

# Ass.-Prof. Dr. Samuel Meier-Menches

## C U R R I C U L U M V I T A E

### Personal details

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researcher ID

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### Keywords

Bioanalytical techniques · Cancer · Chemical proteomics · Drug discovery · Drug effects · Mass spectrometry · Metals in Medicine · Metabolomics · Proteomics · Speciation analysis · Synthesis · Translational research

### Scientific positions

2021 Apr – present

**Tenure Track, Assistant Professor in Analytical Chemistry**

2020 Aug

***Venia docendi* in Analytical Chemistry**

2020 Mar – 2021 Mar

Senior Scientist at the University of Vienna with Prof. C. Gerner  
Analytical Chemistry, Translational Research

2013 – 2019

Post-doctoral research

2018 Dec – 2019 Nov

Medical University of Vienna with Prof. W. Berger

2017 Nov – 2018 Nov

University of Vienna with Prof. C. Gerner

2016 Oct – 2017 Sep

Cardiff University with Prof. A. Casini

2013 Oct – 2016 Jul

University of Vienna with Prof. C. Gerner

Analytical Chemistry, Bioinorganic Chemistry, Cancer Research

25<sup>th</sup> April 2013

**PhD degree in Chemistry from the University of Vienna with Prof. B. Keppler**

2011 Sept

Short scientific mission at the Ruhr University Bochum with Prof. N. Metzler-Nolte

2009 Oct – 2013 Apr

PhD studies at the University of Vienna with Prof. B. Keppler  
Bioinorganic and Analytical Chemistry

2009 Aug

Master's degree in Chemistry at the ETH Zurich

2008 Sep – 2009 Feb

Master's thesis at the University of Zurich with Prof. R. Alberto

2007 – 2009

Master's programme in chemistry at the ETH Zurich

2007 Aug

Bachelor's degree in Chemistry at the EPF Lausanne

2006 – 2007

SOCRATES student exchange at the University of Edinburgh

2004 – 2007

Undergraduate studies in Chemistry at the EPF Lausanne

2003 – 2004

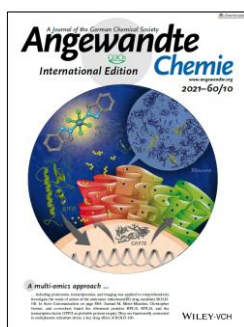
Internship at EMPA, St. Gallen, Switzerland

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## PUBLICATION LIST

### Selected publications

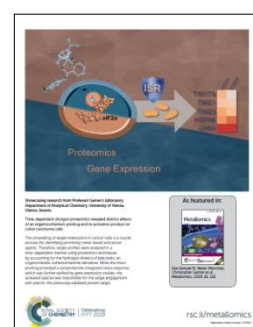
