

Some publications of the research training group that appeared later than 2011

- Fiete Haack, Heiko Lemcke, Roland Ewald, Tareck Rharass and Adelinde M. Uhrmacher (2015): [Spatio-temporal model of endogenous ROS and raft-dependent Wnt/beta-catenin signaling driving cell fate commitment in human neural progenitor cells](#). *PLOS Computational Biology*, 11(3):e1004106.
- Tareck Rharass, Heiko Lemcke, Margareta Lantow, Sergei A. Kuznetsov, Dieter G. Weiss and Daniela Panáková (2014): [Ca²⁺-mediated mitochondrial reactive oxygen species metabolism augments wnt/ \$\beta\$ -catenin pathway activation to facilitate cell differentiation](#). *Journal of Biological Chemistry*, 289: 27937–27951.
- Carolin Mussmann, Rayk Hübner, Michaela Trilck, Arndt Rolfs, and Moritz J. Frech (2014): [HES5 is a key mediator of Wnt-3a-induced neuronal differentiation](#). *Stem Cells Dev.* 23, 1328–1339.
- Alexandra Jaeger, Jana Baake, Dieter G. Weiss and Ralf Kriehuber (2013): [Glycogen synthase kinase-3 \$\beta\$ regulates differentiation-induced apoptosis of human neural progenitor cells](#). *Int J Dev Neurosci*, 31(1):61-68.
- Mathias John, Hans-Jörg Schulz, Heidrun Schumann, Adelinde M. Uhrmacher and Andrea Unger (2013): [Constructing and visualizing chemical reaction networks from pi-calculus models](#). *Formal Aspects of Computing*, 25(5):723-742.
- Heiko Lemcke, Marie-Louise Nittel, Dieter G. Weiss and Sergei .A. Kuznetsov (2013): [Neuronal differentiation requires a biphasic modulation of gap junctional intercellular communication caused by dynamic changes of connexin43 expression](#). *European Journal of Neuroscience*, 38: 2218–2228.
- Heiko Lemcke and Sergei A. Kuznetsov (2013): [Involvement of connexin43 in the EGF/EGFR signalling during self-renewal and differentiation of neural progenitor cells](#). *Cellular Signalling*, 25: 2676–2684.
- Yvonne Schmitz, Katja Rateitschak and Olaf Wolkenhauer (2013): [Analysing the impact of nucleo-cytoplasmic shuttling of beta-catenin and its antagonists APC, Axin and GSK3 on Wnt/beta-catenin signalling](#). *Cellular Signalling*, 25:11, 2210-2221.
- Dagmar Waltemath, Ron Henkel, Robert Hälke, Martin Scharm and Olaf Wolkenhauer (2013): [Improving the reuse of computational models through version control](#). *Bioinformatics*, 29(6): 742-748.
- Clemens Holzhüter, Alexander Lex, Dieter Schmalstieg, Hans-Jörg Schulz, Heidrun Schumann and Marc Streit (2012): [Visualizing Uncertainty in Biological Expression Data](#). Visualization and Data Analysis VDA'12, January 22-26, Burlingame, CA, USA. SPIE Proceedings Volume 8294.
- Martin Luboschik, Christian Tominski, Arne Bittig, Adelinde M. Uhrmacher and Heidrun Schumann (2012): [Towards Interactive Visual Analysis of Microscopic-Level Simulation Data](#). Interactive Visual Analysis of Data (SIGRAD 2012), November 29-30, Växjö, Sweden, pp.91-94.
- Alexandra Jaeger, Dieter G. Weiss, Ludwig Jonas and Ralf Kriehuber (2012): [Oxidative stress-induced cytotoxic and genotoxic effects of nano-sized titanium dioxide particles in human HaCaT keratinocytes](#). *Toxicology*, 296:27–36.
- Orianne Mazemondet, Mathias John, Stefan Leye, Arndt Rolfs and Adelinde M. Uhrmacher (2012): [Elucidating the sources of \$\beta\$ -catenin dynamics in human neural progenitor cell](#). *Plos One*, 7: e42792.

