

Curriculum vitae

Matthias Pilecky, MSc

Personal Data

Date of birth 18th of September, 1988 in Melk

Contact Danube-University Krems
Department for Biomedical Research
Center for Biomedical Technology
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School Education

1998 – 2006 Stiftsgymnasium Melk with linguistic focus
Term paper in biology in context of the school leaving exams

Studies

2007 – 2010 Bachelor studies „Molecular Biotechnology“
University for Applied Science (FH Campus Wien), Vienna Austria

2010 – 2013 Master studies „Biological Chemistry“ with focus on food chemistry
University of Vienna, Vienna, Austria

Since 2016 PhD studies „Regenerative medicine“
Danube-University Krems, Krems, Austria

Research Experience

since Jun. 2016 PhD Thesis

Danube-University Krems, Department of Biomedical Research
Influence of Antibiotic Pretreatment on Molecular Diagnostics for *Staphylococcus aureus* Blood Stream Infection Supervisor: Univ.-Prof. Dr. Viktoria Weber

Feb. 2016 – Jun. 2016 Drott Medizintechnik GmbH

Product Manager

- Coordinate a Team of 4 sales representatives
- Plan Marketing and Sales Strategies
- Provide scientific background and argumentation

Oct. 2014 – Feb. 2016 eBioscience - an Affymetrix company

Research & Development

- Development of ELISA
- Development of Bead-based Immunoassays

- Feasibility testing for new technologies Business Development
- Identification of new promising Biomarkers
- Literature research and writing of internal reviews
- Support of R&D by providing detailed information about analytes (structure, interactions, physiological concentrations,...)
- Develop strategies for marker-combination and marketing for diseases panels (e.g. cardiovascular diseases)
- Design and development of new technologies
- Support of legal department regarding possible patent conflicts

Feb. 2013 – Oct. 2014 Anagnostics Bioanalysis GmbH

Project Management

- Design and Development of new products for in-vitro diagnostic according to ISO13485: Inflammation/Emergency Panel– a multianalyte immunological assay designed to simultaneously detect various biomarkers for inflammation and organ status (brain, heart, liver, kidney) to quickly assess the clinical condition of a patient from a small blood sample
- Compilation of SOPs for assay production
- Definition of Criteria for Quality Assurance
- Customer training and technical support
- Training, support and lectures for sales department
- Talks and lectures for medical staff regarding the values of sepsis biomarkers
- Representation on congresses and exhibitions
- Support of clinical studies
- Scientific support for key management

Further temporarily assigned tasks

- Assist Production and Logistics
- Assist and accompany sales personal

Jan. 2012 – Jan. 2013 Masterthesis

Department for Medical Biochemistry, Max F. Perutz Laboratories, Austria
„Development of a modified rhinovirus by using recently discovered fluorescence labelling techniques for in vivo live imaging of viral replication“
 Supervisor: Univ-Prof. Dr. Karin Macfelda

Jan. 2010 – Jun. 2010 Bachelorthesis

Institute for Biomedical Research, Medical University Vienna, Austria
„Development of a tissue culture model for cardiac hypertrophy and testing of therapeutic micro current treatment“
 Supervisor: Univ-Prof. Dr. Dieter Blaas

Sep. 2006 Internship

Institute for Biophysics, JKU Linz, Austria
Structural research of S-layers by atomic force microscopy

Further Training

Since 2007 Voluntary work with the Austrian red cross

Paramedic and group leader; frequent training on the (emergency) medical field

2013 Medical device consultant**Language Abilities**

German Mother tongue

English Fluent in spoken and written

French Basic knowledge

Spanish Basic knowledge

Computer Literacy

Systems Apple, Linux, Microsoft

Software Microsoft office (Word, Excel,....)

SPSS and further statistic programs

Photoshop

Software of Laser Scanning Microscopes, Atomic Force Microscopes, HPLC, GC, CE and MS

Miscellaneous

Since 2007 Regular training for triathlon and marathon and also participation in competitions

1994 - 2004 Piano lessons and from then on playing in a jazz band and performing classical music in beneficial events

Social Skill Training within the framework of the bachelor studies; improving presentation, moderation techniques; practical trainings concerning personal and project management

I. Conference contributions

Schildberger A., Linsberger I., **Pilecky M.**, Ronacher B., Weber V. (2014) Quantification of Inflammatory Mediators using the Multiplex Hybcell Technology. Bionanomed Krems, Poster Presentation.

Pilecky M., Schildberger A., Ronacher B., Orth-Höller D., Weber V. (2017) The effect of antibiotic pretreatment on molecular diagnostics for pathogen detection. ÖGMBT Innsbruck 2017, Poster Presentation.

Pilecky M. (2018) Influence of Antibiotic Pretreatment on Molecular Diagnostics in a Staphylococcus aureus Blood Stream Infection Model. ÖGMBT Vienna 2018, Talk in Session "Next-generation pathogen & antibiotic resistance diagnostics".

II. Peer-Reviewed Publications

Pilecky M., Schildberger A, Orth-Höller D, Weber V (2018) Pathogen enrichment from whole blood for diagnostic and therapeutic applications: prospects and limitations. *Diagnostic Microbiology and Infectious Disease*. In press.