

InCeM - RESEARCH TRAINING NETWORK ON <u>IN</u>TEGRATED <u>COMPONENT CYCLING IN EPITHELIAL CELL MOTILITY</u>



Deliverable D6.2

Communication

	Dissei	mination	
Lead	Level	Туре	Delivery Month
JUELICH	PU (Public) CO (Confidential) Cl (Classified)	R (Document, report) DEM (Demonstrator, pilot, prototype) DEC (Websites, patent fillings, videos etc.) OTHER	M38





Deliverable Title: Communication **Dissemination Level:** Public

Grant Agreement: 642866

Project acronym: InCeM

Project title: Research Training Network on Integrated Component Cycling in

Epithelial Cell Motility

Start of the project: 01.01.2015 (48 months)

Work package: WP6
Deliverable number: D6.2

Title of deliverable: Communication

Deliverable due date: 28/02/2018

Date of submission: 28/02/2018

Author(s): Bernd Hoffmann (JUELICH)

Contributors: Rudolf Merkel (JUELICH), Rudolf Leube (UKA), Reinhard Windoffer

(UKA), Christine Kempchen (UKA)

Version: 1.2

DISCLAIMER

This document contains information which is the proprietary to the InCeM Consortium. Neither this document nor the information contained herein shall be used, duplicated or communicated by any means to any third party, in whole or in parts, except with prior written consent of the InCeM Coordinator.

The information in this document is provided "as is", and no guarantee or warranty is given that the information is fit for any particular purpose. The document reflects only the authors' view. The Agency is not responsible for any use that may be made of the information it contains. The user uses the information at its sole risk and liability.

VERSION CONTROL

Version	Date	Author (Name, Institution)	Comments
1.0 13.02.18 Bernd Hoffmann (JUELICH) Fir		First draft	
1.1 19.02.18		Rudolf Leube (UKA), Reinhard Windoffer (UKA), Christine Kempchen (UKA)	Adding information wrt publications and MMCM conference
1.2	1.2 27.02.18 Bernd Hoffmann (JUELICH)		Final version



Table of Contents

1	Disc	ussing results with international experts throughout the program	. 4
	1.1	Presentation of results on conferences	. 4
	1.2	Peer reviewed publications	. 6
	1.3	Invitations of experts on the institute, subgroup and workshop level	. 8
2	Disc	ussing results with international experts during InCeM conference	. 9
	2.1	Invited speakers and program	

1 Discussing results with international experts throughout the program

Presenting and discussing experimental setups, challenges and results is of tremendous importance for every scientific approach. Based on continuous supervision every ESR permanently presents and defends experiments and scientific approaches in weekly lab meetings with other scientists and experts. Furthermore, all ESRs are encouraged to join international conferences and meetings based on achieved results. Every participation is connected with either poster presentation and/or giving a talk. Both are ideal ways to deeply discuss results with international experts. After every joined conference ESRs are additionally responsible to present suggestions and possibly new ideas regarding their projects in their groups. This way of further critical discussion guarantees best input of ideas by international experts. All previous ESR participations and presentations on conferences with international experts are summarized below.

1.1 Presentation of results on conferences

1.1 Presentation of results of		B 1 1/ 1 11	500
Conferences, Workshops, Symposia, Colloquia, Retreats	Host of the training / Place of event	Date and/or duration of the training/event	ESR involved
EMBL symposium "Seeing is Believing - Imaging the Processes of Life"	EMBL Advanced Training Centre (ATC), Heidelberg (Germany)	06.10.2015 - 10.10.2015	ESR9
Workshop "Multi-physics geometric PDE using deformable surfaces: Analysis, modelling, numerics and applications"	University of Sussex (United Kingdom)	04.11.2015 - 06.11.2015	ESR15
CancerGenoics.nl Meeting (CGC) "Molecular and Cellular Aspects of Cancer"	Royal Tropical Institute, Amsterdam (The Netherlands)	19.11.2015 - 20.11.2015	ESR7
Workshop "Chemotaxis Assays and Video Microscopy"	IBIDI, München (Germany)	25.11.2015 - 26.11.2015	ESR1
Mechanobiology Colloquium: Opportunities for Interdisciplinary Research from Molecules to Tissues	Uniklinik RWTH Aachen (Germany)	26.11.2015	ESR3, ESR4
The Sackler Biophysics Symposium on: Physics of Living Systems	Tel Aviv University, Tel Aviv (Israel)	15.12.2015	ESR13
SCCH Forum: people from different projects/teams at SCCH share their knowledge and success in areas such as image processing (including medical imaging), computer vision and machine learning	SCCH in Hagenberg (Austria)	ongoing since January 2016 (once a month)	ESR11
Postgraduate research 1st year poster session: gives an opportunity to introduce your research topic to the wider research community within EEECS, whilst also gaining valuable experience in fielding the types of questions that you may encounter during sessions at conferences.	Queen's University Belfast, Belfast (Ireland)	25.05.2016	ESR10
29th IEEE Conference on Computer Vision and Pattern Recognition (CVPR): attendance at presentations, interactive sessions, plenary talks,	Las Vegas (United States of America)	26.06.2016 - 01.07.2016	ESR10

