

Thomas E. Winkler

Curriculum Vita

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I envision a future where we widely use microtechnology not only to analyze the immense complexity of biological systems, but also for bi-directional interaction. I now hope to leverage my experience – covering microsystems, bioelectrochemistry, and stem cell engineering – to bring this future closer to fruition, with a continued focus on nitrosative stress and the under-served field of neuropsychiatric disorders.

Education

- 08/2011–** **Ph.D. in Bioengineering**, *University of Maryland*, College Park, USA.
02/2017 Fullbright Foreign Fellow & Future Faculty Fellow; GPA 4.0
Thesis *Microsystems Integration Towards Point-of-Care Monitoring of Clozapine Treatment for Adherence, Efficacy, and Safety*
Advisor *Prof. Reza Ghodssi (ghodssi@umd.edu)*
- 10/2005–** »**Diplomingenieur**« (B.S./M.S.) in **Biophysics**, *Johannes Kepler Universität*, Linz, Austria.
01/2011 Nanoscience & -technology Focus; Diploma Exams Passed with Distinction
One-semester ERASMUS exchange program at *Københavens Universitet*, Copenhagen, Denmark
Thesis *Dilute Magnetic Semiconductors: Manipulation of the Carrier Concentration in Ga-Mn-Pnictides*
Advisor *Prof. Alberta Bonanni (alberta.bonanni@jku.at)*

Research Experience

- since **In-vitro Neural Systems lab**, *Kungliga Tekniska Högskolan*, Stockholm, Sweden.
03/2017 Marie Skłodowska-Curie Individual Research Fellow
NEUROVU: REAL-TIME SENSING IN MICROFLUIDIC MODELS OF THE NEUROVASCULAR UNIT
Developing microphysiological models featuring human induced pluripotent stem cell-derived cells for superior biological functionality, easy-to-assemble non-PDMS microfluidics for low sorption, and impedimetric and electrochemical sensing modalities for biophysical and biochemical insight; a large focus of current studies being nitrosative stress
Additional projects and collaborations relate to hydrogel-based materials for neural stem cell culture, evaluation of low-cost fabrication methods for organ-on-chip systems, and bacterial ingrowth on microfabricated devices
Advisor *Prof. Anna Herland (aherland@kth.se)*
- 04/2012–** **MEMS Sensors and Actuators Laboratory**, *University of Maryland*, College Park, USA.
03/2017 **MICROSYSTEMS DEVELOPMENT FOR NEUROPSYCHIATRIC DISORDERS (MiND)**
Developed a BioMEMS device to assist in schizophrenia treatment planning and monitoring, specifically related to the second-line drug clozapine, incorporating biomaterial-enhanced electrochemical sensing of clozapine and impedance cytometry for white blood cell counts
Collaborated on projects relating to studies of biofilm growth and treatment in micro-environments, as well as on label-free immunoassays leveraging *Tobacco Mosaic virus* and impedimetric sensing
Advisor *Prof. Reza Ghodssi (ghodssi@umd.edu)*
- 03/2010–** **n-core group**, *Johannes Kepler Universität*, Linz, Austria.
07/2011 **LOW-TEMPERATURE FERROMAGNETISM IN $Ga_{1-x}Mn_xN$**
Recommissioned a magneto-transport system, manufactured $Ga_{1-x}Mn_xN$ samples by metalorganic vapor phase epitaxy, developed an appropriate contact protocol, and studied the effects of donor-codoping on their structural and electrical properties
Advisor *Prof. Alberta Bonanni (alberta.bonanni@jku.at)*

- 09/2009–01/2010 **Advanced Semiconductor Research group**, *University of California & Lawrence Berkeley National Laboratory*, Berkeley, USA.
 THE INTERPLAY BETWEEN MAGNETISM AND VACANCIES IN $\text{Ga}_{1-x}\text{Mn}_x\text{P}$
 Manufactured $\text{Ga}_{1-x}\text{Mn}_x\text{P}$ samples by ion implantation and pulsed-laser melting, and studied their magnetic and electrical properties upon introduction of compensating defects through irradiation with Ar ions
 Advisor *Prof. Oscar Dubon (oddubon@berkeley.edu)*
- 07/2008–08/2008 **Molecular Bioelectronics group**, *Forschungszentrum Jülich*, Jülich, Germany.
 Contributed to research into Graphene-Based biosensors
 Supervisor *Dr. Dirk Mayer (dirk.mayer@fz-juelich.de)*
- 07/2007–08/2007 **ATLAS MDT group**, *Max Planck Institut für Physik*, Munich, Germany.
 Contributed to R&D on the ATLAS upgrade for CERN's High Luminosity LHC project
 Supervisor *Dr. Oliver Kortner (kortner@mppmu.mpg.de)*