- [1] Benjamin Neuditschko, Anton A. Legin, Dina Baier, Arno Schintlmeister, Siegfried Reipert, Michael Wagner, Bernhard K. Keppler, Walter Berger, Samuel M. Meier-Menches\* and Christopher Gerner\*  
Interaction with ribosomal proteins accompanies ER stress-induction of the anticancer metallodrug BOLD-100/KP1339 [\\*corresponding authors](#)  
**Angewandte Chemie, International Edition**, 2021, 60, 5063–5068.
- [2] Samuel M. Meier,\* Dominique Kreutz, Lilli Winter, Matthias H.M. Klose, Klaudia Cseh, Tamara Weiss, Andrea Bileck, Beatrix Alte, Johanna C. Mader, Samir Jana, Annesha Chatterjee, Arindam Bhattacharyya, Michaela Hejl, Michael A. Jakupec, Petra Heffeter, Walter Berger, Christian G. Hartinger, Bernhard K. Keppler, Gerhard Wiche and Christopher Gerner\*  
An Organoruthenium Anticancer Agent Shows Unexpected Target Selectivity For Plectin  
**Angewandte Chemie, International Edition**, 2017, 56, 8267–8271. [\\*corresponding authors](#)
- [3] Samuel M. Meier-Menches,\* Benjamin Neuditschko, Katja Zappe, Martin Schaier, Marlene Gerner, Klaus Schmetterer, Giorgia del Favero, Riccardo Bonsignore, Margit Cichna-Markl, Gunda Koellensperger, Angela Casini,\* Christopher Gerner\*  
An organometallic gold(I) bis-N-heterocyclic carbene complex with multimodal activity in ovarian cancer cells [\\*corresponding authors](#)  
**Chemistry – A European Journal**, 2020, 26, 15528–15537.
- [4] Samuel M. Meier-Menches,\* Katja Zappe, Andrea Bileck, Dominique Kreutz, Ammar Tahir, Margit Cichna-Markl and Christopher Gerner\*  
Time-dependent shotgun proteomics revealed distinct effects of an organoruthenium prodrug and its activation product on colon carcinoma cells [\\*corresponding authors](#)  
**Metallomics**, 2019, 11, 118–127.
- [5] Christian Artner, Hannah U. Holtkamp, Christian G. Hartinger, Samuel M. Meier-Menches\* and Bernhard K. Keppler\*  
DNA or Protein? Capillary Zone Electrophoresis–Mass Spectrometry Rapidly Elucidates Metallodrug Binding Selectivity [\\*corresponding authors](#)  
**Chemical Communications**, 2017, 53, 8002–8005.



