< interact >

PhD Symposium 2009



life science community munich

PROGRAM

Ludwig-Maximilians-Universität Main Building

Geschwister-Scholl-Platz 1

Munich

April, 2nd 2009

Schedule < interact > 2009

8.00 - 8.45 am	Check-in
9.00 am	Welcome
9.10 - 10.10 am	Student talks I (J. Frauenfeld, A. Faber, A. Biegert)
10.10 - 11.10 am	Keynote lecture Alfred Wittinghofer
11.10 am - 01.00 pm	Coffee break Poster session I (even numbers)
1.00 - 2.00 pm	Lunch
2.00 - 3.20 pm	Student talks II (Y. Kienast, C. Frauer, D. Siepe, D. Paquet)
3.20 - 5.10 pm	Coffee break Poster session II (uneven numbers)
5.10 - 6.10 pm	Keynote lecture Tim Hunt
6.10 - 6.30 pm	Awards - speaker & poster prizes
6.30 - open end	Dinner & Party

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Dear PhD student,

The < interact > organizing committee kindly welcomes you to Munich's 2nd PhD symposium. < interact > 2009 is organized for and by PhD students in line with the previous event in 2007. We are happy to announce that more than 400 PhD students in Munich signed up for today's symposium and will present interesting talks and posters from a broad range of research fields within the sector Life Sciences. This will allow you to set up new networks and to discuss scientific results in an informal, but motivating atmosphere.

The experience and success of the first < interact > symposium in 2007 were the ideal starting point for us to initiate a follow-up event nine months ago. The composition of experienced and newly recruited organizers was perfect in order to improve this year's PhD symposium. We decided for a different location being now in the center of Munich, were able to convince two renowned and outstanding keynote speakers to join our event and redesigned our website - just to mention some changes.

To further improve the next < interact > in 2010, we would be grateful for your feedback. Please mail to:

info@interact-munich.org

We wish you an exciting day and hope that you will be inspired by other PhD students - **interact!**

Your organizing team

Organizing committee



Viola Maier Dorothee Neukirchen Christiane Simon Nicole Zimmermann Heidi Söllner

Elisa Bianchi Judy Ng Michael Stieß

Sonja Nieratschker Marsilius Mues Holger Pflicke



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Marcus Leinweber Katharina Mayer Imke Helling

Almut Graebsch Elmar Czeko Claudia Blattner

Maximiliane Hilger, Anne Kreile, Jonathan Mackinnon & Anne Schümann



Welcome by the Major of Munich

Nach wie vor zählt die Region München nicht nur deutschland-, sondern europaweit zu den ersten Life Science-Adressen. Geprägt wird der exzellente Rang und Ruf des Standorts von den zahlreichen universitären und außeruniversitären Wissenschaftsund Forschungseinrichtungen in und um München, von den beiden Münchner Elite-Universitäten, der Ludwig-Maximilians-Universität und der Technischen Universität München,



von den Life Science-Clustern in Martinsried und Weihenstephan, den Max-Planck-Instituten für Biochemie, Neurobiologie und Psychiatrie, dem Helmholtz Zentrum München, den fast 200 Unternehmen der Life Science-Branchen, die im Großraum München ansässig sind, sowie der Vielzahl von unternehmensnahen Dienstleistern und Venture Capital Firmen in unserer Stadt.

Nicht zu vergessen das BioM Clusternetzwerk, das zusammen mit der Bio-Tech-Region München im Jahr 2007 als "ausgewählter Ort" im bundesweiten Innovationswettbewerb "365 Orte im Land der Ideen" ausgezeichnet wurde.

Als Motor der erfolgreichen Entwicklung hat sich hier aber auch die enge Zusammenarbeit zwischen den verschiedenen natur- und biowissenschaftlichen Forschungseinrichtungen sowie den Anwendungszentren und Unternehmen aus dem Health-Care- und Life Science- Sektor erwiesen. Das alles schafft auch für das zweite <interact>-Munich PhD Symposium, das sich ebenfalls der Förderung des interdisziplinären Austauschs junger Doktoranden und renommierter wissenschaftlicher Fachleute verschrieben hat, einen geradezu maßgeschneiderten Rahmen. Sehr gerne habe ich dafür wieder, wie schon für die Premiere 2007, die Schirmherrschaft übernommen und wünsche auch der Nachfolgeveranstaltung 2009 einen vollen Erfolg!