Research Projects

- 2020 **Biomimetic cell culture platform based on cellulose nanofibrils and integrated sensing capabilities.**
 KTH Life Science Technology Platform – Young Researcher Collaboration Grant
 Funding SEK 49,800 over four months (*co-applicant: Dr. Tobias Bensselfelt*)
- 2018–2020 **NeuroVU: Real-time Sensing in Microfluidic Models of the Neurovascular Unit.**
 European Commission Marie Skłodowska-Curie Actions – Individual Fellowships
 Funding score 97/100; €186,000 over two years under Grant #797777 (*Advisor: Prof. Anna Herland*)
- 2016/17 **Microsystems Integration Towards Point-of-Care Monitoring of Clozapine Treatment.**
 University of Maryland Graduate School – Ann G. Wylie Dissertation Fellowship
 Funding \$11,000 over six months (*Advisor: Prof. Reza Ghodssi*)
- 2014–2016 **Microsystem Development for Clozapine Monitoring in Schizophrenia.**
 National Institutes of Health
 Funding \$750,000 over two years under Grant R56MH105571
 Role Led & coordinated formulation of research strategy and grant writing; led research in the Ghodssi team (3-4 people); coordinated research between the microsystems, biochemistry, and clinical teams
 PIs *Profs. Deanna L. Kelly & Reza Ghodssi*
- 2009/10 **Gallium Manganese Phosphide synthesized by Ion Implantation and Pulsed-Laser Melting.**
 Austrian Marshall Plan Foundation – Research Scholarship
 Funding €5,000 over six months (*Advisors: Profs. Alberta Bonanni & Oscar Dubon*)

Manuscripts in Preparation (significant data collected and writing in progress)

- 2020 **T.E. Winkler**, I. Matthiesen, D. Voulgaris, P. Nikolakoulou, and A. Herland. Continuous monitoring reveals protective effects of N-acetylcysteine amide on an isogenic microphysiological model of the neurovascular unit.
- 2020 A. Herland and **T.E. Winkler**. Sorption of neuropsychopharmaca in microfluidic materials for in-vitro studies.

Journal Publications (asterisks* for equal contributions)

- 07/2020 F. Elhami Nik, I. Matthiesen, A. Herland, and **T.E. Winkler**. Low-cost PVD shadow masks with sub-millimeter resolution from laser-cut paper. *Micromachines* 11, 676.
- 03/2020 **T.E. Winkler**, M. Feil, E.F.G.J. Stronkman, I. Matthiesen, and A. Herland. Low-cost microphysiological systems: Feasibility study of a tape-based barrier-on-chip for small intestine modeling. *Lab on a Chip* 20, 1212. **Featured on Back Cover.**

