



InCeM - RESEARCH TRAINING NETWORK ON INTEGRATED COMPONENT CYCLING IN EPITHELIAL CELL MOTILITY



Deliverable D6.1

Communication I

Dissemination			
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VERSION CONTROL

Version	Date	Author (Name, Institution)	Comments
1.0	04.04.2017	Rudolf Leube (UKA), Reinhard Windoffer (UKA)	First draft
1.1	14.06.2017	Christine Kempchen (UKA)	Addition of information to chapters 1 to 3 ("Introduction", "Publications" and "Presentations at international meetings")
1.2	28.06.2017	Nadieh Kuijpers (UKA), Anne Pora (UKA), Dmytro Kotsur (SCCH), Roman Yakobenchuk (SCCH)	Contribution to chapter 2 "Project publications" and addition of information to chapter 3 "Presentation at international meetings"

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1 Introduction

One objective of work package 6 “Communication and dissemination” is the presentation of scientific data at international meetings and in publications. These two aspects are object of deliverable D6.1 “Communication I” and covers the period from month 1 (January 2015) until month 30 (June 2017).

2 Project publications

InCeM research results have been published in different project related publications as shown in the table below.

Table 2.1: InCeM project publications

No.	Type	Title of the scientific publication	Authors	Title of the journal / Name of proceedings	Is/will Open Access provided to this publication?
1	Article in Journal	A computational framework for particle and whole cell tracking applied to a real biological dataset	Feng Wei Yang, Chandrasekhar Venkataraman, Vanessa Styles, Verena Kuttenger, Elias Horn, Zeno von Guttenberg, Anotida Madzvamuse	Journal of Biomechanics	YES - available in Gold Open Access
2	Article in Journal	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
3	Article in Journal	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

4	Article in Journal	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
5	Article in Journal	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
6	Article in Journal	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
7	Article in Journal	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
8	Publication in Conference proceedings/ Workshop	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
9	Article in Journal	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

10	Article in Journal	A modular and affordable time-lapse imaging and incubation system	Rodrigo Hernandez-Vera, Emil Schwan, Nikos Fatsis-Kavalopoulos	PLOS One	YES - available in Gold Open Access
11	Chapter in a Book	Intracellular Motility of Intermediate Filaments	Rudolf E. Leube, Marcin Moch, Reinhard Windoffer	The Cytoskeleton	YES - available in Green Open Access
12	Article in Journal	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
13	Publication in Conference proceedings/ Workshop	Active contour models for individual keratin filament tracking	Dmytro Kotsur, Rudolf Leube, Reinhard Windoffer, Julian Mattes	Proceedings of the OAGM&ARW Joint Workshop: Vision, Automation and Robotics	YES - available in Green Open Access

3 Presentations at international meetings

Besides the publication of scientific results, InCeM has been presented to scientists, industry partners and to the general public on different European and international sessions. A complete overview is given in the table below.

Table 3.1: Overview of workshops, conferences and any other (international) meetings on which InCeM results have been presented

Conferences, Workshops, Symposia, Colloquia, Retreats	Host / Place of event	Date of the 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, numeric 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, ESR14
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, 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).	Las Vegas (United States of America)	26.06.2016 - 01.07.2016	ESR10
European Conference on Mathematical and Theoretical Biology (ECMTB 2016) and SMB Annual Meeting	University of Nottingham (United Kingdom)	11.07.2016 - 15.07.2016	ESR12, ESR15

CSND 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
Ruhr forum: Chromosome and cytoskeleton - 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, ESR14
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 (Germany)	03.04.2017 - 06.04.2017	ESR9
OAGM & ARW Joint Workshop 2017 on "Vision, Automation & Robotics"	Technical University of Vienna, AIT Austrian Institute of Technology and UAS Technikum Wien (Austria)	10.05.2017 - 12.05.2017	ESR14

<p>10th European meeting on Intermediate Filaments</p> <p>Poster presentations “Keratin intermediate filament dynamics during epithelial cell migration” (ESR3), “Mechanophysical Regulation of the Keratin Network in Migrating Keratinocytes” (ESR4), “Tracking the Dynamics of Individual Keratin Filaments” (ESR11, ESR14) and “Keratin filament nucleation during desmosome assembly” (UKA, Leube & Windoffer)</p> <p>Presentation “Keratins and Actins: Foes or Friends?” (UKA, Leube)</p>	<p>Le Palais du Grand Large, Saint Malo, France</p>	<p>14.06.2017 - 17.06.2017</p>	<p>ESR4, UKA (Windoffer) for ESR3, ESR11 and ESR14, UKA (Leube)</p>
<p>Symposium “Mechanobiology: How cells and tissues respond to and deal with mechanical stress”</p>	<p>Uniklinik RWTH Aachen (Germany)</p>	<p>07.04.2017</p>	<p>ESR3, ESR4</p>
<p>When Development meets Cell Biology</p>	<p>Société Française de Biologie du Développement (SFBd) and Société de Biologie Cellulaire de France (SBCF), Lyon (France)</p>	<p>26.04.2017 - 29.04.2017</p>	<p>ESR3, ESR4</p>