International Symposium on

Cyclophilins and other Foldases: Cell Signaling Catalysts and Drug Targets

Halle (Saale), Germany,

September 19-21, 2013

CONFERENCE MATERIAL

CONFERENCE VENUE

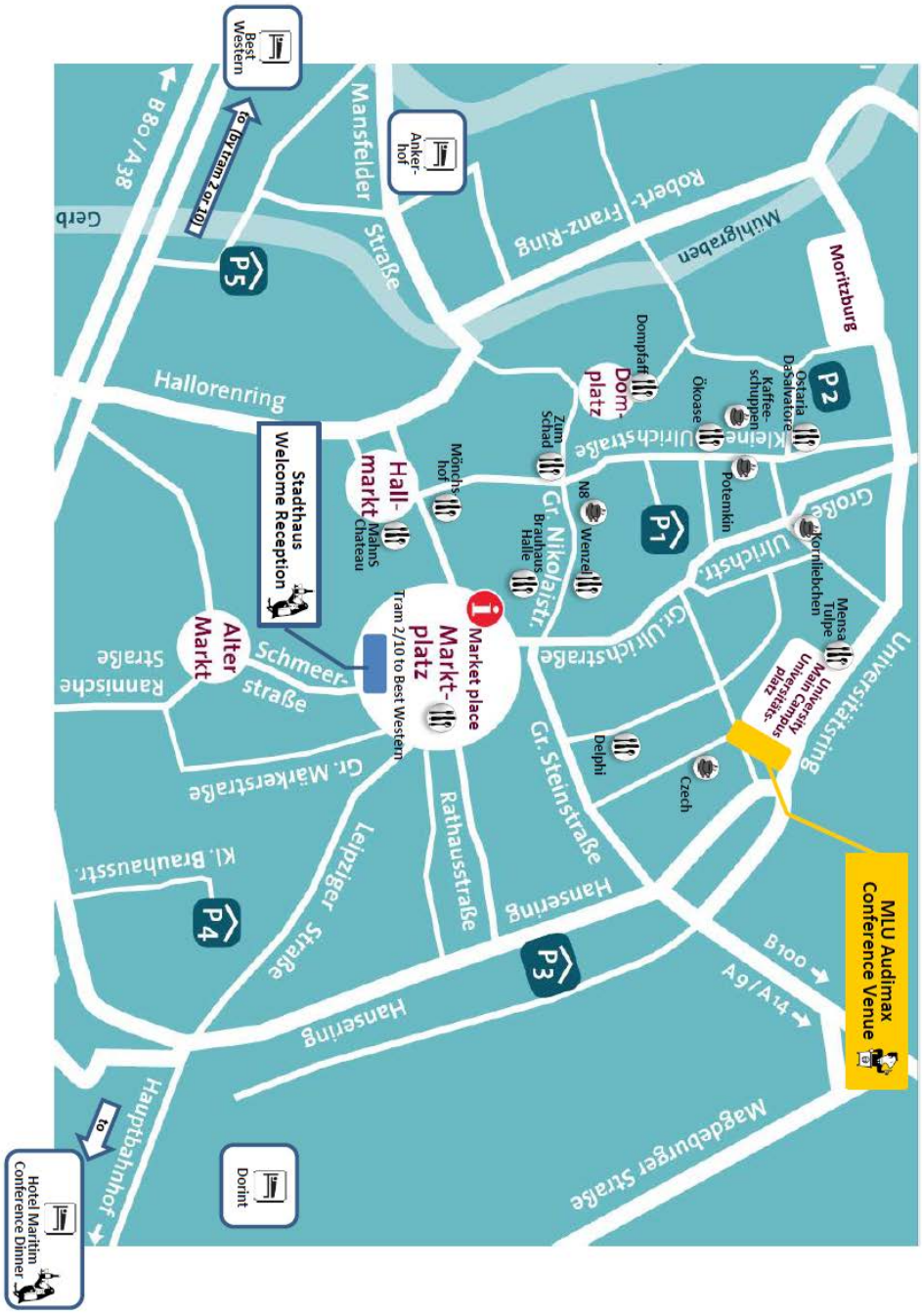
The symposium will be held at

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

SCYNEXIS Inc.

