

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

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PERSONAL DETAILS

Date and Place of Birth	16 / 12 / 1976, Neuchâtel, Switzerland.
Nationality	Swiss.
Marital Status	Married.
Languages	French (mother tongue), English (fluent), German (fluent).

PROFESSIONAL POSITIONS

a) Faculty

- Since 2018** *Deputy Head of the Institute of Chemistry for Life and Health Science*, Chimie ParisTech, PSL University, CNRS (France).
- Since 2016** *Principal Investigator*, Chimie ParisTech, PSL University (France).
- 2016** *Offer for an Associate Professorship in Inorganic Chemistry*, University of Fribourg (Switzerland). *Declined*.
- 2015** *Offer for an Associate Professorship in Medicinal Chemistry*, University of Hamburg (Germany). *Declined*.
- 2011-2016** *Swiss National Science Foundation Assistant Professor*, Department of Chemistry, University of Zurich (Switzerland).
- 2010-2011** *Swiss National Science Foundation Ambizione Research Fellow*, Institute of Inorganic Chemistry, University of Zurich (Switzerland).

b) Post-doctorate

- 2007-2009** *Alexander von Humboldt Post-Doctoral Research Fellow* in the group of Prof. Nils Metzler-Nolte, Ruhr-University Bochum (Germany).
- 2006** *Exchange Post-doctoral Research Fellow* in the group of Dr Holger Stephan, Helmholtz Research Centre Dresden-Rossendorf (Germany).
- 2004-2007** *Swiss National Science Foundation Post-doctoral Research Fellow* in the group of Prof. Leone Spiccia, Monash University (Australia).

c) Industrial

- 2000-2001** *Research Chemist* at Lonza Ltd., Research and Development Division, Visp (Switzerland).

EDUCATION

- 2003 **ERASMUS exchange PhD Student** with Dr J.H.R. Tucker, University of Exeter (UK) (now at the University of Birmingham).
- 2001- 2004 **PhD Student** in the group of Prof. Helen Stoeckli-Evans, University of Neuchâtel (Switzerland).
- 1995- 2000 **Chemistry Student**, University of Neuchâtel (Switzerland).

AWARDS / FELLOWSHIPS

- 2018 **EuroBIC Medal Award** for work in Bioinorganic Chemistry.
- 2018 **Top 5% of the Reviewers for *Angew. Chem. Int. Ed.*** in 2017
- 2016 **Ernest Th. Jucker Prize** from the Ernest Th. Jucker Foundation for research against cancer.
- 2016 **PSL Chair of Excellence Program Grant.**
- 2016 **Top 10 Outstanding Reviewer for *Chem. Sci.*** in 2016 – see this [link](#).
- 2016 **2016 J. Med. Chem Award** for the highly cited Article of 2014.
- 2016 **Thieme Chemistry Journal Award.**
- 2015 **ERC Consolidator Grant** (2'000'000 €).
- 2015 **Werner Prize** from the Swiss Chemical Society for outstanding independent chemical research.
- 2015 Inclusion in the **ACS Select Virtual List** of one of the 20 **Emerging Investigators in Bioinorganic Chemistry.**
- 2014 Extension of a **Swiss National Science Foundation Professorship** (CHF 690'978.-).
- 2013 **2013 J. Med. Chem Award** for the highly cited Perspective of 2011.
- 2011 **Swiss National Science Foundation Professorship** (CHF 1'517'692.-).
- 2010 **Rubitec Award** for the best patent application at the Ruhr-University Bochum (Germany) in 2009.
- 2009 **Swiss National Science Foundation Ambizione Research Fellowship** (CHF 448'341.-).
- 2008 Extension of an **Alexander von Humboldt Research Fellowship.**
- 2007 **Alexander von Humboldt Research Fellowship.**
- 2004 **Swiss National Science Foundation Fellowship for Prospective Researchers.**
- 2004 **Syngenta Award** for the best PhD Thesis in Chemistry of the University of Neuchâtel in 2004 (Switzerland).
- 2000 **Jean Landry Award** of the University of Neuchâtel for Excellence in the MSc. Hons. in Chemistry (Switzerland).
- 2000 **Jürg Engi Award** of the University of Neuchâtel for the student with the best marks in organic chemistry (Switzerland).

RESEARCH GRANTS

- 2017-2021 **Swiss National Science Foundation Sinergia Research Grant** for the Project "Ruthenium Complexes for the Treatment of Protozoan Diseases of Medical and Veterinary Importance" (CHF 1'547'903.-) with Dr. Julien Furrer and Prof. Andrew Hemphil.