Colle Christian Ude

Welcome by the Chairman of the Max-Planck-Society



Cooperation becomes more and more crucial for innovative research. Gone are the days when researchers single-handedly made groundbreaking discoveries. Works of genius like those from Gregor Mendel, a monk who discovered the laws of heredity in the garden of his monastery, Albert Einstein, who established the theory of relativity on his kitchen table or Robert Koch, a country doctor who identified the anthrax pathogen in his tiny laboratory, are almost



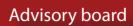
unthinkable today. Research is about teamwork within an institute and beyond institutional boundaries - albeit individual creativity is still an essential condition within the team.

A recent article in Nature (Vol. 455, October 9, 2008) examined the fact that less than 1% of papers are written by single authors today. They are also much less frequently referred to than team publications. It was also shown that teaming up with someone from another institution produces work that is more often cited and has greater impact, on average, than teaming up with someone from down the corridor. To a great extent, inter-institutional collaboration also appears to be highly creative and successful.

This is why I am delighted to see Munich's life sciences doctoral students endeavoring to establish contact between the city's various research institutions. The Interact Symposium represents an excellent opportunity for this. I am particularly pleased that the initiators and organizers are students at the Max Planck Institutes of Biochemistry, Neurobiology and Psychiatry. Dear students,

the symposium not only provides an opportunity to present your own research and to get to know the work of your colleagues. It might also lay the foundation for successful research projects after the completion of your doctoral studies. I hope that you have an interesting and inspiring day!

Peter Gruss







Peter Becker Adolf-Butenandt-Institute Faculty of Medicine LMU Munich



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Acknowledgements



The organizing committee would like to thank all the people and institutions whose support and continuous help were so essential for us. Otherwise a 2nd < interact > symposium would not have been possible.

Special thanks go to:

Claudius Coenen (Abstract booklet)

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Mr Markert, Mrs Leyerer, Mrs Müller and Mrs Baumann (Accounting)

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Keynote speaker Tim Hunt

What Tim Hunt liked about Chemistry at school was his teacher's emphasis on principles, rather than facts. This became a defining feature of his science later on in life. He established a simple principle of cell cycle regulation: entry into mitosis requires the making of an enzyme, and getting out of mitosis requires its destruction. These cell cycle regulatory enzymes



are known as cyclins and their associated cyclin-dependent protein kinases as CDKs.

When Tim started his scientific career in 1964 as a biochemistry PhD student in Cambridge he had no idea that he would end up studying the cell cycle. His primary interest lay in the control of translation of mRNA. Using rabbit reticulocytes for studies of haemoglobin synthesis he learned to appreciate the advantages of simple model systems. He found that ribosomes are evenly spaced along globin mRNA, and never formed a queue, unless forced to do so. After his PhD in 1968 he moved to New York and continued to work on translational control where he made the curious discoveries that addition of tiny amounts of oxidized glutathione or double-stranded RNA entirely killed protein synthesis in reticulocyte lysates. Years later the effect of oxidized glutathione was linked to a loss of reduced NADP and glucose-6-phosphate involving the action of thioredoxin and thioredoxin reductase. Concerning the inhibition by dsRNA, it was most striking that high levels of dsRNA did not inhibit protein synthesis although amounts as low as one molecule per lysed cell equivalent were sufficient to be effective - early signs of RNAi looming on the horizon. It eventually turned out that inhibitory protein kinases lay behind the control of haemoglobin synthesis.

Keynote speaker Tim Hunt



Towards the end of the 1970s Tim concentrated on changes in protein synthesis in sea urchin and clam eggs after fertilization. In 1982 a simple experiment changed his scientific life. Asking the question whether the proteins made after fertilisation were the same as the ones made after parthenogenetic activation of the eggs, he noticed a protein band in the autoradiographs that, contrary to all the others, got weaker and disappeared. Later that same day, John Gerhart told him about the activity of MPF that he and Marc Kirschner were studying in Xenopus oocytes. MPF activity vanished between meiosis I and meiosis II, and needed new protein synthesis to reappear, potentially linking Tim's discovery on the protein level to a physiological entity. What followed was an extensive characterisation of this and other "cyclins" and finally, in 1986 the cloning and sequencing of sea urchin cyclin B. The activity in Xenopus oocytes was shown to contain a B-type cyclin as well as p34cdc2. For his groundbreaking work, Tim Hunt was awarded the Nobel Prize in Physiology or Medicine in 2001, together with Leland Hartwell and Paul Nurse.