- 03/2019 E. Zeglio, A.L. Rutz, **T.E. Winkler**, G.G. Malliaras, and A. Herland. Conjugated Polymers for Assessing and Controlling Biological Functions. *Advanced Materials* 31, 1806712.
- 03/2018 **T.E. Winkler**, F.O. Stevenson, E. Kim, M. Kang, G.F. Payne, D.L. Kelly, and R. Ghodssi. The Role of Microsystems Integration Towards Point-of-Care Clozapine Treatment Monitoring in Schizophrenia. *IEEE Sensors Letters* 2, 5500304. **Featured on Front Cover.**
- 01/2018 S. Chu, **T.E. Winkler**, A.D. Brown, J.N. Culver, and R. Ghodssi. Localized 3-D Functionalization of Bionanoreceptors on High-Density Micropillar Arrays via Electrowetting. *Langmuir* 34, 1725–1732.
- 08/2017 S. Subramanian, E.I. Tolstaya, **T.E. Winkler**, W.E. Bentley, and R. Ghodssi. An Integrated Microsystem for Real-Time Detection and Threshold-Activated Treatment of Bacterial Biofilms. *ACS Applied Materials and Interfaces* 9, 31362–31371.
- 08/2017 G.E. Banis, **T.E. Winkler**, P. Barton, S.E. Chocron, E. Kim, D.L. Kelly, G.F. Payne, H. Ben-Yoav, and R. Ghodssi. The Binding Effect of Proteins on Medications and Its Impact on Electrochemical Sensing: Antipsychotic Clozapine as a Case Study. *Pharmaceuticals* 10, 69.
- 05/2017 **T.E. Winkler**, S.L. Lederer, E. Kim, H. Ben-Yoav, D.L. Kelly, R. Ghodssi, and G.F. Payne. Molecular Processes in an Electrochemical Clozapine Sensor. *Biointerphases* 12, 02B401.
- 04/2017 **T.E. Winkler***, R. Dietrich*, E. Kim, H. Ben-Yoav, D.L. Kelly, G.F. Payne, and R. Ghodssi. The Interplay of Electrode- and Bio-materials in a Redox-cycling-based Clozapine Sensor. *Electrochemistry Communications* 79, 33–36.
- 04/2017 M. Kang, E. Kim, **T.E. Winkler**, G.E. Banis, Y. Liu, C. Kitchen, D.L. Kelly, G.F. Payne, and R. Ghodssi. Reliable Clinical Serum Analysis with Reusable Electrochemical Sensor: Toward Point-of-Care Measurement of the Antipsychotic Medication Clozapine. *Biosensors and Bioelectronics* 95, 55–59.
- 12/2016 E. Kim, **T.E. Winkler**, C. Kitchen, M. Kang, G.E. Banis, W.E. Bentley, D.L. Kelly, R. Ghodssi, and G.F. Payne. Redox Probing for Chemical Information of Oxidative Stress. *Analytical Chemistry* 89, 1583–1592.
- 09/2016 **T.E. Winkler**, H. Ben-Yoav, and R. Ghodssi. Hydrodynamic Focusing for Microfluidic Impedance Cytometry: A System Integration Study. *Microfluidics & Nanofluidics* 20, 134.
- 09/2016 E. Kim*, Y. Liu*, H. Ben-Yoav, **T.E. Winkler**, K. Yan, X. Shi, J. Shen, D.L. Kelly, R. Ghodssi, W.E. Bentley, and G.F. Payne. Fusing Sensor Paradigms to Acquire Chemical Information: An Integrative Role for Smart Biopolymeric Hydrogels. *Advanced Healthcare Materials* 5, 2595–2616.
- 07/2015 D.L. Kelly*, H. Ben-Yoav*, G.F. Payne, **T.E. Winkler**, S.E. Chocron, E. Kim, V. Stock, G. Vyas, R.C. Love, H.J. Wehring, K.M. Sullivan, S. Feldman, F. Liu, R.P. McMahon, R. Ghodssi. Blood Draw Barriers for Treatment with Clozapine and Development of Point-of-Care Monitoring Device. *Clinical Schizophrenia & Related Psychoses* 12, 23–30.
- 03/2015 S.E. Chocron, B.M. Weisberger, H. Ben-Yoav, **T.E. Winkler**, E. Kim, D.L. Kelly, G.F. Payne, and R. Ghodssi. Multidimensional Mapping Method using an Arrayed Sensing System for Cross-Reactivity Screening. *PLoS ONE* 10, e0116310.
- 02/2015 E. Kim*, S.E. Chocron*, H. Ben-Yoav, **T.E. Winkler**, Y. Liu, M. Glassman, C. Wolfram, D.L. Kelly, R. Ghodssi, and G.F. Payne. Programmable "Semismart" Sensor: Relevance to Monitoring Antipsychotics. *Advanced Functional Materials* 25, 2156–2165.
- 02/2015 H. Ben-Yoav, S.E. Chocron, **T.E. Winkler**, E. Kim, D.L. Kelly, G.F. Payne, and R. Ghodssi. An Electrochemical Micro-System for Clozapine Antipsychotic Treatment Monitoring. *Electrochimica Acta* 163, 260–270.
- 11/2014 **T.E. Winkler***, H. Ben-Yoav*, S.E. Chocron, E. Kim, D.L. Kelly, G.F. Payne, and R. Ghodssi. Electrochemical Study of the Catechol-Modified Chitosan System for Clozapine Treatment Monitoring. *Langmuir* 30, 14686–14693.