- 2017-2018** *France-Stanford Centre Collaborative Project* for the Project “Novel Theranostic Agents for Imaging in the near-Infrared-II Region and for Photodynamic Therapy” (€ 7'500.-).
- 2017-2018** *New York University-PSL International Collaborative Project* for the Project “Targeting and Inhibition of Deacetylases with Photosensitizer-Aptamer Conjugates” (€ 10'000.-) with Dr. Marcel Hollenstein.
- 2015-2016** Extension of the *UBS Promedica Stiftung Research Grant* for the Project “Metalloceanyl Antifungal Agents” (CHF 120'000.-).
- 2015-2018** *Swiss National Science Foundation Research Grant* for the Project “Novel Multidentate Bifunctional Chelating Agents for the Development of Zirconium-89 Based Molecular Imaging Probes” (CHF 350'000.-) with Prof. Thomas Mindt.
- 2014-2015** *UBS Promedica Stiftung Research Grant* for the Project “Metalloceanyl Antifungal Agents” (CHF 110'000.-).
- 2013** *Alfred Werner Research Equipment Grant* (CHF 32'400.-).
- 2013-2016** *Stiftung für wissenschaftliche Forschung Research Grant* for the Project “Towards the Development of Metal-Based Antiparasitic Drug Candidates for the Livestock Industry” (CHF 23'081.-).
- 2013-2014** *Swiss National Science Foundation Research Grant* for the Project “Photo-Induced Uncaging of Metal Complexes in Living Cells” (CHF 66'720.-).
- 2013-2014** *Novartis Jubilee Foundation Research Grant* for the project “Towards Metalloocene-Based Antifungal Agents” (CHF 50'000.-).
- 2012** *Alfred Werner Research Equipment Grant* (CHF 16'690.-).
- 2011** *Alfred Werner Research Equipment Grant* (CHF 14'464.-).
- 2010** *Alfred Werner Research Equipment Grant* (CHF 24'638.-).
- 2010-2013** *Swiss National Science Foundation Research Grant* for the Project “Photo-Induced Uncaging of Metal Complexes in Living Cells” (CHF 197'244.-).

TEACHING AND STUDENT EVALUATION

- Since 2018** Lecturing at the Master of Chemistry of Paris-Centre.
Duties: preparing, lecturing (part of) and coordinating of the subject “*Biologie Chimique: Chimie des Processus Biologiques*” (UE 5C407) to MSc students.
- Since 2018** Lecturing at the Master of Chemistry of Chimie ParisTech.
Duties: Preparing, lecturing (part of) and coordinating the subject “*Analytical and Biological Chemistry*” to MSc students.
- Since 2017** Lecturing at the Master of Chemistry of Ecole Polytechnique.
Duties: Preparing and lecturing (part of) the subject “*Chemistry and Biology*” to MSc students.
- 2016-2017** Lecturing at the Master of Chemistry of Paris-Centre.
Duties: Preparing and lecturing (part of) the subject “*Biologie Chimique: Chimie des Processus Biologiques*” (UE 5C407) to MSc students.
- 2015** Invited Lecturer at Sun Yat-Sen University (Guangzhou, China).
Duties: Preparing and lecturing the subject “*Medicinal Inorganic Chemistry*” to BSc students.
- Since 2014** Lecturing at the Swiss Federal Institute of Technology Zurich (Switzerland).
Duties: Preparing and lecturing part of the subject “*Vertiefte Grundlagen der Chemie A*” to chemistry teachers.

- Since 2012** Lecturing at the University of Zurich (Switzerland)
Duties: Preparing, lecturing (part of) and coordinating the subject “*Inorganic Chemistry V – Bioinorganic Chemistry*” to BSc students.
- Since 2010** Lecturing at the University of Zurich (Switzerland).
Duties: Preparing and lecturing the subject “*Medicinal Inorganic Chemistry*” to MSc students.
- 2006** Lecturing at the Victorian College of Pharmacy, Monash University (Australia)
Duties: Preparing and lecturing the subject “*Coordination Chemistry and Inorganic Medicinal Chemistry*” to 2nd year Undergraduate students.
Student Evaluation: 4.7 / 5.0.
- 1995-2004** Science and sports teacher in a secondary school, Peseux (Switzerland).
Duties: Teaching chemistry, mathematics, informatics, biology and unihockey.

