  
**EVALUATION OF SYNTHETIC FK506 ANALOGS AS LIGANDS FOR THE FK506-BINDING PROTEINS 51 AND 52**
- P-18 **Y. Wang<sup>1</sup>, S. Gaali<sup>2</sup>, A. Kirschner<sup>2</sup>, A. Fabian<sup>2</sup>, R. Gopalakrishnan<sup>2</sup>, C. Kress<sup>2</sup>, B. Hoogeland<sup>2</sup>, U. Koch<sup>2</sup>, C. Kozany<sup>2</sup>, A. Bracher<sup>2</sup>, F. Hausch<sup>2</sup>**  
<sup>1</sup>EMBL, <sup>2</sup>Max-Planck-Institut for Psychiatry Munich, Germany  
**INCREASING LIGAND EFFICIENCY BY CONFORMATIONAL CONTROL**
- P-19 **Himal K. Ganguly, Gautam Basu**  
Department of Biophysics, Bose Institute, Kolkata, India  
**CH... $\pi$  INTERACTION MEDIATED STABILIZATION OF C/S-PEPTIDYL-PROLYL BOND**



- P-20 **Julien Giustiniani<sup>1</sup>, Béatrice Chambraud<sup>1</sup>, Elodie Sardin<sup>1</sup>, Omar Dounane<sup>1</sup>, Kevin Guillemeau<sup>1</sup>, Hiroko Nakatani<sup>1</sup>, Dominik Paquet<sup>2,3</sup>, Amina Kamah<sup>4</sup>, Isabelle Landrieu<sup>4</sup>, Guy Lippens<sup>4</sup>, Etienne Emile Baulieu<sup>1</sup>, Marcel Tawk<sup>1</sup>**

<sup>1</sup>Institut National de la Santé et de la Recherche Médicale, Le Kremlin-Bicêtre Cedex, France, <sup>2,3</sup>Leopoldina Research Fellow, Tessier-Lavigne Laboratory, The Rockefeller University, New York, USA, <sup>4</sup>Université de Lille1, Villeneuve d'Ascq, France

**PHYSIO-PATHOLOGICAL RELEVANCE OF FKBP52 AND TAU CONNECTION**

- P-21 **Steven J. Moss<sup>1</sup>, Jose A. Garcia-Rivera<sup>2</sup>, Pieter Leyssen<sup>3</sup>, Nigel Coates<sup>1</sup>, Udayan Chatterji<sup>2</sup>, Johan Neyts<sup>3</sup>, Philippe Gallyat<sup>2</sup>, Barrie Wilkinson<sup>1</sup>, Mikael Brönnegård<sup>4</sup>, Jan Nilsson<sup>4</sup>, Matthew A. Gregory<sup>1</sup>**

<sup>1</sup>Isomerase Therapeutics Ltd., Cambridge, UK, <sup>2</sup>The Scripps Research Institute, La Jolla, USA, <sup>3</sup>Rega Institute for Medical Research, K.U.Leuven, Belgium, <sup>4</sup>Neurovive Pharmaceutical AB, Lund, Sweden

**BC556, A POTENT, PAN-GENOTYPIC, HIGH BARRIER TO RESISTANCE, SECOND GENERATION CYCLOPHILIN INHIBITOR FOR TREATMENT OF CHRONIC HCV INFECTION**

- P-22 **Lionel Colliandre<sup>1</sup>, Abdelhakim Ahmed-Belkacem<sup>2</sup>, Muriel Gelin<sup>1</sup>, Yannick Bessin<sup>1</sup>, Jean.-Michel Pawlotsky<sup>2</sup>, Jean.-François Guichou<sup>1</sup>**

<sup>1</sup>Centre de Biochimie Structurale, Montpellier 1, France, <sup>2</sup>IMRB, Hôpital Henri Mondor, Créteil, France

**RATIONAL DESIGN OF SMALL-MOLECULES INHIBITORS OF HUMAN CYCLOPHILINS AND HCV REPLICATION BY STRUCTURE BASED DRUG DESIGN**

- P-23 **D. Heinzmann<sup>1</sup>, P. Seizer<sup>1</sup>, S. von Ungern-Sternberg<sup>1</sup>, H. Sturhan<sup>1</sup>, T. Schönberger<sup>1</sup>, K. Klingel<sup>2</sup>, G. Fischer<sup>3</sup>, Z. Kaya<sup>4</sup>, A. E. May<sup>1</sup>**

<sup>1</sup>Medizinische Klinik III, Universitätsklinikum Tübingen, Germany, <sup>2</sup>Institute of Molecular Pathology, Universitätsklinikum Tübingen, Germany, <sup>3</sup>Max Planck Research Unit for Enzymology of Protein Folding, Halle (Saale), Germany, <sup>4</sup>Department of Cardiology, Universitätsklinikum Heidelberg, Germany