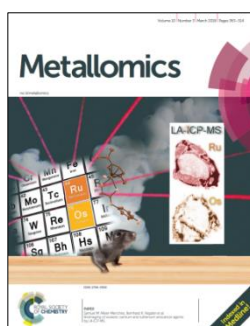
B. Neuditschko et al.  
**Angew. Chem. Int. Ed.**,  
2021



S.M. Meier-Menches et al.  
**Chem. Eur. J.**,  
2020



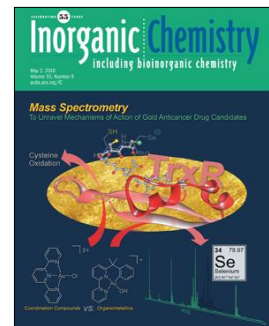
S.M. Meier-Menches et al.  
**Metallomics**,  
2019



M.H.M. Klose et al.  
**Metallomics**,  
2018



S.M. Meier et al.  
**Angew. Chem. Int. Ed.**,  
2017



S.M. Meier et al.  
**Inorganic Chemistry**,  
2016

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P U B L I C A T I O N L I S T

Research articles

[65]

- [1] Steven W. Magennis, Abraha Habtemariam, Olga Novakova, John B. Henry, Samuel Meier, Simon Parsons, Iain D. H. Oswald, Viktor Brabec and Peter J. Sadler  
Dual Triggering of DNA Binding and Fluorescence via Photoactivation of a Dinuclear Ruthenium(II) Arene Complex  
*Inorganic Chemistry*, 2007, 46, 5059–5068.
- [2] Muhammad Hanif, Helena Henke, Samuel M. Meier, Sanela Martić, Mahmoud Labib, Wolfgang Kandioller, Michael A. Jakupec, Vladimir B. Arion, Heinz-Bernhard Kraatz, Bernhard K. Keppler and Christian G. Hartinger  
Is the Reactivity of M(II)-Arene Complexes of 3-Hydroxy-2(1H)-pyridones to Biomolecules the Anticancer Activity Determining Parameter?  
*Inorganic Chemistry*, 2010, 49, 7953–7963.
- [3] Muhammad Hanif, Samuel M. Meier, Wolfgang Kandioller, Anna Bytzeck, Michaela Hejl, Christian G. Hartinger, Alexey A. Nazarov, Vladimir B. Arion, Michael A. Jakupec, Paul J. Dyson and Bernhard K. Keppler  
From Hydrolytically Labile to Hydrolytically Stable Ru(II)-Arene Anticancer Complexes with Carbohydrate-Derived co-Ligands  
*Journal of Inorganic Biochemistry*, 2011, 105, 224–231.
- [4] Samuel M. Meier, Muhammad Hanif, Wolfgang Kandioller, Bernhard K. Keppler and Christian G. Hartinger  
Biomolecule Binding vs. Anticancer Activity: Reactions of Ru(arene)[(thio)pyr-(id)one] Compounds with Amino Acids and Proteins  
*Journal of Inorganic Biochemistry*, 2012, 108, 91–95.
- [5] Samuel M. Meier, Yury O. Tsybin, Paul J. Dyson, Bernhard K. Keppler and Christian G. Hartinger  
Fragmentation Methods on the Balance: Unambiguous Top-Down Mass Spectrometric Characterization of Oxaliplatin-Ubiquitin Binding Sites  
*Analytical and Bioanalytical Chemistry*, 2012, 402, 2655–2662. 10<sup>th</sup> Anniversary Issue
- [6] Gerlinde Grabmann, Samuel M. Meier, Yulia Y. Scaffidi-Domianello, Markus Galanski, Bernhard K. Keppler and Christian G. Hartinger  
CZE and CZE-ESI-MS Studies on the Stability of Anticancer *cis*- and *trans*-[bis(2-propanone oxime)dihalidoplatinum(II)] Complexes in Aqueous Solutions  
*Journal of Chromatography A*, 2012, 1267, 156–161.
- [7] Maria V. Babak, Samuel M. Meier, Anton A. Legin, Mahsa S. Adib Razavi, Alexander Roller, Michael A. Jakupec, Bernhard K. Keppler and Christian G. Hartinger  
Am(m)ines make the Difference: Organometallic Ruthenium Am(m)ine Complexes and Their Chemistry in Anticancer Drug Development  
*Chemistry – A European Journal*, 2013, 19, 4308–4318.
- [8] Samuel M. Meier, Muhammad Hanif, Zenita Adhiresan, Verena Pichler, Maria Novak, Elisabeth Jirkovsky, Michael A. Jakupec, Vladimir B. Arion, Curt A. Davey, Bernhard K. Keppler and Christian G. Hartinger  
Novel Metal(II) Arene 2-Pyridinecarbothioamides: A Rationale to Orally Active Organometallic Anticancer Agents  
*Chemical Science*, 2013, 4, 1837–1846.

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## P U B L I C A T I O N L I S T