demos and exhibitions, as well as attendance at two workshops			
relevant to our research: Computer			
Vision for Microscopy Image Analysis and Performance Evaluation of			
Tracking and Surveillance (PETS).			
European Conference on Mathematical and Theoretical	University of Nottingham	11.07.2016 -	ESR12,
Biology (ECMTB 2016) and SMB Annual Meeting	(United Kingdom)	15.07.2016	ESR15
SND PhD Retreat 2016 and poster presentation by ESR7 (no further details on poster title provided)	Biezenmortel (The Netherlands)	15.07.2016 - 17.07.2016	ESR7
Presentation at the UDE/MPI retreat	Essen (Germany)	05.08.2016	ESR9
Irish Machine Vision and Image Processing (IMVIP) 2016 conference: annual event bringing together academics, industry and students from these and related disciplines. We orally presented our paper "Analysis of variable-order interacting multiple model algorithms for cell tracking".	Galway (Ireland)	25.08.2016 - 26.08.2016	ESR10
Workshop "CXXIV European Study Group with Industry (ESGI)"	National Research Council, Rome (Italy)	29.08.2016 - 02.09.2016	ESR12, ESR15
623th WE-Heraus Seminar on Cellular Dynamics	Physikzentrum Bad Honnef (Germany)	04.09.2016 - 07.09.2016	ESR3, ESR4
BioDynamics Workshop 2016	University of Exeter (United Kingdom)	07.09.2016 - 09.09.2016	ESR15
EMBL symposium "Actin in Action: From Molecules to Cellular Functions"	EMBL Advanced Training Centre (ATC), Heidelberg (Germany)	07.09.2016 - 10.09.2016	ESR9
Conference "BioSoft Frontiers: Physics of Soft and Biological Matter"	Weizmann Institute of Science, Rehovot (Israel), Tel Aviv University, Tel Aviv (Israel)	18.09.2016 - 21.09.2016	ESR8, ESR13
Annual meeting of the German Society for Biomaterials	RWTH Aachen University, Aachen (Germany)	28.09.2016 - 01.10.2016	ESR4
Austrian Computer Science Day ACSC2016: an annual assembly that aims to bring together computer scientists across Austria and beyond to improve networking. The special topic this year is Biomedical Computing.	JKU in Linz (Austria)	10.10.2016	ESR11
Joint retreat "Curie meets Hubrecht" between the Hubrecht Institute and Curie Institute with 85 participants. The aim of the retreat was to learn about work done at the different institutes, and to get to know each other better, ultimately as an effort to stimulate collaborations between European researchers.	Doorwerth (The Netherlands)	10.11.2016 - 12.11.2016	ESR7

Southern Africa Mathematical Sciences Association (SAMSA) - Masamu Program	Court Classique and University of Pretoria (South Africa)	18.11.2016 - 27.11.2016	ESR12, ESR15
SPP 1782 Methods in Mechanobiology Workshop	Forschungszentrum Jülich, Jülich (Germany)	2017	ESR4, ESR6, ESR9
2nd Ruhr forum: Chromosomes and cytoskeleton (UDE MPI Retreat)	Essen (Germany)	2017	ESR9
2 nd meeting "When Development meets Cell Biology"	Société Française de Biologie du Développement (SFBD) and Société de Biologie Cellulaire de France (SBCF), Lyon (France)	26.04.2017 - 29.04.2017	ESR3, ESR4
OAGM & ARW Workshop 2017 (Workshop for Vision, Automation & Robotics)	Technical University of Vienna, AIT Austrian Institute of Technology and UAS Technikum Wien, Vienna (Austria)	10.05.2017 - 12.05.2017	ESR14
Dynamics of Living Systems	EMBO, Cargèse (France)	25.09.2017 - 29.09.2017	ESR9
EMBO Workshop Frontiers on cytoskeleton research	Pune, India	29.10.2017 – 01.11.2017	ESR8
2017 Masamu Advanced Study Institute (MASI) and Workshops	Auburn University, Arusha, Tanzania	17.11.2017 - 26.11.2017	ESR12, ESR15
Southern Africa Mathematical Sciences Association Annual Conference 2017	Department of Mathematics at the University of Dar es Salaam (UDSM), Arusha, Tanzania	20.11.2017 - 23.11.2017	ESR12, ESR15
Mechanobiology symposium 2017	Mechanobiology Institute - Singapore	11.12.2017 - 14.12.2017	ESR5, ESR6
Quantitative Biolmaging Conference 2018	Georg-August-Universität Göttingen (Germany)	04.01.2018 - 06.01.2018	ESR11, ESR14
Filaments, Membranes, Cells - and their Interactions	Forschungszentrum Jülich, Jülich (Germany)	28.01.2018 - 31.01.2018	ESR5, ESR6