SCIENTIFIC SERVICES AND ORGANISATION

- 2019** Organiser of the Metals in Medicine Workshop, Paris, November 2019.
- Since 2018** *Co-Funder and Co-organiser of the PSL Bioinorganic Chemistry Seminars.*
- Since 2017** President of the European Platform for Photomedicine (EPPM).
- 2016** International Advisory Board Member of the International Symposium on Bioorganometallic Chemistry (ISBOMC).
- 2016** Editorial board member of *Inorganics*.
- 2016** Scientific Committee Organiser of the International Symposium on Bioorganometallic Chemistry (ISBOMC) held in Moscow (Russia).
- Since 2015** Editorial Advisory Board Member of *ChemBioChem*.
- Since 2015** Vice-President of the European Platform for Photomedicine (EPPM).
- Since 2014** Editorial board member of *Photodiagnosis and Photodynamic Therapy*.
- 2014** Co-organiser of the *Young Faculty Meeting* held in Berne in 2014.
- 2014** Local organiser of the *European Conference on Bioinorganic Chemistry* held in Zurich in 2014.
- Since 2013** Review editor for *Frontiers in Inorganic Chemistry* (Nature publisher).
- Since 2010** Active reviewer for numerous peer-reviewed journals such as *Nature Chem.*, *Nature Commun.*, *Nature Protocols*, *J. Am. Chem. Soc.*, *Angew. Chem. Int. Ed.*, *ACS Nano*, *Chem. Sci.*, etc.
- Since 2010** External expert for numerous funding agencies such as the *Swiss National Science Foundation (SNSF)*, the *Swiss Academy of Engineering Sciences*, the *German Research Foundation (DFG)*, the *UK Medical Research Council*, the *French National Research Agency (ANR)*, the *Netherlands Organisation for Scientific Research (NWO)*, the *Natural Sciences and Engineering Research Council of Canada (NSERC)*, the *Genesis Oncology Trust New Zealand*, the *Innovation and Technology Commission (ITC) of Hong Kong*, the *South African National Research Funding Agency*, the *National Science Centre Poland*, the *Fundação para a Ciência e a Tecnologia Portugal (FCT)*, etc.
- Since 2010** External PhD thesis examiner at the *University of Basel* (Switzerland), the *University of Fribourg* (Switzerland), the *University of Neuchâtel* (Switzerland), the *Ecole Nationale Supérieure de Chimie de Paris* (France), the *University of Lille 2* (France), the *University of Strasbourg* (France), the *University of Burgundy* (France), *Monash University* (Australia), the *Ruhr-University Bochum* (Germany), *Trieste University* (Italy), *Royal College of Surgeons in Dublin* (Ireland), and the *University of Cape Town* (South Africa).

RESEARCH INTERESTS

Medicinal Organometallic Chemistry, Anticancer and Antiparasitical Drug Development, Inorganic Chemical Biology, Phototherapy, Bioorganometallic Chemistry.

RESEARCH GROUP (CURRENT MEMBERS)

- Post-docs:** Dr. Yih Ching Ong (10/2017-current), Dr. Joseph Cowell (05/2018-current), Dr. Luke McKenzie (05/2018-current), Dr. Sarah Keller (11/2018-current)
- PhD Students:** Johannes Karges (11/2017-current), Franz Heinemann (11/2017-current), Anna Notaro (01/2017-current), Patrick Felder (02/2017-current), Marta Jakubaszek (04/2017-current), Marie Flamme (10/2017-current), Nancy Soliman (10/2017-current), Lin Yan (10/2018-current), Lauren Fernandez Vega (01/2019-current, exchanged PhD student).
- Bsc/Msc Student:** Maximilian Fellert (10/2018-current), Mazzarine Dotou (01/2019-current), Nicolas Berenguer (02/2019-current), Karen Junghans (02/2019-current)

RESEARCH GROUP (FORMER MEMBERS)