- [9] Wolfgang Kandioller, Evelyn Balsano, Samuel M. Meier, Ute Jungwirth, Simone Göschl, Alexander Roller, Michael A. Jakupec, Walter Berger, Bernhard K. Keppler and Christian G. Hartinger  
Organometallic Anticancer Complexes of Lapachol: Metal Centre-Dependent Formation of Reactive Oxygen Species and Correlation with Cytotoxicity  
**Chemical Communications**, 2013, 49, 3348–3350.
- [10] Anatolie Gavriluta, Maria Novak, Jean Bernard Tommasino, Samuel M. Meier, Michael A. Jakupec, Dominique Luneau and Vladimir B. Arion  
Osmium-Nitrosyl Complexes with Glycine, Picolinic Acid, L-Proline and D-Proline: Synthesis, Structures and Antiproliferative Activity  
**Zeitschrift für anorganische und allgemeine Chemie**, 2013, 639, 1590–1597.
- [11] Gabriel E. Büchel, Anatolie Gavriluta, Maria Novak, Samuel M. Meier, Michael A. Jakupec, Olesea Cuzan, Constantin Turta, Jean-Bernard Tommasino, Erwann Jeanneau, Ghenadie Novitchi, Dominique Luneau and Vladimir B. Arion  
Striking Difference in Antiproliferative Activity of Ruthenium- and Osmium- Nitrosyl Complexes with Azole Heterocycles  
**Inorganic Chemistry**, 2013, 52, 6273–6285.
- [12] Samuel M. Meier, Maria Novak, Wolfgang Kandioller, Michael A. Jakupec, Vladimir B. Arion, Nils Metzler-Nolte, Bernhard K. Keppler and Christian G. Hartinger  
Identification of the Structural Determinants for Anticancer Activity of a Ruthenium Arene Peptide Conjugate  
**Chemistry – A European Journal**, 2013, 19, 9297–9307.
- [13] Verena Pichler, Simone Goeschl, Samuel M. Meier, Alexander Roller, Michael A. Jakupec, Markus Galanski and Bernhard K. Keppler  
Bulky (N,N)-(Di)alkylethane-1,2-diamineplatinum(II) Compounds as Precursors for Generating Unsymmetrically Substituted Platinum(IV) Complexes  
**Inorganic Chemistry**, 2013, 52, 8151–8162.
- [14] Michael F. Primik, Simone Göschl, Samuel M. Meier, Nadine Eberherr, Michael A. Jakupec, Éva A. Enyedy, Ghenadie Novitchi and Vladimir B. Arion  
Dicopper(II) and Dizinc(II) Complexes with Nonsymmetric Dinucleating Ligands Based on Indolo-[3,2-c]quinolines: Synthesis, Structure, Cytotoxicity and Intracellular Distribution  
**Inorganic Chemistry**, 2013, 52, 10137–10146.
- [15] Muhammad Hanif, Samuel M. Meier, Alexey A. Nazarov, Julie Risse, Anton Legin, Angela Casini, Michael A. Jakupec, Paul J. Dyson, Bernhard K. Keppler and Christian G. Hartinger  
Influence of the  $\pi$ -Coordinated Arene on the Biological Function of Ruthenium(II) Carbohydrate Organometallic Complexes  
**Frontiers in Chemistry**, 2013, DOI: 10.3389/fchem.2013.00027.
- [16] Britta Fischer, Petra Heffeter, Kushtrim Kryeziu, Lars Gille, Samuel M. Meier, Walter Berger, Christian R. Kowol and Bernhard K. Keppler  
Poly(Lactic Acid) Nanoparticles of the Lead Anticancer Ruthenium Compound KP1019 and its Surfactant-Mediated Activation  
**Dalton Transactions**, 2014, 43, 1096–1104.
- [17] Anna Rathgeb, Andreas Boehm, Maria Novak, Anatolie Gavriluta, Orsolva Dömötör, Jean-Bernard Tommasino, Eva Enyedy, Sergui Shova, Samuel M. Meier, Michael A. Jakupec, Dominique Luneau and Vladimir Arion  
Ruthenium-Nitrosyl Complexes with Glycine, L-Alanine, L-Valine, L-Proline, D-Proline, L-Serine, L-Threonine and L-Tyrosine: Synthesis, X-ray Diffraction Structures, Spectroscopic and Electrochemical Properties and Antiproliferative Activity  
**Inorganic Chemistry**, 2014, 53, 2718–2729.

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## P U B L I C A T I O N L I S T