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Fonds der Chemischen Industrie

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 19th to 22th, 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 Soltauer 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.

Symposium Schedule		
Thursday, September 19	**Friday, September 20**	**Saturday, September 21**
	Registration open from 7:30 a.m.	**Registration open from 7:30 a.m.**
	Session 2	**Session 4**
	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)	
Conference registration open from 11 a.m.	**9:50 - 10:20** **Coffee break**	**10:05 - 10:35** **Coffee break**
	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)
Conference posters will be on display for the duration of the conference	11:00 - 11:20 Patrizia Nigro (L-17)	11:35 - 11:55 Xavier Hanoulle (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)	
	12:20-14:00 **Lunch break**	**12:35-14:00** **Lunch break**
Session 1	**Session 3**	**Session 5**
14:00-14:20 **Opening remarks and history** 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)	**15:15 – 17:15** **Microsymposium I** **and coffee break**	**15:00-16:50** **Microsymposium II** **and coffee break**
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)
15:55 – 16:25 **Coffee break**	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[1], Sarah Mosier[1], Bernard Scorneaux[1], Ann Sluder[1], Koichi Watashi[2], Katyna Borroto-Esoda[1]
[1]Scynexis Inc., Durham, NC, USA, [2]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[1], Béatrice Chambraud[1], Marcel Tawk[1], Julien Giustiniani[1], Geri Meduri[1], Guy Lippens[2]
Institut National de la Santé et de la Recherche Médicale, Le Kremlin-Bicêtre Cedex, France, [2]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 α–SYNUCLEIN, A KEY PLAYER IN PARKINSON'S DISEASE

17:35 **L-08**

Mariana Lagadari[1], Cristina Daneri[1], Luciana Gallo[1], Graciela Piwien-Pilipuk[1], Mario Galigniana[1,2]

[1]Instituto de Biología y Medicina Experimental (IBYME) Buenos Aires, Argentina, [2]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[1], Shannon Hill[2], Matt Scaglione[3], Carl Cotman[4], Henry Paulson[3], Martin Muschol[2], Vladimir Uversky[2, 6], Torsten Klengel[7], Elisabeth Binder[7], Rakez Kayed[8], Todd Golde[5], Nicole Berchtold[4], Chad Dickey[1]

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

FKBP51 COORDINATES WITH HSP90 TO FACILITATE NEURO-DEGENERATION 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[1], Anita Yakkundi[1], Angelos Papaspyropoulos[4], Hannah Harrison[3], Matthew P. Ablett[3], Puthen V. Jithesh[5], Hayley D. McKeen[1], Rachel Bennett[1], Christopher Donley[1], Adrien Kissenpfennig[2], Helen O. McCarthy[1], Eric O'Neill[4], Robert B. Clarke[3], Tracy Robson[1]

[1,2] Queen's University Belfast, Belfast, United Kingdom, [3]University of Manchester, Manchester, United Kingdom, [4]University of Oxford, Oxford, United Kingdom, [5]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 FKBPs 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[1], Can Ünal[1], Janine Rasch[1], Kai Schwedhelm[2], Alexandra Thiele[3], Matthias Weiwad[3], Kristian Schweimer[4], Gunter Fischer[6], Cornelius Faber[5]

[1]Technische Universität Braunschweig, Braunschweig, Germany, [2]University of Würzburg, Würzburg, Germany, [3]Martin Luther University Halle-Wittenberg, Halle (Saale), Germany, [4]Universität Bayreuth, Bayreuth, Germany,[5] Universitätsklinikum Münster, Münster, Germany, [6]MPI BPC Göttingen, BO Halle, Germany

FUNCTION OF LEGIONELLA PNEUMOPHILA MIP DURING HUMAN INFECTION

10:40 **L-16**

Katharina Ernst[1], Eva Kaiser[1], Cordelia Schiene-Fischer[2], Holger Barth[1]