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- Orianne Mazemondet, Rayk Hubner, Jana Frahm, Dirk Koczan, Benjamin Bader, Dieter Weiss, et al. (2011): [Quantitative and kinetic profile of wnt/ \$\beta\$ -catenin signaling components during human neural progenitor cell differentiation](#). *Cellular & Molecular Biology Letters* 16(4): 515–538.
- Christian Lange, Eilhard Mix, Jana Frahm, Anne Glass, Jana Müller, Oliver Schmitt, et al. (2011): [Small molecule gsk-3 inhibitors increase neurogenesis of human neural progenitor cells](#). *Neuroscience Letters* 488: 36–40.
- Simone Frey, Kristin Sott, Maria Smedh, Thomas Millat, Peter Dahl, Olaf Wolkenhauer and Mattias Goksör (2011) : [A mathematical analysis of nuclear intensity dynamics for Mig1-GFP under consideration of bleaching effects and background noise in *Saccharomyces cerevisiae*](#)" *Molecular BioSystems*, 7(1):215-233.
- Dagmar Waltemath, Richard Adams, Daniel A. Beard, Frank T. Bergmann, Upinder S. Bhalla, Randall Britten, Vijayalakshmi Chelliah, Michael T. Cooling, Jonathan Cooper, Edmund Crampin, Alan Garny, Stefan Hoops, Michael Hucka, Peter Hunter, Edda Klipp, Camille Laibe, Andrew Miller, Ion Moraru, David Nickerson, Poul Nielsen, Macha Nikolski, Sven Sahle, Herbert Sauro, Henning Schmidt, Jacky Snoep, Dominic Tolle, Olaf Wolkenhauer and Nicolas Le Novère (2011): [Minimum Information About a Simulation Experiment \(MIASE\)](#). *PLoS Computational Biology* 4(7): e1001122.
- Yvonne Schmitz, Olaf Wolkenhauer and Katja Rateitschak (2011): [Nucleo-cytoplasmic shuttling of APC can maximize beta-catenin/TCF concentration](#). *Journal of Theoretical Biology*, 279(1):132-142.
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- Hans-Jörg Schulz, Steffen Hadlak and Heidrun Schumann (2011): [The Design Space of Implicit Hierarchy Visualizations: A Survey](#). *IEEE Transactions on Visualization and Computer Graphics* 17(4):393-411.
- Hans-Jörg Schulz, Steffen Hadlak and Heidrun Schumann (2011): [Point-Based Visualization for Large Hierarchies](#). *IEEE Transactions on Visualization and Computer Graphics* 17(5): 598-611.
- Dennis Maciuszek and Alke Martens (2011): [A reference architecture for game-based intelligent tutoring](#). In: P.Felicia (Ed.) *Handbook of Research on Improving Learning and Motivation through Educational Games: Multidisciplinary Approaches*, pp. 658-682. Hershey, PA: IGI Global.

- Dennis Maciuszek, Sebastian Ladhoff and Alke Martens (2011): [Content design patterns for game-based learning](#). *International Journal of Game-Based Learning*, 1(3):65-82.
- Arne T. Bittig, Fiete Haack, Carsten Maus and Adelinde M. Uhrmacher (2011): [Adapting Rule-based Model Descriptions for Simulating in Continuous and Hybrid Space](#). 9th International Conference on Computational Methods in Systems Biology (CMSB '11), September 21-23, Paris, France, pp. 161-170.
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- Mathias John, Hans-Jörg Schulz, Heidrun Schumann, Adelinde Uhrmacher and Andrea Unger (2011): [Constructing and Visualizing Chemical Reaction Networks from Pi-Calculus Models](#). *Formal Aspects of Computing* 25(5):723-742.
- Marc Streit, Hans-Joerg Schulz, Alexander Lex, Dieter Schmalstieg and Heidrun Schumann (2011): [Model-Driven Design for the Visual Analysis of Heterogeneous Data](#). *IEEE Transactions on Visualization and Computer Graphics*, 18(6):998-1010.
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- Dagmar Waltemath, Ron Henkel, Holger Meyer and Andreas Heuer (2011): [Das Sombi-Framework zum Ermitteln geeigneter Suchfunktionen für biologische Modelldatenbasen](#). *Datenbank-Spektrum* 11(1):27-36.
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- Alexander Lex, Hans-Jörg Schulz, Marc Streit, Christian Partl and Dieter Schmalstieg (2011): [VisBricks: Multiformal Visualization of Large, Inhomogeneous Data](#). *IEEE Transactions on Visualization and Computer Graphics* 17(12):2291-3000.