- 03/2014 H. Ben-Yoav*, T.E. Winkler*, S.E. Chocron, E. Kim, D.L. Kelly, G.F. Payne, and R. Ghodssi. Redox cycling-based amplifying electrochemical sensor for in situ clozapine antipsychotic treatment monitoring. *Electrochimica Acta* 130, 497–503.
- 07/2011 A. Bonanni, M. Sawicki, T. Devillers, W. Stefanowicz, B. Faina, Tian Li, T.E. Winkler, D. Sztenkiel, A. Navarro-Quezada, M. Rovezzi, R. Jakiela, A. Grois, M. Wegscheider, W. Jantsch, J. Suffczynski, F. D'Acapito, A. Meingast, G. Kothleitner, and T. Dietl. Experimental Probing of Exchange Interactions Between Localized Spins in the Dilute Magnetic Insulator (Ga,Mn)N. *Physical Review B* 84, 035206.
- 01/2011 T.E. Winkler, P.R. Stone, T. Li, K.M. Yu, A. Bonanni, and O.D. Dubon. Compensation-dependence of magnetic and electrical properties in Ga_{1-x}Mn_xP. *Applied Physics Letters* 98, 012103.

Patents & Applications

- 2019 E. Kim, G.F. Payne, M. Kang, R. Ghodssi, T.E. Winkler, G.E. Banis, C. Kitchen, D.L. Kelly, and W.E. Bentley. Redox Probing for Chemical Information. *U.S. Patent Application* 16/465,243.
- 2017 H. Ben-Yoav, R. Ghodssi, G.F. Payne, D.L. Kelly, E. Kim, S.E. Chocron, and T.E. Winkler. Analytical Micro-devices for Mental Health Treatment Monitoring. *United States Patent* 9,581,536.

Invited Talks

- 2020 MSCA Ambassador Lecture. *LIT Lecture @ Johannes Kepler Universität, Linz, Austria. Date pending due to COVID-19*
- 09/2020 Next-generation Microphysiological Systems to recapitulate Human Physiology in-vitro. *New Updates in Drug Formulation & Bioavailability*, Copenhagen, Denmark.
- 12/2019 Beyond PDMS: New Integration Strategies for Barrier-on-Chip Systems. *international MicroNanoConference (iMNC)*, Utrecht, The Netherlands.

Selected Conferences (out of 36 total; asterisks* if not presented by first author)

full list available at thomas.winkler.site/conferences

- 07/2020 T.E. Winkler, M. Feil, E.F.G.J. Stronkman, I. Matthiesen, and A. Herland. A tape-based microphysiological model of the small intestine. *European Organ-on-Chip Conference (EUROoC)*. Virtual conference due to COVID-19.
- 07/2020 E. Hedberg, T.E. Winkler*, I. Matthiesen, D. Voulgaris, P. Nikolakoulou, and A. Herland. Ultra-thin, ultra-porous membranes using femtosecond laser photoablation. *European Organ-on-Chip Conference (EUROoC)*. Virtual conference due to COVID-19.
- 07/2019 T.E. Winkler, I. Matthiesen, D. Voulgaris, L. Delsing, A. Lundin, P. Nikolakoulou, and A. Herland. *European Organ-on-Chip Conference (EUROoC)*, Graz, Austria. *Oral presentation. Best Paper/Presentation.*
- 10/2017 T.E. Winkler, E. Kim, M. Kang, G.F. Payne, D.L. Kelly, and R. Ghodssi. *International Conference on Miniaturized Systems for Chemistry and Life Sciences (μTAS)*, Savannah, Georgia. *Oral presentation.*
- 06/2017 A. Herland, T.E. Winkler*, D. Voulgaris, B.M. Maoz, K.K. Parker, and D.E. Ingber. *Joint EMBEC/NBC Conference on Biomedical Engineering and Medical Physics*, Tampere, Finland. *Oral presentation.*
- 11/2016 T.E. Winkler, S.L. Brady, E. Kim, H. Ben-Yoav, D.L. Kelly, G.F. Payne, and R. Ghodssi. *American Vacuum Society (AVS) International Symposium*, Nashville, Tennessee. *Oral Presentation.*
- 10/2016 T.E. Winkler, F. Zang, F.O. Stevenson, J.N. Culver, and R. Ghodssi. *International Conference on Miniaturized Systems for Chemistry and Life Sciences (μTAS)*, Dublin, Ireland. *Poster presentation.*