[1]University of Ulm Medical Center, Ulm, Germany, [2]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[1], Stefania Straino[2], Giulio Pompilio[1], Bradford C. Berk[3], Maurizio C. Capogrossi[2]

[1]Centro Cardiologico Monzino-IRCCS, Milan, Italy, [2]Laboratorio di Patologia Vascolare -IRCCS, Rome, Italy, [3]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[1], Irina Perdivara[2], MaryAnn Weis[3], Masahiko Terajima[4], Angela R. Blissett[1], Weizhong Chang[1], Elena Makareeva[5], Sergey Leikin[5], David Eyre[3], Mitsuo Yamauchi[4], Joan C. Marini[1]

[1]NICHD, NIH, USA, [2]NIEHS, NIH, USA, [3]University of Washington, Seattle, WA, USA [4]University of North Carolina, Chapel Hill, NC, USA, [5]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[1], Mark Sowden[1], Padmamalini Baskaran[2], Yeonghwan Kim[1], Patrizia Nigro[3], Elaine M. Smolock[1], Bradford C. Berk[1]

[1]University of Rochester School of Medicine and Dentistry, Rochester, NY, USA, [2]University of Wyoming, Laramie, WY, USA,[3]Laboratorio di Biologia Vascolare e Medicine Rigenerative, 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[1], Isabelle Landrieu[1], Caroline Smet[1], Amina Kamah[1], Julien Giustiniani[2], Béatrice Chambraud[2], Etienne Emile Baulieu[2]

[1]Université de Lille, Villeneuve d'Ascq, France, [2]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 ATHEROSCEROSIS, 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[1], R. Montserret[2], V. Madan[3], I. Huvent[1], H. Launay[1], A. Leroy[1], F. Penin[2], R. Bartenschlager[3], G. Lippens[1], X. Hanoulle[1]

[1]Université Lille Nord de France, Lille, France; Université des Sciences et Technologies de Lille, Villeneuve d'Ascq, France, [2]Université Lyon, Lyon, France, [3]University of Heidelberg, Heidelberg, Germany

THE CYCLOPHILIN A BINDING SITE ON THE INSTRINSICALLY 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[1], Evan O. Nadler[1], Dmitri Sviridov[2], Miroslav Malesevic[3], Michael Bukrinsky[4]

[1]Children's National Medical Center, Washington, DC, USA, [2]Baker IDI Heart and Diabetes Institute, Melbourne, Australia, [3]Martin-Luther-University Halle-Wittenberg, Halle (Saale), Germany, [4]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[1], Xianke Zeng[1], Y'vonne Feeney[1], Charles Clevenger[2]

[1]Northwestern University, Chicago, IL, USA, [2]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[1,5], Dan Cacsire Castillo-Tong[1], Dietmar Pils[1], Paul Speiser[1], Ioana Braicu[2], Toon Van Gorp[3,6,] Sven Mahner[4], Jalid Sehouli[2], Ignace Vergote[3], Robert Zeillinger[1,5][1]Medical University of Vienna, Vienna, Austria, [2]Charité - Universitätsmedizin Berlin, Berlin, Germany, [3]Katholieke Universiteit Leuven, Leuven, Belgium, [4]University Medical Center Hamburg-Eppendorf, Hamburg, Germany, [5]Ludwig Boltzmann Gesellschaft, Vienna, Austria, [6]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-DETERMING 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[1], Anna Karafova[2], Wojciech Kamysz[2], Sergio Schenkman[3], Roger Pelle[4], Bradford S. McGwire[1]

[1]The Ohio State University Medical Center, Columbus, OH, USA, [2]Medical University of Gdansk, Gdansk, Poland, [3]Universidade Federal de Sao Paulo, Brazil, [4]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[1], Abdelhakim Ahmed-Belkacem[2], Muriel Gelin[1], Yannick Bessin[1], Jean-Michel Pawlotsly[2], Jean-François Guichou[1]