- [18] Samuel M. Meier, Maria Babak, Bernhard K. Keppler and Christian G. Hartinger  
Efficiently Detecting Metallodrug-Protein Adducts: Ion Trap vs. Time-of-Flight Mass Analyzer  
*ChemMedChem*, 2014, 9, 1351–1355.
- [19] Samuel M. Meier, Maria S. Novak, Wolfgang Kandoller, Michael A. Jakupec, Alexander Roller, Bernhard K. Keppler and Christian G. Hartinger  
Aqueous Chemistry and Antiproliferative Activity of a Pyrone-based Phosphoramidate Ru(Arene) Anticancer Agent  
*Dalton Transactions*, 2014, 43, 9851–9855.
- [20] Alexey A. Nazarov, Samuel M. Meier, Olivier Zava, Yulia N. Nosova, Elena R. Milaeva, Christian G. Hartinger and Paul J. Dyson  
Protein Ruthenation and DNA Alkylation: Chlorambucil-functionalized RAPTA Complexes and Their Anticancer Activity  
*Dalton Transactions*, 2015, 44, 3614–3623.
- [21] Maria V. Babak, Damian Plazuk, Samuel M. Meier, Homayon John Arabshahi, Johannes Reynisson, Blazej Rychlik, Andrzej Blauz, Katarzyna Szulc, Muhammad Hanif, Sebastian Strobl, Alexander Roller, Bernhard K. Keppler and Christian G. Hartinger  
Half-Sandwich Ruthenium(II) Biotin Conjugates as Biological Vectors to Cancer Cells  
*Chemistry – A European Journal*, 2015, 21, 5110–5117.
- [22] Maria V. Babak, Samuel M. Meier, Kilian Huber, Johannes Reynisson, Anton A. Legin, Michael A. Jakupec, Alexander Roller, Alexey Stukalov, Manuela Gridling, Keiryn L. Bennett, Jacques Colinge, Walter Berger, Paul J. Dyson, Giulio Superti-Furga, Bernhard K. Keppler and Christian G. Hartinger  
Target Profiling of an Antimetastatic RAPTA Agent by Chemical Proteomics: Relevance to the Mode of Action  
*Chemical Science*, 2015, 6, 2449–2456.
- [23] Paul-Steffen Kuhn, Laura Cremer, Anotolie Gavriluta, Katarina K. Jovanović, Lana Filipović, Alfred A. Hummer, Gabriel E. Büchel, Biljana P. Dojčinović, Samuel M. Meier, Annette Rempel, Siniša Radulović, Jean Bernard Tommasino, Dominique Luneau and Vladimir B. Arion  
Heteropentamuclear Oxalato-Bridged nd-4f (n = 4, 5) Metal Complexes with NO Ligand: Synthesis, Crystal structures, Aqueous Stability and Antiproliferative Activity  
*Chemistry – A European Journal*, 2015, 21, 13703–13713.
- [24] Samuel M. Meier, Besnik Muqaku, Ronald Ullmann, Andrea Bileck, Dominique Kreutz, Johanna C. Mader, Siegfried Knasmüller and Christopher Gerner  
Proteomic and Metabolomic Analyses Reveal Contrasting Anti-Inflammatory Effects of an Extract of *Mucor Racemosus* Secondary Metabolites Compared to Dexamethasone  
*PLoS ONE*, 2015, 10, e0140367. doi: 10.1371/journal.pone.0140367.
- [25] Luciano Oehninger, Sarah Spreckelmeyer, Pavlo Holenya, Samuel M. Meier, Suzan Can, Hamed Alborzina, Bernhard K. Keppler, Stefan Wolf and Ingo Ott  
Rhodium(I) NHC Bioorganometallics as Cytotoxic Agents with Distinct Effects on Cellular Signaling  
*Journal of Medicinal Chemistry*, 2015, 58, 9591–9600.
- [26] Paul-Steffen Kuhn, Samuel M. Meier, Katarina K. Jovanović, Isolde Sandler, Leon Freitag, Ghenadie Novitchi, Leticia González, Siniša Radulović and Vladimir B. Arion  
Ruthenium-Carbonyl Complexes with Azole Heterocycles: Synthesis, X-ray Diffraction Structures, DFT Calculations, Solution Behavior and Antiproliferative Activity  
*European Journal of Inorganic Chemistry*, 2016, 1566–1576.