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- Simone Frey, Kristin Sott, Maria Smedh, Thomas Millat, Peter Dahl, Olaf Wolkenhauer and Mattias Goksör (2011): [A mathematical analysis of nuclear intensity dynamics for Mig1-GFP under consideration of bleaching effects and background noise in *Saccharomyces cerevisiae*](#). *Molecular BioSystems* 7:215-223.

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- Roland Ewald (2010): [Automatic Algorithm Selection for Complex Simulation Problems](#). PhD Thesis. Faculty of Computer Science and Electrical Engineering, University of Rostock.
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- Alke Martens, Dennis Maciuszek, Géraldine Ruddeck and Martina Weicht (2010): [Plug 'n Train -- A Component Based Approach](#). *Interaction Design and Architecture(s) Journal*, Special issue on "Design Centered and Personalized Learning in Liquid and Ubiquitous Learning Places (DULP): Future Visions and Practical Implementations, pp. 22-36.
- Mathias John (2010): [Reaction Constraints for the Pi-Calculus - A language for the stochastic and spatial modeling of cell-biological processes](#). PhD Thesis. Faculty of Computer Science and Electrical Engineering, University of Rostock.
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- Sabine Zinn, Jutta Gampe, Jan Himmelspach and Adelinde M. Uhrmacher (2010): [A DEVS Model For Demographic Microsimulation](#). Spring Simulation Multiconference, April 11-15, Orlando, FL, USA, pp. 146:1--146:8.
- Dennis Maciuszek, Géraldine Ruddeck and Alke Martens (2010): [Component-based development of educational games: The case of the user interface](#). 4th European Conference on Games-based Learning (ECGBL 2010), October 23-28, Copenhagen, Denmark. pp. 208-217.
- Yvonne Schmitz, Olaf Wolkenhauer and Katja Rateitschak (2010): [Mathematical modelling of nucleo-cytoplasmic shuttling of beta-catenin and its antagonist APC](#). Poster. 11th International Conference on Systems Biology (ICSB2010), October 11-15, Edinburgh, UK.
- Gnuni Karapetyan, Anne-Caroline Schmöle, Anne Brennfürher, Robert Jaster, Anahit Pews-Davtyan, Stefanie Ortinau, Arndt Rolfs, Moritz J. Frech and Matthias Beller (2010): [The Synthesis of Novel Indolylmaleimides and The Biological Activity as GSK-3 \$\beta\$ Inhibitors in Human Neural Progenitor Cells](#). Poster. Gordon Research Conference:

High Throughput Chemistry & Chemical Biology, June 20-25, Les Diablerets, Switzerland.