[1]Centre de Biochimie Structurale, CNRS, Montpellier, France, [2]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[1], Mohit Gupta[1], Zandrea Ambrose[2], Orlando Acevedo[3], Patrick Flaherty[1]

[1]Duquesne University, Pittsburgh, PA, USA, [2]University of Pittsburgh School of Medicine, Pittsburgh, PA, USA, [3]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[1], Jose A. Garcia-Rivera[2], Pieter Leyssen[3], Nigel Coates[1], Udayan Chatterji[2], Johan Neyts[3], Philippe Gallay[2], Barrie Wilkinson[1], Mikael Brönnegård[4], Jan Nilsson[4], Matthew A. Gregory[1]
[1]Isomerase Therapeutics Ltd., Cambridge, United Kingdom, [2]The Scripps Research Institute, La Jolla, CA, USA, [3]K.U.Leuven, Leuven, Belgium, [4]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[1], Dirk Sombroek[1], Christian Moritz[2], Kathrin Schultheiss[1], Tilman Polonio-Vallon[1], Elisa Conrad[1], Carolina Glas[1],

Fiamma Mantovani[3], Giannino del Sal[3], Francesca Peri[2], Thomas G. Hofmann[1]

[1]German Cancer Research Center DKFZ-ZMBH Alliance, Heidelberg, Germany, [2]European Molecular Biology Laboratory (EMBL), Heidelberg, Germany, [3]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[1], Martin Könneke[2], Peter Bayer[1]**
[1]University of Duisburg-Essen, Essen, Germany, [2]University of Bremen, Bremen, Germany
STRUCTURE AND FUNCTION OF ARCHAEAL PARVULINS

P-05 **Wolfgang Rudolf Christian Beyer[1], Gerd Hause[2] Gunter Fischer[1]**
[1]Max-Planck Institute for Biophysical Chemistry Göttingen, BO Halle, Halle (Saale), Germany, [2]Martin-Luther-University Halle-Wittenberg, Halle (Saale), Germany
PROBING AGGREGATION KINETICS OF Aβ PEPTIDE FRAGMENTS USING A MINIMAL BACKBONE SUBSTITUTION AND PHOTOISOMERIZATION

P-06 **Alessandra Bianchin[1], Denis Shields[1], Anthony J. Chubb[1], Barrie Wilkinson[2], Angus Bell[3]**
[1]University College Dublin, Ireland, [2]Isomerase Therapeutics Ltd., UK, [3]Moyne Institute, Trinity College Dublin, Ireland
ANTIMALARIAL POTENTIAL OF NON-IMMUNOSUPPRESSIVE ANALOGUES OF RAPAMYCIN

P-07 **Annett Boden[1], Weilin Lin[1], Sonja Schallenberg[2], Karsten Kretschmer[2], Yixin Zhang[1]**
B CUBE, Technical University Dresden, Germany, [2]CRTD/DFG-Center, Technical University Dresden, Germany
LIGHT-SWITCHABLE CYCLOSPORIN A AS TOOL FOR IMMUNREGULATION

P-08 **Thomas Hediger[1], Boris Féaux de Lacroix[1], Fabian Kruska[1], Nadira Dornhof[1], Cordelia Schiene-Fischer[2], and Manfred Braun[1]**

[1]University of Düsseldorf, Düsseldorf, Germany, [2]Martin-Luther-University Halle-Wittenberg, Halle (Saale), Germany

ARYL-INDANYL AND ARYL HETARYL KETONES AS NOVEL INHIBITORS OF PPIASES

P-09 **A. von Brunn[1], J. Carbajo-Lozoya[1], M. Malešević[2], D. Muth[3], Y. Ma-Lauer[1], B. von Brunn[1], M. Su[1], M. A. Müller[3], G. Herrler[4], C. Schwegmann-Weßels[4], H.-J. Thiel[5] , T. Baumert[6], J. Haas[7], C. Drosten[3], G. Fischer[2]**