Continuing work on cell cycle control at Cancer Research UK, London, Tim's focus is now on the structure, function and destruction of CDKs that control the onset of mitosis and the return to interphase. Following a chance discovery of the involvement of the calcium-activated protein phosphatase (calcineurin) at fertilization, he is now very interested in how the mitotic phosphorylations put on by CDKs are taken off at the end of mitosis, and how futile cycles are avoided; the flipflop switches that ensure either high kinase activity (in mitosis), or high phosphatase activity (in interphase).

Prof. Hunt will present a talk today entitled:

"Getting In and Out of Mitosis"



Keynote speaker Alfred Wittinghofer

Alfred Wittinghofer studied chemistry and received his PhD degree from the German Wool Research Institute (German acronym: DWI) in Aachen with a dissertation on the chemical synthesis of insulin. In 1971 he became a postdoctoral fellow at the University of North Carolina, where his main research interest was the modification of proteins. In 1974 he returned to Germany to work as a research staff member at the Max Planck Institute for Medical Research in Heidelberg. In 1980 he became a group



leader and focused on the structure-function relationship of oncoproteins and on GTP-binding proteins. In 1992 he qualified as professor at the University of Heidelberg. Since 1993 he has been head of the Department of Structural Biology at the Max Planck Institute of Molecular Physiology in Dortmund.

The subjects of his work at the MPI in Dortmund are functional, mechanistic and structural studies on GTP-binding proteins and their regulatory factors and effectors.

The GTP-binding oncoprotein Ras is a signal transduction protein and controls intracellular signalling networks, that regulate several processes eg. proliferation, differentiation, apoptosis, and cell migration. Ras acts as a binary molecular switch, that can signal-dependently be turned on by Guanine nucleotide exchange factors (GEFs) and GTP-binding or turned off by GTPase activating proteins (GAPs) and GDP-binding. Point-mutations can lead to unlimited cell growth and cancer. Wittinghofers group analyses Ras´ conformational changes by X-ray and NMR methods and was thereby able to solve the three-dimensional structure of Ras-GTP and to describe the conformational change in GTP-binding proteins. His group could also describe interactions of Ras with GAPs, GEFs and effectors like GAP-mediated GTP hydrolysis-mechanisms and why the reaction is blocked in oncogenic mutants of Ras. The studies of the structure of Ras-effector complexes and their thermodynamics are a starting point for the development of anti-Ras drugs.

Keynote speaker Alfred Wittinghofer



Another small GTPase, Ran, which is a nuclear transport regulator, is also characterized in Wittinghofers department to elucidate its role in nuclear transport. The structure of the Ran-RCC1 (GEF) complex and the mechanism of the GEF reaction are investigated by structural and kinetic studies and the Ran-RanGAP interaction by structural and biochemical analysis. Also the mechanism of the RanGAP mediated reaction and studies on Ran-effector complexes like Ran-Importin and Ran-RanBD are part of Wittinghofers work and led to a high number of published structures and explanatory mechanistic models.

Another topic of his science are structural and mechanistic studies on effectors of Rac, Cdc42 and Rho, such as WASP, PAK and mDIA and the activation of effectors. Also structural studies on bacterial GEFs and GAPs for eukaryotic Rho proteins are developed in Wittinghofers group.

His group also investigates the Human Guanylate Binding Protein as a model for polymerizing GTP-binding proteins. Other projects deal with the filament-forming Septins, with the function of Arl proteins and with the structures of Arl2/3 and complex with PDE.

Alfred Wittinghofer is honorary professor of biochemistry in the Department of Chemistry of the Ruhr University Bochum since 1993. He has received several awards, including the Jouis-Jeantet Prize (2001), the German Cancer Prize (2003), and the Otto Warburg Medal of the Society for Biochemistry and Molecular Biology (2003).





Jens Frauenfeld

Gene Center, LMU Munich

Cryo-EM of an active 70S ribosome-SecYEG complex in its membrane environment (poster no. 36)



Amory Faber

Biocenter, LMU Munich

Solving the Tower of Hanoi Puzzle effects of frontal lobe damage (poster no. 32)



Andreas Biegert

Gene Center, LMU Munich

Homology searching beyond BLAST (poster no. 10)

PhD student talks II





Yvonne Kienast

Neurooncology, Clinical center LMU Munich

Brain metastasis formation: Real-time imaging reveals mandatory, inefficient and unsuccessful steps (poster no. 73)



Carina Frauer

Biocenter, LMU Munich

A versatile non-radioactive assay for DNA methyltransferase activity and DNA binding (poster no. 37)