# Ass.-Prof. Dr. Samuel Meier-Menches

## P U B L I C A T I O N L I S T

- [27] Katharina Auer, Anna Bachmayr-Heyda, Nyamdelger Sukhbaatar, Stefanie Aust, Klaus G. Schmetterer, [Samuel M. Meier](#), Christopher Gerner, Christoph Grimm, Reinhard Horvat and Dietmar Pils  
The Role of the Immune System in the Peritoneal Tumor Spread of High Grade Serous Ovarian Cancer  
**Oncotarget**, 2016, 7, 61336–61354.
- [28] [Samuel M. Meier](#),\* Christopher Gerner, Bernhard K. Keppler, Maria Agostina Cinellu and Angela Casini\*  
Mass Spectrometry Uncovers Molecular Reactivities of Coordination and Organo-metallic Gold(III) Drug Candidates in Competitive Experiments that Correlate to their Biological Effect  
**Inorganic Chemistry**, 2016, 55, 4248–4259. [\\*corresponding author](#)
- [29] Besnik Muqaku, Ammar, Tahir, Philip Klepeisz, Andrea Bileck, Rupert L. Mayer, [Samuel M. Meier](#), Marlene Gerner, Klaus Schmetterer and Christopher Gerner  
Coffee Consumption Modulates Inflammatory Processes in an Individual Fashion  
**Molecular Nutrition and Food Research**, 2016, 60, 2529–2541.
- [30] Anna Bachmayr-Heyda, Stefanie Aust, Katharina Auer, [Samuel M. Meier](#), Klaus Schmetterer, Sabine Dekan, Christopher Gerner and Dietmar Pils  
Integrative Systemic and Local Metabolomics with Impact on Survival in High Grade Serous Ovarian Cancer  
**Clinical Cancer Research**, 2016, 23, 2081–2092.
- [31] Dominique Kreutz, Andrea Bileck, Kerstin Plessl, Denise Wolrab, Bernhard K. Keppler, [Samuel M. Meier](#) and Christopher Gerner  
Response Profiling Using Shotgun Proteomics Enables Establishing Global Metallodrug Mechanisms of Action  
**Chemistry – A European Journal**, 2017, 23, 1881–1890.
- [32] Besnik Muqaku, Martin Eisinger, [Samuel M. Meier](#), Ammar Tahir, Astrid Slany, Tobias Pukrop, Sebastian Haferkamp, Albrecht Reichle and Christopher Gerner  
Multi-omics Analysis of Serum Samples Demonstrates Reprogramming of Organ Functions via Systemic Calcium Mobilization and Platelet Activation in Metastatic Melanoma  
**Molecular & Cellular Proteomics**, 2017, 16, 86–99.
- [33] Nadine S. Sommerfeld, Ekaterina Schreiber-Brynzak, Matthias H.M. Klose, Andrea Bileck, [Samuel M. Meier](#), Christopher Gerner, Michael A. Jakupec, Markus Galanski and Bernhard K. Keppler  
Low Generation PAMAM Dendrimers as Drug Carriers for Pt(IV) Complexes  
**European Journal of Inorganic Chemistry**, 2017, 1713–1720. [VIP article](#)
- [34] Ammar Tahir, Andrea Bileck, Besnik Muqaku, Laura Niederstätter, Dominique Kreutz, Rupert L. Mayer, Denise Wolrab, [Samuel M. Meier](#), Astrid Slany and Christopher Gerner  
Combined Proteome and Eicosanoid Profiling Reveals Novel Implications of Human Fibroblasts in Chronic Inflammation  
**Analytical Chemistry**, 2017, 89, 1945–1954.
- [35] Christina M. Hochkogler, Barbara Lieder, Petra Rust, David Berry, [Samuel M. Meier](#), Marc Pignitter, Alessandra Riva, Alina Leitinger, Anne Bruk, Simone Wagner, Christopher Gerner, Michael Wagner, Sabine Widder, Jakob P. Ley, Gerhard E. Krammer and Veronika Somoza  
Effects of a 12-Week Intervention with Nonivamide, a TRPV1 Agonist, on Peripheral Serotonin and Body Composition  
**Molecular Nutrition and Food Research**, 2017, DOI: 10.1002/mnfr.201600731.
- [36] Stefanie Aust, Sophie Felix, Katharina Auer, Anna Bachmayr-Heyda, Lukas Kenner, Sabine Dekan, [Samuel M. Meier](#), Christopher Gerner, Christoph Grimm and Dietmar Pils  
Absence of PD-L1 on Tumor Cells is Associated with Reduced MHC I Expression and PD-L1 Expression Increases in Recurrent Serous Ovarian Cancer  
**Scientific Reports**, 2017, 7, 42929.