[1]Ludwig-Maximilians-University (LMU) Munich, Germany [2]Martin-Luther-University Halle-Wittenberg, Germany, [3]University of Bonn, Germany, [4]Tierärztliche Hochschule Hannover, Germany, [5]Justus-Liebig Universität Gießen, Gießen, Germany, [6]Université de Strasbourg, France, [7]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[1], J. Carbajo-Lozoya[1], M. Malešević[2], M. A. Müller[3], G. Fischer[2], C. Drosten[3], A. von Brunn[1]**

[1]Max-von-Pettenkofer Institute, Ludwig-Maximilians-University Munich, Germany, [2]Martin-Luther-Universität Halle-Wittenberg, [3]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[1], A. Perrone[1], M. Cámara[2], A. Fuchs[1,3], M. Postan[1], S. Moreno[4], J. Búa[1,3]**

[1]INP "Dr. M. Fatala Chaben" A.N.L.I.S.- Malbrán, Argentina, [2]IDIM-CONICET, Argentina; [3]CAECIHS, UAI, Argentina, [4]CTEGD, University of Georgia, USA

A MITOCHONDRIAL CYCLOPHILIN FROM *TRYPANOSOMA CRUZI* AND ITS ROLE IN PROGAMMED CELL DEATH

P-12 **Steffi Stöhr[1], Lisa Sandmann[1], Stephanie Pfänder[2], Michael P. Manns[1], Eike Steinmann[2], Thomas von Hahn[1,3], Sandra Ciesek[1]**

[1]Department of Gastroenterology, Hepatology and Endocrinology, Hannover Medical School, [2]Division of Experimental Virology, Medical School Hannover (MHH) and Helmholtz Centre for Infection Research (HZI), Hannover, Germany, [3]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[1,2], Alessandro Zanini[1,2], Elena Campaner[1,2], Mattia Garutti[1,2], Giannino Del Sal[1,2,3]**

[1]National Laboratory CIB (LNCIB), Trieste, Italy, [2]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[1], Mohit Gupta[1], Zandrea Ambrose[2], Orlando Acevedo[3], Patrick Flaherty[1]**

[1]Duquesne University, Pittsburgh, USA, [2]University of Pittsburgh School of Medicine, Pittsburgh, USA [3]Auburn University, Auburn, USA

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

P-17 **R. Gopalakrishnan[1], S. Gaali[2], X. Feng[2], C. Kozany[2], B. Hoogeland[2], A. Bracher[2], F. Hausch[2]**

[1]École Polytechnique Fédérale de Lausanne, Switzerland, [2]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[1], S. Gaali[2], A. Kirschner[2], A. Fabian[2], R. Gopalakrishnan[2], C. Kress[2], B. Hoogeland[2], U. Koch[2], C. Kozany[2], A. Bracher[2], F. Hausch[2]**

[1]EMBL, [2]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$\cdots\pi$ INTERACTION MEDIATED STABILIZATION OF *CIS*-PEPTIDYL-PROLYL BOND

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

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

PHYSIO-PATHOLOGICAL RELEVANCE OF FKBP52 AND TAU CONNECTION

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

[1]Isomerase Therapeutics Ltd., Cambridge, UK, [2]The Scripps Research Institute, La Jolla, USA, [3]Rega Institute for Medical Research, K.U.Leuven, Belgium, [4]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[1], Abdelhakim Ahmed-Belkacem[2], Muriel Gelin[1], Yannick Bessin[1], Jean.-Michel Pawlotsly[2], Jean.-François Guichou[1]**

[1]Centre de Biochimie Structurale, Montpellier 1, France, [2]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[1], P. Seizer[1], S. von Ungern-Sternberg[1], H. Sturhan[1], T. Schönberger[1], K. Klingel[2], G. Fischer[3], Z. Kaya[4], A. E. May[1]**

[1]Medizinische Klinik III, Universitätsklinikum Tübingen, Germany, [2]Institute of Molecular Pathology, Universitätsklinikum Tübingen, Germany, [3]Max Planck Research Unit for Enzymology of Protein Folding, Halle (Saale), Germany, [4]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[a,b], Cillian Byrne[c], Amina Khama[a], Isabelle Landrieu[a,b], Guy Lippens[a], Yves Jacquot[c]**

