



FEBS Workshop
Protein Modules and Networks in Health and Disease
Seefeld in Tirol (AUSTRIA) September 5 –10, 2009

Organization

Mario Gimona	University of Salzburg (AUT)
Marius Sudol	Weis Center for Research & Mt. Sinai School of Medicine (USA)
Stephan M. Feller	University of Oxford (U.K.)

Introduction

Proteins are grouped into families and super-families, in which individual members perform related, though not identical tasks. The individual family members often share significant portions of structural or sequence similarity, and these regions are thought to function as independently folded “modules” or “domains” capable of performing a specific biochemical reaction or event. The large number of functionally diverse proteins in the proteome can thus be thought of as molecular units built by combining a limited number of structurally stable, folded domains. These modular units can be used as interchangeable parts as they are naturally occurring and functioning units.

The purpose of this workshop is to provide a platform for the interaction and exchange for leading experts and young researchers engaged and interested in the rapidly growing field of modular protein domains. One aim of the workshop is to enhance the generation of refined concepts and working models. In addition, we try to build a bridge between the current biological understanding of protein diversity and underlying strategies that may govern pattern recognition in biological communication, and to familiarize a wider audience with novel concepts and approaches aiming at a deeper understanding of the principles of protein modularity.

The Workshop

Combinatorial and reiterated use of modules and dynamic multiprotein complexes create a vast but finite repertoire of "modularities". These different levels of modularity are studied by biochemical and molecular cell biological methods, but also by comparative analysis in silico, and by genetic manipulations in transgenic animals. A large number of diseases or groups of diseases with comparable phenotypes are caused by functionally equivalent proteins that contain related functional modules, or are part of similarly composed interaction hubs. A future challenge is the translation of bench knowledge about modular proteins and networks into applicable therapeutic tools for molecular medicine. The implications of modular interactions and networks for clinical applications and for the understanding of drug actions will be highlighted.

The workshop will include scientific presentations in the form of oral and poster presentations. The organizers have recruited the leading researchers who have contributed significantly towards the understanding of a certain protein module. At least 1/3 of the participants will be young researchers. Sessions contain 4 oral presentations each, including two main lectures (30 min.) and two short (15 min.) presentations, at least one of which should be given by a younger colleague. Ph.D. students will be particularly encouraged to present their work. Interaction between the participants is further stimulated by poster sessions (all posters are on display for the entire duration of the workshop). There will be ample free time between scientific sessions to enhance personal interaction between all participants.

Invited Speakers

Gary Bader, Gianni Cesareni, Stephan Feller, Andreas Ladurner, Mark Lemmon, Wendell Lim, Xin Lu, Bruce J. Mayer, Michael Overduin, Tony Pawson, Kalle Saksela, Chris Sander, Tom Sawyer, Dev Sidhu, Marius Sudol, Giulio Superti-Furga, Marc Vidal, Steve Winder, Michael Yaffe

SCIENTIFIC PROGRAM (provisional)

Protein Modules and Networks in Health and Disease

DAY 1

14:00 - 19:30
19:30 - 21:00
21:00

September 5

Arrival/Registration
DINNER
Welcome

Opening Lecture by Giulio Superti-Furga

(Title to be announced)

21:45 - open end

Informal get together

DAY 2

SESSION 1

09:00 - 09:30
09:30 - 10:00
10:00 - 10:15
10:15 - 10:30
COFFEE

Protein-Protein Interaction Modules

Lecture Marius Sudol
Lecture Bruce Mayer
short talk # 1
short talk # 2

chair: Marius Sudol

SESSION 2

11:00 - 11:30
11:30 - 12:00
12:00 - 12:15
12:15 - 12:30
12:30 - 14:00
14:00 - 18:30
18:30 - 20:00

Membrane Modules

Lecture Michael Overduin
Lecture Mark Lemmon
short talk # 3
short talk # 4

chair: Michael Overduin

SESSION 3

20:00 - 20:30
20:30 - 21:00
21:00 - 21:15
21:15 - 21:30

PDZ Domain Modules

Lecture Dev Sidhu
Lecture
short talk # 5
short talk # 6

chair: Dev Sidhu

DAY 3

SESSION 4

09:00 - 09:30
09:30 - 10:00
10:00 - 10:15
10:15 - 10:30
COFFEE

SH Domain Modules

Lecture Tony Pawson
Lecture Tomi Sawyer
short talk # 7
short talk # 8

chair: Tony Pawson

SESSION 5

11:00 - 11:30
11:30 - 12:00
12:00 - 12:15
12:15 - 12:30
12:30 - 14:00
14:00 - 18:30
18:30 - 20:00

Kinase Modules

Lecture Gary Bader
Lecture Michael Yaffe
short talk # 9
short talk # 10

chair: Gary Bader

SESSION 6

20:00 - 20:30
20:30 - 21:00
21:00 - 21:15
21:15 - 21:30

Modular Interaction Networks

Lecture Marc Vidal
Lecture
short talk # 11
short talk # 12

chair: Mark Vidal

21:30- open end

POSTER SESSION

DAY 4

September 8

SESSION 7	<u>In silico Computational Methods</u>		chair: Gianni Cesareni
09:00 - 09:30	Lecture	Gianni Cesareni	
09:30 - 10:00	Lecture		
10:00 - 10:15	short talk	# 13	
10:15 - 10:30	short talk	# 14	
COFFEE			
SESSION 8	<u>Signalling Modules I</u>		chair: Stephan Feller
11:00 - 11:30	Lecture	Xin Lu	
11:30 - 12:00	Lecture		
12:00 - 12:15	short talk	# 15	
12:15 - 12:30	short talk	# 16	
12:30 - 14:00	LUNCH		
14:00 - 18:30	OPEN / DIVERSE ACTIVITIES		
18:30 - 20:00	DINNER		
SESSION 9	<u>Signalling Modules II</u>		chair: Wendell Llim
20:00 - 20:30	Lecture	Wendell Lim	
20:30 - 21:00	Lecture		
21:00 - 21:15	short talk	# 17	
21:15 - 21:30	short talk	# 18	
21:30- open end	POSTER SESSION		