Dirk Siepe

MPI of Biochemistry

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(poster no. 117)

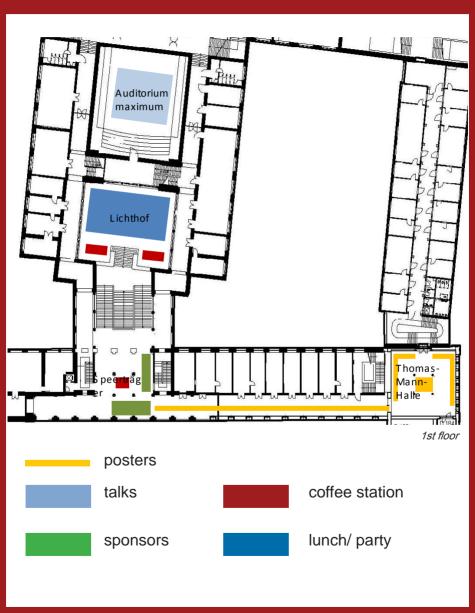


Dominik Paquet

Adolf-Butenandt-Institute, LMU Munich

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Today, the best PhD student talk and the best posters in the categories "fascinating science", "interesting method" and "best presentation" will be awarded. There are a prizes waiting for you like a digital SLR camera from Olympus.

You are the jury today!

Every participant of the < interact > symposium can vote:

First, vote for the best speaker!

Then vote for the best posters out of more than 100 presented posters by writing down the poster number on the ballot paper which is in your symposium's bag. At the entrance of the Audimaximum will be a voting box where you can drop your ballots.

What should you jugde?

Please do not rate the quality of the results alone. The design and the layout of the poster/ talk is as important as the motivation, the comprehensibility of the study and the enthusiasm of the presenter.

Please keep these criteria in your mind being a presenter yourself! We expect your votes to be fair without favouring your friends or colleagues.

The winners will be announced before the beginning of the party!

Good luck!



Dear Interactee,

Did you enjoy < interact > 2009?

Do you like the idea of a PhD symposium in Munich?

Are you interested in taking part in the organization of the next < interact > in 2010?

The organizing committee consists of PhD students from several institutes being in different stages of their PhD studies. Therefore, we have a constant turn-over within the committee and are always looking for other PhD students who are interested to join us and to take over.

If you are interested to experience what it means to organize a PhD symposium with around 400 participants, to meet PhD students from other institutes and to "interact",

then do not hesitate and just get in contact with us.

info@interact-munich.org



How to get home?

Subway U3

Universität -> Olympia-Einkaufszentrum

Uhr		٨	Nontag	- Do	nners	tag	
19	01	06	11	16	21	26	31*
	36	46	56				
20	06	16	26	36	46	56	
21	06	16	26	36	46	56	
22	06	16	26	36	46	56	
23	06	16	26	36	46	56	
0	06	16	26	36	56		
1	21	51 49	7				
2	21 ^{V97}						

Universität -> Fürstenried West

Uhr	Montag - Donnerstag							
19	04 ^m	09	14	19	24	29	39	
	49	59						
20	09	19	29	39	49	59		
21	09	19	29	39	49	59		
22	09	19	29	39	49	59		
23	09	19	29	39	49	59ª		
0	09	19	29	39**	49	59*		
1	10	40 ^{V97}						
2	10 ^{V97}							

Subway U6

Universität -> Garching Forschungszentrum

Uhr	Montog - Donnerstog									
19	03 53*	08*	13	18*	23	28	33*	40	43	50
20	00	03	10	13*	20	23	31*	410	51*	
21	01	11	21	31*	41	51*				
22	01	11*	21	31*	41	51*				
23	01	11.	21	31*	41	51*				
0	01	11*	21	31*	41	51*				
1	01*	2100	27 ^{WI?}	57,00						
2	21.8	,,								

Universität -> Klinikum Grosshadern

Uhr	Montag - Donnerstag							
19	01	06	11.	16	21	26	33	
	36	43	46	53	56			
20	03	06	14	24	34	44	54	
21	04	14.	24	34	44	54		
22	04	14	24	34	44	54		
23	04	14	24	34	44	54		
0	04	14	24	34	44	54		
1	10×	24 ^{V97}	49 ^{V97}					
2	10×							

Night bus N40

Universität -> Keilberthstrasse

Uhr	
1	41
2	41
3	41
4	41

Universität -> Solln

Uhr	
1	22
2	22
3	22
4	22

Taxi Leopoldstrasse (Siegestor)

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