[a]CNRS, Lille1 University, France, [b]Institute de Recherches interdisciplinaires, VILLENEUVE D'ASCQ, France, [c]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[1], Wolfgang Rudolf Christian Beyer[2], Angelika Schierhorn[3], Cordelia Schiene-Fischer[3]**

[1]Max Planck Research Unit for Enzymology of Protein Folding, Halle (Saale), Germany [2]Max-Planck Institute for Biophysical Chemistry Göttingen, BO Halle, Germany, [3] 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[1], Mario Träger [2], Cordelia Schiene-Fischer[1]**

[1]Martin-Luther-University Halle-Wittenberg, Halle (Saale), Germany, [2]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[1], Dirk Sombroek[1], Christian Moritz[2], Kathrin Schultheiss[1], Tilman Polonio-Vallon[1], Elisa Conrad[1], Carolina Glas[1], Fiamma Mantovani[3], Giannino del Sal[3], Francesca Peri[2], Thomas G. Hofmann[1]**

[1]German Cancer Research Center (dkfz) DKFZ-ZMBH Alliance, Heidelberg, Germany, [2]European Molecular Biology Laboratory (EMBL), Heidelberg, Germany, [3]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[1,2], Günther Jahreis[1], Christian Lücke[1], Gunter Fischer[1,3]**

[1]Max Planck Research Unit for Enzymology of Protein Folding, Halle (Saale), Germany, [2]Present address: University of Pennsylvania, Philadelphia, USA, [3]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 for Psychiatry Munich, Germany

LARGE FK506-BINDING PROTEINS CONTRIBUTE TO THE PHARMACOLOGY OF RAPAMYCIN

P-30 **M. Kockx[1], E. Glaros[2], T. W. Ng[3], P. J. Meikle[3], V. Deswaerte[4], W. Jessup[1], L. Kritharides[1,5]**

[1]ANZAC Research Institute, Sydney, [2]Centre for Vascular Research, UNSW, Sydney, [3]Metabolomics, Baker IDI Heart and Diabetes Institute, Melbourne, [4]Vascular Biology & Atherosclerosis, Baker IDI Heart and Diabetes Institute, Melbourne, [5]University of Sydney, Sydney, Australia

CYCLOSPORIN A CAUSES HYPERLIPIDEMIA IN THE LDLRKNOCKOUT MOUSE

P-31 **Lorenz Korbinian Kollmannsberger, Nils Christian Gassen, Theo Rein**
Max-Planck Institute of Psychiatry, Munich, Germany
DOES FKBP51 REGULATE GR TRANSCRIPTIONAL ACTIVITY BY RECRUITING KINASES AND PHOSPHATASES?

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

P-33 **Alfons Lawen[1], Tony Velkov[1,2]**
Monash University, [1]Department of Biochemistry and Molecular Biology, School of Biomedical Sciences and [2]Monash Institute of Pharmaceutical Sciences, Melbourne, Australia
FUNCTIONAL AND STRUCTURAL CHARACTERIZATION OF THE *N*-METHYLTRANSFERASE MODULES IN CYCLOSPORIN SYNTHETASE

P-34 **Darren Leneghan, Angus Bell**
Moyne Institute of Preventive Medicine, Trinity College Dublin, Dublin 2, Ireland
IMMUNOPHILIN-PROTEIN INTERACTIONS IN THE MALARIA PARASITE, *PLASMODIUM FALCIPARUM*

P-35 **Weilin Lin, Yixin Zhang**
B CUBE, Center for Molecular Bioengineering, Technical University Dresden, Germany
A REINVESTIGATION OF CYCLOPHILIN - CYCLOSPORIN BINDING KINETICS

P-36 **Yoan Monneau[1], Heddy Soufari[1], Christopher Nelson[2], Cameron Mackereth[1]**
[1]European Institute of Chemistry and Biology, Bordeaux, France, [2]University of Victoria, Canada
STRUCTURE OF YEAST FPR4 CATALYTIC DOMAIN AND HISTONE H3 PROLINE ISOMERIZATION