DAY 5

September 9

SESSION 10	<u>Organelle Modules</u>		chair: Mario Gimona
09:00 - 09:45	Lecture	Steve Winder	
09:45 - 10:15	Lecture		
10:15 - 10:30	short talk	# 19	
10:30 - 10:45	short talk	# 20	
COFFEE			
SESSION 11	<u>New Motifs, Domains and Modules</u>		chair: Andreas Ladurner
11:15 - 12:00	Lecture	Andreas Ladurner	
12:00 - 12:30	Lecture		
12:30 - 12:45	short talk	# 21	
12:45 - 13:00	short talk	# 22	
12:30 - 15:00	LUNCH		
SESSION 12	<u>Modular Proteomics</u>		chair: Chris Sander
15:00 - 15:30	Lecture	Chris Sander	
15:30 - 16:00	Lecture	Kalle Saksela	
16:00 - 16:15	short talk	#23	
16:15 - 16:30	short talk	#24	
16:30 - 17:00	Closing remarks & Poster awards		
19:00 - 20:00	COCKTAILS		
20:00- open end	CONFERENCE DINNER		

DAY 6

September 10

END / DEPARTURE OF DELEGATES

Call for abstracts

Abstracts must be submitted in English before June 15, 2009, to the workshop organizer Mario Gimona (see contact details below) as an attached document in Microsoft Word format. Abstract (maximum 300 words) should be prepared according to the template Word document (downloadable file see registration). All abstracts will be reformatted to a uniform style for printing in the *Abstract Book* of the Workshop. A number of short oral presentations will be selected from the abstracts received.

Poster information

Posters will be on display in a separate room next to the lecture room. The dimensions of the poster board are: 100 cm x 100 cm. Poster boards are soft board requiring pins. Pins and technical equipment will be available.

Registration

The **registration fee is 625 €** and covers full board and lodging at the workshop venue. The registration fee includes:

- * Full Board
- * Accommodation
- * Welcome Reception
- * All meals during the period of the workshop (including tea/coffee breaks)
- * Farewell Dinner
- * Abstract book and information folder
- * Attendance certificate

Deadline for registration is **JUNE 15, 2009**. Attendance is limited to 80.

Application

Application forms are available from:

Dr. Mario Gimona
University of Salzburg, Department of Genetics
Hellbrunnerstrasse 34, 5020 Salzburg
AUSTRIA

Email: mario.gimona@sbg.ac.at

Fax: +43 662 8044 5519

Meeting web site: www.proteinmodules.org

FEBS Youth Travel Fellowships (YTFs)

12 *FEBS* youth travel funds fellowships are available to assist young scientists to attend the workshop. Applications for YTFs must include an abstract for the workshop, a CV, a summary of research interests and reasons for requiring support, and a letter of recommendation.

Travel & Accommodation

How to travel:

Arrival by car:

Highway A95 Munich - Garmisch Partenkirchen
B2 Mittenwald - B 313 Seefeld Exit "Seefeld Mitte"
or
Highway A8 / A93 Munich - Kufstein
A 12 Innsbruck, Exit "Zirl Ost", B 313 - Seefeld

Arrival by train:

Trains leave about every hour from the train stations of Munich or Salzburg. The trip takes about 2 (from Munich) to 3 hours (from Salzburg). The train station in Seefeld is 300 m from to the hotel.

Arrival by plane:

Airport Salzburg "*Wolfgang Amadeus Mozart*"
<http://www.salzburg-airport.at>
Airport Innsbruck "*Kranebitten*" 21 km
<http://www.innsbruck-airport.at>
Airport Munich "*Erdinger Moos*" 150 km
<http://www.munich-airport.de>

Distances:

Innsbruck (AUT) 20 km
Bolzano (ITA) 90 km
Munich (GER) 110 km
Salzburg (AUT) 190 km

Shuttle buses

Based on the travel schedules of the participants, shuttle buses departing from Munich airport will be organized to bring the participants to the venue.

The venue

The Workshop will take place at the Hotel Veronika, a small 4-star hotel in the heart of the Tyrolean Alps. Seefeld is situated 20 km north-east of Innsbruck on a picturesque high plateau offering a fascinating view on the nearby northern mountain ridges, and can be reached easily from the airports of Salzburg, Munich and Innsbruck. All participants will be together at the same hotel to enhance interaction. The *Hotel Veronika* offers 42 double rooms, 3 single rooms, 6 suits. All rooms are equipped with bathrooms, hairdryer, safe, minibar, SAT-TV, and telephone. The elegant restaurant with its tasteful interior in the tyrolean style offers both international and tyrolean cuisine. The bar is ideally suited for casual "after-conference" discussions.

Hotel Veronika

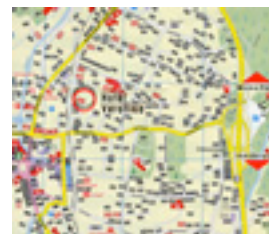
Riehlweg 161, 6100 Seefeld, Austria

Tel: + 43 / 52 12 / 21 05 / Fax: + 43 / 52 12 / 37 87

veronika@seefeld.at

Location

Click on the maps to enlarge:



Contact

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