1.2 Peer reviewed publications

The best way of put scientific results up for discussions is to submit manuscript for publishing in international, peer-reviewed journals. Editorial as well as reviewer comments guarantee deep comparison and discussion with current knowledge. Based on agreed InCeM guidelines all ESRs are obliged to continuously publish their scientific results. At the current stage various manuscripts are already published and even more are either submitted or in preparation. Only already published publications in peer reviewed journals are listed below:

Title of the scientific publication	Authors	Title of the journal / Name of proceedings	Is/will Open Access provided to this publication?
A computational framework for particle and whole cell tracking applied to a real biological dataset	Feng Wei Yang, Chandrasekhar Venkataraman, Vanessa Styles, Verena Kuttenberger, Elias Horn, Zeno von Guttenberg, Anotida Madzvamuse	Journal of Biomechanics	YES - available in Gold Open Access
Projected finite elements for systems of reaction-diffusion equations on evolving spheroidal surfaces	Necibe Tuncer, Anotida Madzvamuse	Communications in Computational Physics	YES - available in Green Open Access
Effects of Plectin Depletion on Keratin Network Dynamics and Organization	Marcin Moch, Reinhard Windoffer, Nicole Schwarz, Raphaela Pohl, Andreas Omenzetter, Uwe Schnakenberg, Fabian Herb, Kraisorn Chaisaowong, Dorit Merhof, Lena Ramms, Gloria Fabris, Bernd Hoffmann, Rudolf Merkel, Rudolf E. Leube	PLOS ONE	YES - available in Green Open Access
A note on how to develop interdisciplinary collaborations between experimentalists and theoreticians	Anotida Madzvamuse, Sharon R. Lubkin	Interface Focus	YES - available in Green Open Access
A robust and efficient adaptive multigrid solver for the optimal control of phase field formulations of geometric evolution law	Yang, F, Venkataraman, C, Styles, V and Madzvamuse, A	Communications in Computational Physics	YES - available in Green Open Access
Stability analysis of reaction-diffusion models on evolving domains: The effects of cross-diffusion	Anotida Madzvamuse, Hussaini Ndakwo, Raquel Barreira	Discrete and Continuous Dynamical Systems	YES - available in Gold Open Access
The bulk-surface finite element method for reaction-diffusion systems on stationary volumes	Anotida Madzvamuse, Andy H.W. Chung	Finite Elements in Analysis and Design	YES - available in Gold Open Access
Analysis of variable- order interacting multiple model algorithms for cell tracking	K. Lomanov, J. Martinez del Rincon, P. Miller & H. Gribben	Proceedings of the 18th Irish Machine Vision and Image Processing conference	YES - available in Green Open Access
Intermediate Filaments as Organizers of Cellular Space: How They Affect Mitochondrial Structure and Function	Nicole Schwarz, Rudolf E. Leube	Cells	YES - available in Green Open Access