- 06/2015 **T.E. Winkler**, H. Ben-Yoav, D.L. Kelly, and R. Ghodssi. *International Conference on Solid-State Sensors, Actuators and Microsystems (Transducers)*, Anchorage, Alaska. *Proceedings published. Oral presentation.*
- 06/2014 **T.E. Winkler**, H. Ben-Yoav, D.L. Kelly, and R. Ghodssi. *Solid-State Sensors, Actuators and Microsystems Workshop*, Hilton Head, South Carolina. *Proceedings published. Poster presentation.*
- 10/2013 **T.E. Winkler**, H. Ben-Yoav, S.E. Chocron, E. Kim, D.L. Kelly, G.F. Payne, and R. Ghodssi. *Electrochemical Society (ECS) Meeting*, San Francisco, California. *Oral presentation.*
- 04/2013 H. Ben-Yoav, **T.E. Winkler***, E. Kim, D.L. Kelly, G.F. Payne, and R. Ghodssi. *Materials Research Society (MRS) Spring Meeting*, San Francisco, California. *Proceedings published. Oral presentation.*

Scholarships & Awards

- 2020 Travel Grant, *Karl Engvers Foundation*.
- 2019 **Best Paper/Presentation**, *European Organ-on-Chip Conference*.
Travel Stipend, *Nils and Hans Backmark Foundation*.
- 2017 Student/Young Researcher Grant, *Chemical and Biological Microsystems Society (CBMS)*.
- 2016 **Russell & Sigurd Varian Award ("Highest Student Honor")**, *American Vacuum Society*.
Dean's Doctoral Research Award ("Best Thesis"), *Clark School of Engineering @ UMD*.
Best Poster Runner-Up, *Mid-Atlantic Micro/Nano Alliance Spring 2016 Workshop*.
- 2015 **Future Faculty Fellowship**, *Clark School of Engineering @ UMD*.
3-Minute Thesis Competition Runner-Up, *University of Maryland*.
First Place for Research in Bioengineering, *Bioscience Day, University of Maryland*.
Best Poster Award, *Mid-Atlantic Micro/Nano Alliance Spring 2015 Workshop*.
- 2014 **Outstanding Graduate Assistant Award ("Top 2%")**, *University of Maryland*.
- 2011 **Fulbright Foreign Student Scholarship**, *Austrian American Educational Commission*.
Wilhelm Macke Mobility Scholarship, *Department of Physics @ JKU*.
Foreign Exchange Scholarship, *Julius Raab Foundation*.
- 2011 **Wilhelm Macke Thesis Recognition Prize ("Top Thesis")**, *Department of Physics @ JKU*.
- 2007–2011 Multiple State & University Merit Awards.

Teaching & Supervision Experience (asterisks* denote co-supervision)

- since **In-vitro Neural Systems lab**, *Kungliga Tekniska Högskolan*, Stockholm, Sweden.
- Spring 2018** (Co-)Supervisor of record to three internship students, four Master's students, and one Doctoral candidate
- Internships Eva Stronkman (Spring 2018), Simon Feillée (Summer 2018), Wei Ying Lieu (Fall 2019)
- Graduate Isabelle Matthiesen* (Ph.D. in Micro- and Nanosystems, KTH Stockholm, Class of 2017)
- Gabriele Bongiovanni* (M.Sc. in Micro & Nano Technologies, PoliTo / PhElMa / EPFL, 11/2018)
- Michael Feil (M.Sc. in Molecular Biotechnology, FH Campus Wien, 12/2019)
- Elin Hedberg (M.Sc. in Biomedical Engineering, Linköping University, 06/2020)
- Farzad Elhami Nik* (M.Sc. in Biomedical Engineering, Politecnico di Milano, 2020)
- Spring 2019** **Guest Lecturer**, *Kungliga Tekniska Högskolan*, Stockholm, Sweden, *Karolinska Institutet*, Solna, Sweden, and *Tel Aviv University*, Tel Aviv, Israel.
FJQ3110 – Microphysiological systems (26 students across three universities)
- Instructors *Prof. Anna Herland (aherland@kth.se)* & *Prof. Ben Maoz (bmaoz@tauex.tau.ac.il)*
- Spring 2013–** **MEMS Sensors and Actuators Laboratory**, *University of Maryland*, College Park, USA.
- Spring 2017** Mentored nine undergraduate research assistants and two junior graduate research assistants
- Undergraduate Gillian Costa* (Summer 2012), Robert Dietrich (Spring 2013–Spring 16), Sarah Brady (Summer 2013), Delaney Jordan (Spring 2015), Ashlyn Lee (Summer 2015), Sukriti Ghosh (Summer 2015), Stephen Semick (Summer 2015–Spring 2016), Florence Stevenson (Fall 2015–Spring 2016), Eugene Froimchuk (Spring 2016)