P-37 **Miroslav Malešević**
Martin-Luther-University Halle Wittenberg, Halle (Saale), Germany
SYNTHESIS OF A LIBRARY OF CYCLOSPORIN A (CSA) ANALOGUES *VIA* ALDEHYDE DIAMINE "CLICK" CHEMISTRY

P-38 **Manjusha M. Kulkarni[1], Anna Karafova[2], Wojciech Kamysz[2], Sergio Schenkman[3], Roger Pelle[4], Bradford S. McGwire[1]**
[1]The Ohio State University Medical Center, Columbus, USA, [2]Medical University of Gdansk, Gdansk, Poland, [3]Universidade Federal de Sao Paulo, Brazil, [4]International Livestock Research Institute, Nairobi, Kenya
SECRETED TRYPANOSOME CYCLOPHILIN INACTIVATES LYTIC INSECT DEFENSE PEPTIDES AND INDUCES PARASITE CALCINEURIN ACTIVATION AND INFECTIVITY

P-39 **David Dilworth, Neda Savic, Christopher J. Nelson**
University of Victoria, Victoria, BC, Canada
FUNCTIONS OF NUCLEAR FKBP PROTEINS

P-40 **I. H. Norville[1], D. W. Begley[2], D. Fox III[2], D. Jenner[1], F. Seufert[4], C. Juli[4], N. J. Harmer[5], R. Stacy[3], P. J. Myler[3], U. Holzgrabe[4], D. Lorimer[2], M. Sarkar-Tyson[1,6]**
[1]Dstl, Porton Down, Salisbury, UK, [2]Emerald Bio, Bainbridge Island, USA, [3]Seattle Biomed, Seattle, USA, [4]University Würzburg, Germany, [5]University of Exeter, Devon, UK, [6]University of Western Australia, Nedlands, Australia
EVALUATION OF NOVEL INHIBITORS AGAINST *BURKHOLDERIA PSEUDOMALLEI* MIP PROTEIN

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*

P-42 **Rica Patzschke[1], Caroline Haupt, Michael Kovermann, Ulrich Weininger, Stefan Gröger[1] Jochen Balbach[1]**
Martin-Luther-University Halle-Wittenberg, Halle (Saale), Germany
STRUCTURAL INVESTIGATIONS ON ASSISTED PROTEIN FOLDING REACTIONS IN REAL-TIME

P-43 **Judith Toneatto[1], Mario Galigniana[2,3], Graciela Piwien-Pilipuk[1]**
[1]Laboratory of Nuclear Architecture and [2]Laboratory of Nuclear Receptors, Instituto de Biologia y Medicina Experimental (IBYME) & [3]University of Buenos Aires. Buenos Aires, Argentina
PKA DEPENDENT MITOCHONDRIAL –NUCLEAR REDISTRIBUTION OF FKBP51 IS REQUIRED FOR THE CONTROL OF GENE EXPRESSION DURING THE PROCESS OF ADIPOGENESIS

P-44 **Simona Romano, Anna D'Angelillo, Marika Elsa Friano, Paolo D'Arrigo, Rita Bisogni, Maria Fiammetta Romano**
University of Naples - Federico II - Italy
FKBP51 PROMOTES ACETYLATION OF YIN YANG 1 AND REDUCES TRAIL-R EXPRESSION IN MELANOMA

P-45 **G. Rühter[1], M. Baumann[1], K. Dinkel[1], B. Klebl[1], M. Malesevic[3], P. Nussbaumer[1], G. Fischer[2]**
[1]Lead Discovery Center GmbH, Dortmund, Germany [2]Max-Planck Institute for Biophysical Chemistry Göttingen, BO Halle, Germany, [3]Martin-Luther-University Halle-Wittenberg, Germany
SPECIFIC TARGETING OF EXTRACELLULAR CYCLOPHILINS FOR TREATMENT OF INFLAMMATORY DISEASES