A modular and affordable time-lapse imaging and incubation system	Rodrigo Hernandez-Vera, Emil Schwan, Nikos Fatsis- Kavalopoulos	PLOS One	YES - available in Green Open Access
Intracellular Motility of Intermediate Filaments	Rudolf E. Leube, Marcin Moch, Reinhard Windoffer	The Cytoskeleton	YES - available in Green Open Access
Analysis and Simulations of Coupled Bulk-surface Reaction-Diffusion Systems on Exponentially Evolving Volumes	A. Madzvamuse, A. H. Chung	Mathematical Modelling of Natural Phenomena	YES - available in Green Open Access
Active contour models for individual keratin filament tracking	Dmytro Kotsur, Rudolf Leube, Reinhard Windoffer, Julian Mattes	Proceedings (Verlag der Technischen Universität)	YES - available in Green Open Access
Preventing inflammation inhibits biopsy-mediated changes in tumor cell behavior	Maria Alieva, Andreia S. Margarido, Tamara Wieles, Erik R. Abels, Burcin Colak, Carla Boquetale, Herke Jan Noordmans, Tom J. Snijders, Marike L. Broekman, Jacco van Rheenen	Nature Publishing Group	YES - available in Green Open Access
From good to bad: Intravital imaging of the hijack of physiological processes by cancer cells	Saskia J.E. Suijkerbuijk, Jacco van Rheenen	Academic Press	YES - available in Green Open Access
An excitable Rho GTPase signaling network generates dynamic subcellular contraction patterns	Melanie Graessl, Johannes Koch, Abram Calderon, Dominic Kamps, Soumya Banerjee, Tomáš Mazel, Nina Schulze, Jana Kathrin Jungkurth, Rutuja Patwardhan, Djamschid Solouk, Nico Hampe, Bernd Hoffmann, Leif Dehmelt, Perihan Nalbant	Rockefeller University Press	YES - available in Green Open Access

1.3 Invitations of experts on the institute, subgroup and workshop level

In most scientific and non-scientific beneficiary units, invitation programs for national and international experts and local training programmes are installed either on the institute, department or university level. These programs allowed all InCeM beneficiaries to get in contact with experts of relevant fields and our ESRs to deeply discuss their results with these scientists.

The most important programs that were and are intensively used by InCeM ESRs for close interaction with experts are programs offered at:

- Center for Doctoral Studies at RWTH Aachen University, Aachen, Germany
- Aachen Institute for Advanced Study in Computational Engineering Science at Uniklinik RWTH Aachen, Germany
- Helmholtz Research School at Forschungszentrum Jülich, Jülich, Germany
- Feinberg Graduate School at Weizmann Institute of Science, Rehovot, Israel

Deliverable Title: Communication **Dissemination Level:** CO

- Graduate School of Biomedical Science at University of Sussex, Brighton, UK
- Doctoral Programme "Technische Mathematik" at Johann Radon Institute for Computational and Applied Mathematics, Linz, Austria
- Graduate School of Biomedical Sciences at Tel Aviv University, Tel Aviv, Israel
- EPSRC Doctoral Training Centre at the University of Sussex, Brighton, UK
- Graduate School of Life Sciences at Utrecht University, Utrecht, Netherlands
- Uppsala Innovation Centre, Uppsala, Sweden

Furthermore, InCeM has organized already five workshops (typically with one week duration) for deep scientific discussion and further ESR training. On every single workshop all ESRs had to present and defend their results against comments and suggestions of all other ESRs, supervisors and cosupervisors with extraordinary expertise in all InCeM project fields. Of special importance Workshop 2 "Early start-up phase" needs be mentioned. Here, in a joint organization between the Forschungszentrum Jülich, the Uniklinik RWTH Aachen and the Isaac Newton Institute in Cambridge, ESRs were not only trained in basic experimental and theoretical methods but also had the chance to plan and discuss their projects in great detail with more than 100 renowned scientists from all over the world.

2 Discussing results with international experts during InCeM conference

2.1 Invited speakers and program

InCeM has organised the international symposium "Measuring and Modelling Cell Migration" which took place in Vienna (Austria) on 22 and 23 February 2018 right after InCeM Workshop 5 "Final Phase" (19 to 21 February 2018). The symposium intended to bring researchers from the fields of medicine, biology, biophysics, computer science, and mathematics who share an interest in cell migration in contact with all InCeM ESRs. The meeting provided the opportunity for early stage researchers, including all of InCeM ESRs and advanced scientists from academia and industry, as well as internationally acclaimed leaders to engage in interdisciplinary discussions and personal exchange. While all ESRs presented their data as flash talk and poster for further deep discussion, we were pleased to welcome the following renowned experts as keynote speakers:

- Martial Balland, Université Grenoble Alpes (France)
- John Condeelis, Albert Einstein College of Medicine (USA)
- Jacques Demongeot, Université Grenoble Alpes (France)
- Peter Friedl, Radboud Institute for Molecular Life Sciences (The Netherlands)
- Pekka Lappalainen, University of Helsinki (Finland)
- Ulrich Schwarz, University of Heidelberg (Germany)
- Michael Sixt, Institute of Science and Technology (Austria)
- Vic Small, Austrian Academy of Sciences (Austria)

The full program and updates are posted on our website at www.mm.rwth-aachen.de.