- Graduate Sheryl E. Chocron* (M.Sc. in Bioengineering, 01/2014),
George E. Banis* (Ph.D. in Bioengineering, Class of 2014)
- Fall 2014 & Fall 2016** **Project Facilitator & Guest Lecturer**, *University of Maryland*, College Park, USA.
EnEE 605 – Design and Fabrication of Micro-electromechanical Systems (10–15 graduate students)
Instructor *Prof. Reza Ghodssi (ghodssi@umd.edu)*
- Spring 2015–Spring 2016** **Future Faculty Fellow**, *University of Maryland*, College Park, USA.
Competitive three-semester program encompassing seminars focused on skills for effective teaching as well as for developing and funding a successful faculty research program.
- Spring 2016** **Co-Instructor**, *University of Maryland*, College Park, USA.
BioE 431/631 – Biosensor Techniques, Instrumentation, and Applications (22 graduate & 18 undergraduate)
Instructor *Prof. Ian White (ianwhite@umd.edu)*
- Spring 2013** **Teaching Assistant**, *University of Maryland*, College Park, USA.
BioE 232 – Thermodynamics for Bioengineers (64 undergraduate)
Instructor *Prof. Keith Herold (herold@umd.edu)*
- Fall 2012** **Teaching Assistant**, *University of Maryland*, College Park, USA.
BioE 120 – Biology for Engineers (66 undergraduate)
Instructor *Prof. Adam Hsieh (hsieh@umd.edu)*

Outreach, Service, & other Activities

- 07/2020** **European Organ-on-Chip Society Annual Meeting**, *online due to COVID-19*.
Member of "Best Presentation" jury.
- Spring 2020** **Sting Test Drive: Deeptech**, *Stockholm, Sweden*.
Selected as one of 15 teams for hands-on training program providing support to translate ideas into start-ups.
- 09/2019** **MSCA Falling Walls Lab**, *Brussels, Belgium*.
Selected as one of 30 finalists to pitch my research to a non-specialist audience in 150 seconds at the European Research & Innovation Days. Watch the video here: kth.box.com/v/MSCA-Falling-Walls-TEW
- 02/2019** **Nordic Organ on a Chip Symposium**, *Oslo, Norway*.
Organization Committee for the Student/Postdoc session with speed date networking.
- since 2018** **Annual MST Planning Conference**, *various locations, Sweden*.
Organized & moderated webinar with *Adv. Mater.* editor and Career Development Planning workshop.
- since 2018** **MST Poster Session**, *KTH Royal Institute of Technology*.
Started a new annual event for the Department consisting of Research Pitch Presentations and Posters (including Awards) to facilitate internal collaboration.
- 2012–2016** **Maryland Day**, *University of Maryland*.
Annual "Open University" event, with the MSAL lab participating by opening up to the public for the day. Assisted with organizing lab activities, and designed a new activity station around Jell-O microfluidics to explain microfabrication and laminar flow.
- 2012–2016** **Bioscience Day & Fischell Festival**, *University of Maryland*.
Annual events open to the public featuring research talks, poster sessions, and more, highlighting research within the broader Biosciences or within the Department of Bioengineering.
- 09/2015** **3-Minute Thesis Competition**, *University of Maryland*.
Produced a video summarizing my doctoral thesis research in 3 minutes to a non-academic audience. Awarded second place. Watch the video here: youtu.be/7guLm0pFG5k
- 2004–2014** **Alumni Academiae Aestatis**.
Alumni society of the Lower Austrian Summer Academies (over 240 members)
Member of Managing Board and Webmaster
- Reviewer** Biomedical Microdevices; Sensors; Journal of Microelectromechanical Systems; PLoS ONE; Small