**INHIBITION OF EXTRACELLULAR CYCLOPHILIN A DIMINISHES LEUKOCYTE INFILTRATION AND MYOCARDIAL REMODELLING IN A MOUSE MODEL OF AUTOIMMUNE MYOCARDITIS**

- P-24 **Morkos A. Henen<sup>a,b</sup>, Cillian Byrne<sup>c</sup>, Amina Khama<sup>a</sup>, Isabelle Landrieu<sup>a,b</sup>, Guy Lippens<sup>a</sup>, Yves Jacquot<sup>c</sup>**

<sup>a</sup>CNRS, Lille1 University, France, <sup>b</sup>Institute de Recherches interdisciplinaires, VILLENEUVE D'ASCQ, France, <sup>c</sup>Pierre and Marie Curie University, Paris, France

**NMR AND DRUG DESIGN STUDIES OF INTERACTION BETWEEN FKBP52-PPIASE DOMAIN & POTENTIAL PEPTIDE AND PSEUDOPEPTIDE SUBSTRATES**

- P-25 **Erik Hinze<sup>1</sup>, Wolfgang Rudolf Christian Beyer<sup>2</sup>, Angelika Schierhorn<sup>3</sup>, Cordelia Schiene-Fischer<sup>3</sup>**  
<sup>1</sup>Max Planck Research Unit for Enzymology of Protein Folding, Halle (Saale), Germany <sup>2</sup>Max-Planck Institute for Biophysical Chemistry Göttingen, BO Halle, Germany, <sup>3</sup> Martin-Luther-University Halle-Wittenberg, Halle (Saale), Germany  
**INCORPORATING A REVERSIBLE CIS/TRANS PEPTIDE BOND PHOTOSWITCH INTO THE BACKBONE OF *E. COLI* PARVULIN 10**
- P-26 **Henrik Hoffmann<sup>1</sup>, Mario Träger<sup>2</sup>, Cordelia Schiene-Fischer<sup>1</sup>**  
<sup>1</sup>Martin-Luther-University Halle-Wittenberg, Halle (Saale), Germany, <sup>2</sup>Max Planck Research Unit for Enzymology of Protein Folding, Halle (Saale), Germany  
**CYP60 AND CYP57 - HUMAN MULTIDOMAIN CYCLOPHILINS COMPLEMENTED WITH DIFFERENT FUNCTIONAL DOMAINS**
- P-27 **Nadja Bitomsky<sup>1</sup>, Dirk Sombroek<sup>1</sup>, Christian Moritz<sup>2</sup>, Kathrin Schultheiss<sup>1</sup>, Tilman Polonio-Vallon<sup>1</sup>, Elisa Conrad<sup>1</sup>, Carolina Glas<sup>1</sup>, Fiamma Mantovani<sup>3</sup>, Giannino del Sal<sup>3</sup>, Francesca Peri<sup>2</sup>, Thomas G. Hofmann<sup>1</sup>**  
<sup>1</sup>German Cancer Research Center (dkfz) DKFZ-ZMBH Alliance, Heidelberg, Germany, <sup>2</sup>European Molecular Biology Laboratory (EMBL), Heidelberg, Germany, <sup>3</sup>Laboratorio Nazionale CIB (LNCIB), Trieste, Italy  
**CONSERVED MECHANISM OF ACTIVATION FOR DNA DAMAGE CHECKPOINT KINASE HIPK2 BY AUTOPHOSPHORYLATION AND PIN1 BINDING**
- P-28 **Yun Huang<sup>1,2</sup>, Günther Jahreis<sup>1</sup>, Christian Lücke<sup>1</sup>, Gunter Fischer<sup>1,3</sup>**  
<sup>1</sup>Max Planck Research Unit for Enzymology of Protein Folding, Halle (Saale), Germany, <sup>2</sup>Present address: University of Pennsylvania, Philadelphia, USA, <sup>3</sup>Present address: Max-Planck Institute for Biophysical Chemistry, Göttingen, BO Halle, Germany  
**SELENOXO PEPTIDE BOND: NEW TOOL TO STUDY THE STRUCTURE AND FUNCTION OF PEPTIDE BACKBONE**
- P-29 **A. März, A. Kirschner, A. Fabian, C. Kozany, A. Bracher, F. Hausch**  
Max-Planck-Institut für Psychiatrie München, Germany  
**LARGE FK506-BINDING PROTEINS CONTRIBUTE TO THE PHARMACOLOGY OF RAPAMYCIN**
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