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## P U B L I C A T I O N L I S T

- [37] Andrea Bileck, Rupert L. Mayer, Dominique Kreutz, Tamara Weiss, Sabine Taschner-Mandl, Samuel M. Meier, Astrid Slany and Christopher Gerner  
Evaluation of Inflammation-Related Signaling Events Covering Phosphorylation and Nuclear Translocation of Proteins Based on Mass Spectrometry Data  
*Journal of Proteomics*, 2017, 152, 161–171.
- [38] Muhammad Hanif, Samuel M. Meier, Zenita Adhireskan, Helena Henke, Sanela Martic, Sanam Movassaghi, Mahmoud Labib, Wolfgang Kandioller, Stephen M. F. Jamieson, Michaela Hejl, Michael A. Jakupec, Heinz-Bernhard Kraatz, Curt A. Davey, Bernhard K. Keppler and Christian G. Hartinger  
The Functionalization of Ru<sup>II</sup>(η<sup>6</sup>-p-cymene)(3-hydroxy-2-pyridone) Complexes with (Thio)Morpholine: Synthesis and Bioanalytical Studies  
*ChemPlusChem*, 2017, 82, 841–847.
- [39] Matthew P. Sullivan, Michael Groessl, Samuel M. Meier, Richard L. Kingston, David C. Goldstone and Christian G. Hartinger  
The Metalation of Hen Egg White Lysozyme Impacts Protein Stability as Shown by Ion Mobility Mass Spectrometry, Differential Scanning Calorimetry and X-Ray Crystallography  
*Chemical Communications*, 2017, 53, 4246–4249.
- [40] Samuel M. Meier,\* Dominique Kreutz, Lilli Winter, Matthias H.M. Klose, Klaudia Cseh, Tamara Weiss, Andrea Bileck, Beatrix Alte, Johanna C. Mader, Samir Jana, Annesha Chatterjee, Arindam Bhattacharyya, Michaela Hejl, Michael A. Jakupec, Petra Heffeter, Walter Berger, Christian G. Hartinger, Bernhard K. Keppler, Gerhard Wiche and Christopher Gerner\*  
An Organoruthenium Anticancer Agent Shows Unexpected Target Selectivity For Plectin  
*Angewandte Chemie, International Edition*, 2017, 56, 8267–8271. [\\*corresponding author](#)
- [41] Matthias H.M. Klose, Michaela Hejl, Petra Heffeter, Michael A. Jakupec, Samuel M. Meier-Menches,\* Walter Berger and Bernhard K. Keppler\*  
Post-Digestion Stabilization of Osmium Enables Quantitation by ICP-MS in Cell Culture and Tissue  
*Analyst*, 2017, 142, 2327–2332. [\\*corresponding author](#)
- [42] Christian Artner, Hannah U. Holtkamp, Christian G. Hartinger, Samuel M. Meier-Menches\* and Bernhard K. Keppler\*  
DNA or Protein? Capillary Zone Electrophoresis–Mass Spectrometry Rapidly Elucidates Metallo-drug Binding Selectivity  
*Chemical Communications*, 2017, 53, 8002–8005. [\\*corresponding author](#)
- [43] Christian Artner, Hannah U. Holtkamp, Christian G. Hartinger\* and Samuel M. Meier-Menches\*  
Characterizing Activation Mechanisms and Binding Preferences of Ruthenium Metallo-Prodrugs by a Competitive Binding Assay  
*Journal of Inorganic Biochemistry*, 2017, 177, 322–327. [\\*corresponding author](#)
- [44] Özden Karaca, Valeria Scalcon, Samuel M. Meier-Menches, Riccardo Bonsignore, Jurriaan M.J.L. Brouwer, Federica Tonolo, Alessandra Folda, Maria Pia Rigobello, Fritz E. Kühn and Angela Casini  
Characterization of Hydrophilic Gold(I) N-Heterocyclic Carbene (NHC) Complexes as Potent TrxR Inhibitors Using Biochemical and Mass Spectrometric Approaches  
*Inorganic Chemistry*, 2017, 56, 14237–14250.
- [45] Margot N. Wenzel, Samuel M. Meier-Menches, Thomas L. Williams, Eberard Rämisch, Giampaolo Barone and Angela Casini  
Selective Targeting of PARP-1 Zinc Finger Recognition Domains with Au(III) Organometallics  
*Chemical Communications*, 2018, 54, 611–614.

