Curriculum vitae
Prof. Dr. Christopher Gerner
Current positions:
• Debuty head of the Department of Analytical Chemistry
• Deputy head of the Centre for Mass Spectrometry at the Faculty of Chemistry
• Deputy head of the Research Platform "Marine Rhythms of Life"
• Deputy head of the Karl Landsteiner Institute of Bioanalytical Oncology
Higher education:
2002 Venia docendi for Oncologic Biochemistry, University of Vienna
1998 PhD for Biochemistry at University of Vienna
1993 MSc for Chemistry at University of Vienna
Academic appointments and professional experience:
Since 2012 Full Professor for Separation Technologies and Bioanalysis at University of Vienna
2009 Visiting Scientist at the Diamantine Institute for Cancer, Immunology and Metabolic Medicine, University of Queensland, Australia
2003-2012 Group leader of the Clinical Proteomics Laboratories at the Medical University of Vienna
2002 Post-Doc in the group of Prof. Seamus Martin, Trinity College, Dublin, Ireland
2001 Visiting scientist in the group of Prof. Gerald Cohen, University of Leicester, GB.
1998-2001 Post-Doc in the group of Prof. Rolf Schulte-Hermann, Department of Toxicology, University of Vienna
1997 UN Officer (degree: Major) and Acting Chief Inspector for Chemical Team at UNSCOM, Baghdad, Iraq
1995-1998 Research Assistant at the Institute of Cancer Research, Vienna
Research activities
Bioanalysis largely based on various forms of chromatography hyphenated with mass spectrometry focussing on the development of novel methods for investigating patho-mechanisms and drug effects in humans. A combined analysis of proteins, lipids and metabolites is applied for providing new insights into processes such as inflammation, cancer and tissue regeneration. New methods are established supporting easy and reliable sampling of human individuals such as fingersweat analyses for individual profiling.
Key papers
1.Muqaku, B.; Eisinger, M.; Meier, S. M.; Tahir, A.; Pukrop, T.; Haferkamp, S.; Slany, A.; Reichle, A.; Gerner, C., Multi-omics Analysis of Serum Samples Demonstrates Reprogramming of Organ Functions Via Systemic Calcium Mobilization and Platelet Activation in Metastatic Melanoma. Mol Cell Proteomics 2017, 16, (1), 86-99.
2.Tahir, A.; Bileck, A.; Muqaku, B.; Niederstaetter, L.; Kreutz, D.; Mayer, R. L.; Wolrab, D.; Meier, S. M.; Slany, A.; Gerner, C., Combined Proteome and Eicosanoid Profiling Approach for Revealing Implications of Human Fibroblasts in Chronic Inflammation. Anal Chem 2017, 89, (3), 1945-1954.
3.Kreutz, D.; Bileck, A.; Plessl, K.; Wolrab, D.; Groessl, M.; Keppler, B. K.; Meier, S. M.; Gerner, C., Response Profiling Using Shotgun Proteomics Enables Global Metallodrug Mechanisms of Action To Be Established. Chemistry 2017, 23, (8), 1881-1890.