- Anne-Caroline Schmöle, Lea Maciolek, Anne Brennführer, Robert Jaster, Anahit Pews-Davtyan, Matthias Beller, Arndt Rolfs and Moritz J. Frech (2010): [Novel indolylmaleimide acts as GSK-3 \$\beta\$ inhibitor in human neural progenitor cells](#). Poster. 8th Stem Cell School in Regenerative Medicine, Stockholm, Sweden.
- Tareck Rharass, Margareta Lantow, Heiko Lemcke, Benjamin M. Bader, Bärbel Redlich, Sergei A. Kuznetsov and Dieter G. Weiss (2010): [The Involvement of Reactive Oxygen Species \(ROS\) in the Regulation of Wnt Signaling Pathways](#). Poster. WNT Signaling in Physiology and Disease (WNT 2010), Stockholm, Sweden.
- Lars Schwabe, Youwei Zheng, Andre Homeyer and Thomas Kirste (2010): [Neural Coding of Natural Vestibular Signals](#). Poster. 9th International Neural Coding Workshop (NC 2010), October 29 – November 3, Limassol, Cyprus.
- Mathias John, Cédric Lhousseine, Joachim Niehren and Adelinde Uhrmacher (2010): [The Attributed Pi-Calculus with Priorities](#). *Transactions on Computational Systems Biology XII*, vol. 5945, pp. 13-76.
- Jan Himmelspach, Mathias Röhl and Adelinde M. Uhrmacher (2010): [Component-based models and simulation experiments for supporting valid multi-agent system simulations](#). *Journal of Applied Artificial Intelligence* 24(5): 414-442.
- Hans-Joerg Schulz and Susanne Jürgensmann (2010): [A Visual Survey of Tree Visualization](#). Poster. IEEE VisWeek 2010, October 24-29, Salt Lake City, Utah, USA. **Best Poster Award**.
- Géraldine Ruddeck and Alke Martens (2010): [Communication Patterns in Component-Based ITS](#). IEEE 10th International Conference on Advanced Learning Technologies (ICALT), July 5-7, Sousse, Tunisia, pp.181-185.
- Dennis Maciuszek and Alke Martens (2010): [Computer-Rollenspiele als didaktikübergreifendes Lernspiel-Genre](#). In: *Spielen lernen – Tagungsband der Abschlusskonferenz des Verbundprojektes Alphabit in Zusammenarbeit mit dem 4. Workshop Game-based Learning*, ed. by H.Diener at al. Fraunhofer-Verlag, Stuttgart, pp. 43-57. ISBN 383960186X.
- Clemens Holzhüter, Steffen Hadlak and Heidrun Schumann (2010): [Multi-Level Visualization for the Exploration of Temporal Trends in Simulation Data](#). Poster. Winter Simulation Conference, December 5-8, Baltimore, Maryland, USA.
- Stefan Leye, Mathias John and Adelinde M. Uhrmacher (2010): [A Flexible Architecture for Performance Experiments with the pi-Calculus and its Extensions](#). 3rd International Conference on Simulation Tools and Techniques (ICST), March 15-19, Malaga, Spain. Article No. 35.
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- Ron Henkel and Dagmar Waltemath (2010): [Searching the BioModels Database](#). Software Demonstration at the Integrative Bioinformatics 2010 Symposium, March 22-24, Cambridge, UK.
- Roland Ewald, René Schulz and Adelinde M. Uhrmacher (2010): [Selecting Simulation Algorithm Portfolios by Genetic Algorithms](#). IEEE Workshop on Principles of Advanced and Distributed Simulation (PADS), May 17-19, Atlanta, GA, USA, pp. 48-56.