P-46 **Miroslav Malesevic[1], Danny Gutknecht[2], Erik Prell[3], Claudia Klein[2], Romana A. Nowak[4], Jan C. Simon[2], Anja Saalbach[2], Cordelia Schiene-Fischer[1]**

[1]Martin-Luther-University Halle-Wittenberg, Halle (Saale), Germany, [2] Leipzig University, Leipzig, Germany, [3]Max Planck Research Unit for Enzymology of Protein Folding, Halle (Saale), Germany, [4]University of Illinois, Illinois, USA

ANTI-INFLAMMATORY EFFECTS OF EXTRACELLULAR CYCLOSPORINS ARE EXCLUSIVELY MEDIATED BY CD147

P-47 **Philipp A. M. Schmidpeter[1], Gabriel Zoldák[1], Tobias Aumüller[2], Günther Jahreis[2], Gunter Fischer[2], Franz X. Schmid[1]**

[1]University of Bayreuth, Bayreuth, Germany, [2]Max-Planck Research Unit for Enzymology of Protein Folding, Halle (Saale), Germany

SEQUENCE SPECIFICITY OF PEPTIDYL-PROLYL ISOMERASES

P-48 **Michael Schumann[1], Miroslav Malešević[2], Sebastian Mathea[1], Wolfgang Haehnel[3]†, Cordelia Schiene-Fischer[2]**

[1]Max-Planck Research Unit for Enzymology of Protein Folding, Halle (Saale), Germany, [2]Martin-Luther-University Halle-Wittenberg, Halle (Saale), Germany, [3]Albert-Ludwigs-University, Freiburg, Germany

REGULATION OF MCM3 CHROMATIN BINDING BY THE PROLYL ISOMERASE PIN1

P-49 **Alexandra Schutkowski[1], Johannes Zerweck[2], Mike Schutkowski[3]**

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PEPTIDE MICROARRAYS FOR RELIABLE IDENTIFICATION OF PHOSPHORYLATION SITES IN HUMAN CYCLOPHILINS, FKBP´S AND PARVULINS

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DEVELOPMENT OF MIP-INHIBITORS

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A NOVEL CYCLOPHILIN D INHIBITOR FOR PREVENTING MUSCLE LOSS CAUSED BY MITOCHONDRIAL STRESS

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EFFECTS OF PIN1 INHIBITION ON HUMAN WILD-TYPE OR P301L TAU-INDUCED HIPPOCAMPAL NEURODEGENERATION IN C57BL/6 MICE

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STRUCTURAL INSIGHTS OF PLANT IMMUNOPHILINS

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A STRATEGY TO INTERFERE WITH OFF-TARGET EFFECTS OF PEPTIDYL PROLYL *CIS/TRANS* ISOMERASE INHIBITORS: DOUBLE HEADED TARGETING IN AN AUTOIMMUNE DISEASE MODEL

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CYCLOPHILIN A ACTIVATES HUMAN PLATELETS VIA EMMPRIN AND PI3-KINASE AND PROMOTES PLATELET ADHESION TO THE VASCULAR WALL

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THE INHIBITION OF AMYLOID B (1-40) AGGREGATION BY CYCLOPHILINS

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MECHANISTIC IN SIGHTS INTO THE PIN1 CATALYSIS OF *CIS TRANS* PEPTIDE ISOMERIZATION

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CYCLOPHILIN IS A CHLORIDE ION SENSOR

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RANBP2 (CYP358) IS A MULTISUBUNIT SUMO E3 LIGASE AND AN UNUSUAL CYCLOPHILIN

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CYCLOPHILIN A INDUCES CHEMOTAXIS INDEPENDENT OF ITS PEPTIDYLPROLYL CIS-TRANS ISOMERASE ACTIVITY

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FKBPL: SECRETION AND REGULATION OF ANGIOGENESIS

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STRUCTURAL INSIGHTS INTO SUBSTRATE AND INHIBITOR BINDINGS BY *PF*FKBP35 AND *PV*FKBP35, PEPTIDYLPROLYL *CIS-TRANS* ISOMERASES FROM HUMAN MALARIAL PARASITES

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