The conference booklet incl. the abstracts and poster schedules can be also directly downloaded here: http://www.mm.rwth-aachen.de/assets/booklet-vienna2018.pdf

International Symposium



Measuring and Modelling Cell Migration

Vienna

February 22-23, 2018

Keynote Speakers

Martial Balland
John Condeelis
Jacques Demongeot
Peter Friedl
Pekka Lappalainen
Ulrich Schwarz
Michael Sixt
Vic Small

Coordinator: Rudolf Leube

Local Coordinator: Rupert Ecker

Registration: www.mm.rwth-aachen.de

TISSUE GNOSTICS

Alexander Bershadsky

Leif Dehmelt

Benny Geiger

Hugh Gribben

Zeno von Guttenberg

Bernd Hoffmann

Michael Kozlov

Johan Kreuger

Rudolf Leube

Anotida Madzvamuse

Julian Mattes

Rudolf Merkel

Paul Miller

Bernhard Moser

Perihan Nalbant

Stephanie Portet

Jacco van Rheenen

Sara Thorslund

Reinhard Windoffer







Measuring and Modelling Cell Migration 2018

Thursday, February 22nd

8:00-9:00	Registration Universitätszahnklinik Medizinische Universität Wien Sensengasse 2A (via main entrance) A - 1090 Wien
9:00-9:15	Welcome (Coordinators)

Part 1: Mechanistic unravelling of cell migration in vitro

Chair: Nadieh Kuijpers; Co-chair: Galiya Sakaeva

09:15-10:00	Keynote lecture 1	Pekka Lappalainen "Generation of contractile actomyosin bundles in migrating cells"
10:00-10:07	Flash talks	Nadieh Kuijpers "Cytoskeletal interactions during epithelial cell migration"
10:07-10:14		Anne Pora "Mechanophysical regulation of the keratin network in migrating cells"
10:14-10:21		Galiya Sakaeva "Epithelial cell migration depends on rear end stress fiber tension"
10:21-10:28		Wenhong Li "The molecular basis for filopodia structure, dynamics and functional mechanics"

10:30-11:00	The mentor's lecture	Alexander Bershadsky
		"Dynamic cross talk between microtubules, actomyosin
		cytoskeleton and integrin-mediated adhesions"

11:00-11:30 Coffee break

11:30-12:15	Keynote lecture 2	Michael Sixt "Leukocyte navigation in complex environments"
12:15-12:22		Rutuja Patwardhan "EGF triggers Rho excitability in migrating keratinocytes"
12:22-12:29		Vera Belyaeva "bZIP transcription factors counterbalance each other to tune the cell cortex for macrophage invasive migration"
12:29-12:36		Tanja Maritzen "The endocytic adaptor protein Stonin 1 modulates focal adhesion dynamics"
12:36-12:43		Georgi Dimchev "Morphodynamics of cell edge protrusion in Lamellipodin (Lpd) knockout cells"
12:43-12:50		Julia Ghelman "SKAP2 as new regulator of oligodendroglial migration"

Version 21 February 2018





12:50-12:57	Dmytro Kotsur "Tracking the dynamics of keratin filaments"
12:57-13:04	Roman Yakobenchuk "Image analysis of integrated cytoskeletal network dynamics"
13:04-13:11	Federico Saltarin "Dissecting spatio-temporal Rho GTPase signaling network"

13:15-15:00 Lunch break, 1st poster session (poster 1 – poster 25), tools of the trade

Part 2: Measuring devices and techniques in cell migration Chair: Nikos Fatsis-Kavalopoulos; Co-chair: Roman Yakobenchuk

15:00-15:45	Keynote lecture 3	Martial Balland "Aspects of the mechanics of single cell migration"
15:45-15:52	59	Nikos Fatsis-Kavalopoulos "Methods to study cell to cell interactions using microfabrication and 3D printing"
15:52-15:59		Lea Tomášová "Advanced cell migration assays"
15:59-16:06		Deva Kusuluri "The adhesion GPCR VLGR1 is part of focal adhesion complexes and regulates cell migration"
16:06-16:13		Giovanni Cappello "Is extracellular matrix a pressure sensor?"