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- Jana Frahm, Mats-Olof Mattsson and Myrtil Simkó (2010): [Exposure to ELF magnetic fields modulate redox related protein expression in mouse macrophages](#)" *Toxicology Letters* 192(3): 330-336.
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- Clemens Holzhüter, Hans-Jörg Schulz and Heidrun Schumann (2010): [Enriched Heatmaps for Visualizing Uncertainty in Microarray Data](#). Poster. Eurographics Workshop on Visual Computing for Biology and Medicine, Leipzig, Germany.
- Ron Henkel, Dagmar Waltemath and Lukas Endler (2010): [Searching BioModels Database making use of Information Retrieval](#). Poster. International Conference on Systems Biology (ICSB), Cincinnati, Ohio, USA.
- Rayk Hübner, Anne-Caroline Schmöle, Andrea Liedmann, Moritz J. Frech, Arndt Rolfs and Jiankai Luo (2010): [Differentiation of human neural progenitor cells regulated by Wnt-3a](#)" *Biochemical and Biophysical Research Communications* 400(3): 358-362.
- Alexandra Jaeger (2010): [Charakterisierung von Apoptoseprozessen während der Differenzierung von humanen neuronalen VM197-Progenitorzellen in vitro](#). PhD Thesis. Faculty of Mathematics and Natural Sciences, University of Rostock.
- Andrea Unger (2010): [Visual Support for the Modeling and Simulation of Cell Biological Processes](#). PhD Thesis. Faculty of Computer Science and Electrical Engineering, University of Rostock.
- Hans-Jörg Schulz (2010): [Explorative Graph Visualization](#). PhD Thesis. Faculty of Computer Science and Electrical Engineering, University of Rostock.
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- Anne-Cécile Ribou, Tareck Rharass and Jean Vigo (2010): [Looking Through the Microscope: What Can We Learn From Fluorescence Lifetime Measurements About Free Radicals in Living Cells?](#) In: *Handbook of Free Radicals: Formation, Types and Effects*, Chapter 16. Nova Science Publishers, New York, 505-521.
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- Steffen Hadlak, Christian Tominski, Hans-Jörg Schulz and Heidrun Schumann (2010): [Visualization of Attributed Hierarchical Structures in a Spatio-Temporal Context](#). *International Journal of Geographical Information Science* no. 10, vol. 24, 1497-1513.
- Nick Juty, Nicolas Le Novère, Dagmar Waltemath and Christian Knüpfer (2010): [Ontologies for use in Systems Biology: SBO, KiSAO and TEDDY](#).
- Anne-Caroline Schmöle, Anne Brennfürer, Gnuni Karapetyan, Robert Jaster, Anahit Pews-Davtyan, Rayk Hübner, Stefanie Ortinau, Matthias Beller, Arndt Rolfs and Moritz J. Frech (2010): [Novel indolylmaleimide acts as GSK-3beta inhibitor in human neural progenitor cells](#). *Bioorg Med Chem.* no. 18, vol. 18, 6785-6795.
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- T. Millat, S. Frey and O. Wolkenhauer (2010): [How integrals over dynamic signals can unravel characteristic properties of signal transduction pathway](#). Poster. ICMB, Edinburgh, UK.
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- Benjamin Bader (2010): [Spatio-temporal control of Wnt/ \$\beta\$ -catenin signaling during fate commitment of human neural progenitor cells](#). PhD Thesis. Faculty of Mathematics and Natural Sciences, University of Rostock.
- Stefan Rybacki, Jan Himmelspach, Enrico Seib and Adelinde M. Uhrmacher (2010): [Using workflows in M&S software](#). Winter Simulation Conference, Baltimore, MD, USA, 535-545.
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- Stefan Leye, Jan Himmelspach and Adelinde M. Uhrmacher (2009): [A discussion on experimental model validation](#). 11th International Conference on Computer Modeling and Simulation, March 25-27, Cambridge, UK, pp. 161-167. IEEE Computer Society.
- Hans-Jörg Schulz, Steffen Hadlak and Heidrun Schumann (2009): [Point-Based Tree Representation: A new Approach for Large Hierarchies](#). IEEE Pacific Visualization Symposium, PacificVis'09, April 20-23, Beijing, China, pp. 81-88.
- Rayk Hübner, Arndt Rolfs and Jiankai Luo (2009): [Influence of Wnt Signaling on Proliferation and Neuronal Differentiation of Human Neural Progenitor Cells](#). Poster. 6th International Stem Cells School in Regenerative Medicine, Odense, Denmark.
- Michael Fröhlich, Alexandra Jaeger, Dieter G. Weiss and Ralf Kriehuber (2009): [Specific inhibition of Bcl-2 leads to diminished neuronal differentiation in VM197 cells](#). Poster. 19th Annual Conference of the German Society for Cytometry (DGfZ), Leipzig, Germany.
- Alexandra Jaeger, Susanne Klum and Ralf Kriehuber (2009): [Apoptosis susceptibility is reduced in differentiated VM197 cells](#). Poster. 1st Joint Congress of the Swiss and German Societies for Cell Biology – 32nd Annual Meeting of the German Society for Cell Biology (DGZ), Konstanz, Germany.

- Anne-Caroline Schmöle, Anne Brennführer, Anahit Pews-Davtyan, Annegret Tillack, Moritz J. Frech, Matthias Beller, Arndt Rolfs and Stefanie Ortinau (2009): [Inhibition of Glycogen Synthase Kinase-3 \$\beta\$ by novel small molecules activates Wnt signaling in Human Neural Progenitor Cells](#). Poster. 6th Stem Cell School for Regenerative Medicine, Odense, Denmark.
- Anne-Caroline Schmöle, Anne Brennführer, Anahit Pews-Davtyan, Annegret Tillack, Moritz J. Frech, Matthias Beller, Arndt Rolfs and Stefanie Ortinau (2009): [New designed small molecules canonical as Wnt modulators in human neural progenitor cells](#). Poster. 7th Stem Cell School for Regenerative Medicine, Prague, Czech Republic.
- Anne-Cécile Ribou, Tareck Rharass, Jean Vigo and Jean-Marie Salmon (2009): [What Can We Learn From Fluorescence Lifetime Measurements About Free Radicals in Living Cells?](#) – Poster. 19th Annual Conference of the German Society for Cytometry (DGfZ), Leipzig, Germany.
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