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## P U B L I C A T I O N L I S T

- [46] Matthias H. M. Klose, Sarah Theiner, Christoph Kornauth, Samuel M. Meier-Menches,\* Petra Heffeter, Walter Berger, Gunda Koellensperger and Bernhard K. Keppler\*  
Bioimaging of Isosteric Osmium and Ruthenium Anticancer Agents by LA-ICP-MS  
*Metallomics*, 2018, 10, 388–396. [\\*corresponding author](#)
- [47] Maria V. Babak, Martin Pfaffeneder-Kmen, Samuel M. Meier-Menches, Maria S. Novak, Sarah Theiner, Cynthia Licon, Christophe Orvain, Alexandre Griess, Michaela Hejl, Muhammad Hanif, Michael A. Jakupec, Bernhard K. Keppler, Christian Gaidon and Christian G. Hartinger  
Rollover Cyclometalated Bipyridine Platinum Complexes as Potent Anticancer Agents: Impact of the Ancillary Ligands on the Mode of Action  
*Inorganic Chemistry*, 2018, 57, 2851–2864.
- [48] Rupert L. Mayer, Astrid Slany, Marlene C. Gerner, Andrea Bileck, Samuel M. Meier-Menches, Samuel M. Gerner, Johanna C. Mader, Klaus G. Schmetterer, Tobias Pukrop, Albrecht Reichle, Josef D. Schwarzmeier and Christopher Gerner  
Aging-Related Proteome Alterations in B Cells May Predispose for Chronic Lymphocytic Leukemia  
*Molecular and Cellular Proteomics*, 2018, 17, 290–303.
- [49] Matthias H.M. Klose, Anna Schöberl, Petra Heffeter, Walter Berger, Christian G. Hartinger, Gunda Koellensperger, Samuel M. Meier-Menches\* and Bernhard K. Keppler\*  
Serum-Binding Properties of Isosteric Ruthenium and Osmium Anticancer Agents Elucidated by SEC-ICP-MS  
*Monatshefte für Chemie*, 2018, 149, 1719–1726. [\\*corresponding author](#)
- [50] Silvia Carboni, Antonio Zucca, Sergio Stoccoro, Laura Maiore, Massiliano Arca, Fabrizio Ortu, Christian Artner, Bernhard K. Keppler, Samuel M. Meier-Menches, Angela Casini and Maria Cinellu  
New Variations on the Theme of Gold(III) C<sup>N</sup>N Cyclometalated Complexes as Anticancer Agents: Synthesis and Biological Characterization  
*Inorganic Chemistry*, 2018, 57, 14852–14865.
- [51] Matthias H. M. Klose, Sarah Theiner, Hristo P. Varbanov, Doris Hofer, Verena Pichler, Markus Galanski, Samuel M. Meier-Menches,\* and Bernhard K. Keppler\*  
Development and Validation of Liquid Chromatography-Based Methods to Assess the Lipophilicity of Cytotoxic Platinum(IV) Complexes  
*Inorganics*, 2018, 6, 130. [\\*corresponding author](#)
- featured in a special Issue Reprint: [mdpi.com/books/pdfview/book/1637](https://mdpi.com/books/pdfview/book/1637).  
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