16:15-16:45 **Coffee break**

16:45-17:30	Keynote lecture 4	Ulrich Schwarz "Modelling cell spreading on micropatterned substrates"
17:30-17:37	37-17:44	Katerina Lomanov "Real-time tracking of keratinocyte migration and analysis of cell membrane shape changes"
17:37-17:44		Fengwei Yang "Tracking migrating cells"
17:44-17:51		Kritika Sahni "Migration component dynamics in epithelial cell motility"
17:51-17:58	Maike Werner "Substrate curvatures larger than cell size direct mesenchymal stem cell migration"	

18:00-18:30	The mentor's lecture	Benny Geiger
		"The mechanobiology of invasive migration of metastatic
		cancer cells"

Version 21 February 2018

2



Friday, February 23rd

Part 3: Observing cell migration in vivo

Chair: Laura Bornes; Co-chair: Wenhong Li

	· · · · · · · · · · · · · · · · · · ·	<u> </u>
09:00-09:45	Keynote lecture 5	John Condeelis
		"Cell migration phenotypes involved in tumour cell
		dissemination during metastasis"
09:45-09:52	Flash talks	Laura Bornes
		"Monitoring of cancer cell migration in living animals"
09:52-09:59		Shaghayegh Derakhshani
		"Measles virus infected dendritic cell migration in a 3D in
		vitro human airway test system"
09:59-10:06		Vitaly V. Ganusov
		"Difficulties with predicting migration of genetically
		manipulated lymphocytes in monkeys using SPECT scanni
		technology"
10:06-10:13		Andrea Imle
		"Lymphocyte migration in 3D environments shapes HIV-1
		spread"
	T	
10:15-10:45	The mentor's lecture	Jacco van Rheenen
		"In vivo imaging of migration and metastasis"
10:45-11:15	Coffee break	
10:45-11:15	сопее ргеак	
11:15-12:00	V	Peter Friedl
11:15-12:00	Keynote lecture 6	
		"Multiscale analysis of cancer and immune cell migration vitro and in vivo"
		VILIO and in VIVO
12:00-12:07	Flash talks	Maria Akhmanova
12.00 12.07	Trasii tarks	"Modeling epithelial tissue deformation by a migrating ce
12:07-12:14		Marcos Gouveia
12.07 12.14		"Keratin dynamics: Solving PDEs inside moving domains
		using phase field methods"
12:14-12:21		Dirk Alexander Kulawiak
12.17 12.21	2.17 12.21	"Modeling contact inhibition of locomotion of colliding
		windering contact inhibition of locomotion of colliding

12:35-14:30 Lunch break, 2nd poster session (poster 26 – poster 50), tools of the trade

interaction"
Stephanie Portet

Christian Schmeiser

cells: Migrating on micropatterned substrates"

"Transport of intermediate filaments in cells"

"The filament based lamellipodium model – Cell-cell

Version 21 February 2018

12:21-12:28

12:28-12:35

3



Part 4: Data extraction and modelling

Chair: Dmytro Kotsur; Co-chair: Davide Cusseddu

14:30-15:15	Keynote lecture 7	Victor Small (presented by Florian Schur)
		"The cytoskeleton and cell migration: milestones along the
		way"
15:15-15:22 Flas	lash talks	Davide Cusseddu
		"Understanding spatio-temporal dynamics of the
		cytoplasmic network during cell migration"
15:22-15:29		Victor Juma
		"Spatio-temporal dynamics of RhoA-myosin signalling
		pathway"
15:29-15:36		Shore Salle Chota
		"Shaping membranes and actin fibres by forces"
15:36-15:43		Thorsten Auth
		"Complex self-propelled deformable rings: cell-like shapes
		and motility patterns"
15:45-16:15	The mentor's lecture	Rudolf Merkel
		"Physics of cell migration"
16:15-16:45	Coffee break, group pho	oto and poster award
16:45-17:30	Keynote lecture 8	Jacques Demongeot
		"Discrete mesh approach in cell migration and proliferation
		modelling - Examples in gastrulation, feather induction and
		wound healing"
17:30-18:00	The mentor's lecture	Anotida Madzvamuse
		"Recent advances in mathematical modelling of cell
		migration"
18:00-18:15	Closing of the meeting	Coordinators
	·	
19:30-23:30	Conference dinner	Standing dinner incl. guided rooftop tour
		Naturhistorisches Museum Wien - Sauriersaal
		Burgring 7
		A - 1010 Wien

Version 21 February 2018

4