- Post-docs:** Dr. Tanmaya Joshi (08/2012-10/2013), Dr. Malay Patra (08/2011-09/2013), Dr. Giuseppe Martano (04/2014-10/2014), Dr. Rangasamy Loganathan (09/2014-09/2015), Dr. Konstantis Konidaris (09/2014-09/2015), Dr. Vanessa Pierroz (05/2015-12/2015), Dr. Riccardo Rubbiani (04/2013-11/2015), Dr. Saonli Roy (06/2016-02/2017), Dr. Phuc Ung (04/2015-06/2017), Dr. Malay Patra (12/2015-08.2017), Dr. Maggie Aulsebrook (07/2017-05/2018), Dr. Uttara Basu (09/2017-09/2018), Dr. Elise Villemin (09/2017-09/2018).
- PhD Students:** Dr. Anna Leonidova (08/2010- 08/2014), Dr. Philipp Anstätt (04/2011-09/2014), Dr. Vanessa Pierroz (04/2011-04/2015), Dr. Cristina Mari (06/2011-06/2015), Dr. Huaiyi Huang (08/2015-05/2016), Dr. Jeannine Hess (01/2012-06/2016).
- BSc/Msc Students:** Jeannine Hess (02/2011-12/2011), Sandro Konatschnig (02/2012-04/2013), Angelo Frei (02/2013-12/2013), Assia Nouar (04/2014-09/2014), Lea Gemperle (02/2014-12/2014), Sandra Morard (02/2014-12/2014), Seraina Hügli (05/2014-09/2015), Elisa Fusini (02/2015-12/2015), Luciano Mastrobuoni (02/2015-12/2015), Faustine d'Orchymont (01/2016-07/2016), Franz Heinemann (01/2016-08/2016), Severin Jeger (02/2016-12/2016), Severin Koch (02/2016-12/2016), Ryad Karda (01/2017-07/2017), Scandeur Dakhlaoui (02/2017-07/2017), Michèle Clerc (02/2017-01/2018), Emma Clarke (09/2017-05/2018), Germain Martinez (01/2018-05/2018), Clara Berg (02/2018-05/2018), Chloé Subecz (01/2018-current).

MAIN COLLABORATIONS (IN ALPHABETICAL ORDER)

- Prof. Carlo Adamo, Chimie ParisTech, France. *DFT Calculations*.
- Dr. Olivier Blacque, University of Zurich, Switzerland. *X-ray Crystallography*.
- Prof. Hui Chao, Sun Yat-Sen University, China. *2P-PDT*.
- Dr. Ilaria Ciofini, Chimie ParisTech, France. *DFT Calculations*.
- PD Stefano Ferrari, University of Zurich, Switzerland. *Biological Evaluation of Metal Complexes on Cancer Cells*.
- Prof. Robin Gasser, University of Melbourne, Australia. *Biological Evaluation of Metal Complexes on Parasites*.

- Dr. Bim Graham, Monash University, Australia. *Synthesis of Upconverting Nanoparticles*.
- Dr. Marcel Hollenstein, Pasteur Institute (Paris), France. *Preparation of novel Ru-containing aptamers*.
- Prof. Jennifer Keiser, Swiss Tropical Institute, Basel, Switzerland. *Biological Evaluation of Metal Complexes on Parasites*.
- Prof. Caroline Maake, University of Zurich, Switzerland. *Biological Evaluation of Metal Complexes on Tumor Models*.
- Prof. Thomas Mindt, ETH Zurich, Switzerland. *Synthesis of new chelators for ⁸⁹Zr labelling*.
- Prof. Clotilde Policar, PSL – Ecole Normale Supérieure, Paris, *Bioimaging*.
- Prof. Bernhard Spingler, University of Zurich, Switzerland, *Biological Evaluation of novel PDT Photosensitizers*.
- Dr. Holger Stephan, Helmholtz Research Centre Dresden-Rossendorf, Germany. *Radiolabelling and Biological Evaluation of Metal-Bioconjugates*.
- Prof. Christophe Thomas, Chimie ParisTech, France, *Delivery of PDT Photosensitizers*.
- Dr. Kristof Zarschler, Helmholtz Research Centre Dresden-Rossendorf, Germany. *Radiolabelling and Biological Evaluation of Metal-Bioconjugates*.

INVITED TALKS

17 keynote speaker invitations, 46 invited talks at universities/Companies and 27 offered talks at conferences.

a) Keynote Speaker Invitations at Conferences/Summer Schools

- 1) *“Targeted Photodynamic Therapy with Metal-based Photosensitizers”*, PDT and PD Update Conference, Kochel am See (Germany), September 2018.
- 2) *“Organometallic Compounds as Antiparasitical and Antifungal Drug Candidates”*, XXXV GEQO Congress Organometallic Chemistry Group Conference, Zaragoza (Spain), August 2018.
- 3) *“Metal Complexes and Medicinal Chemistry: what a Combination!”*, EuroBIC Conference, Birmingham (UK), August 2018.
- 4) *“Organometallic Compounds against Human and Livestock Animal Parasitic Diseases”*, COST Meeting Chemotherapy Towards Diseases Caused by Endoparasites, Lausanne (Switzerland), October 2017.
- 5) *“Metal Complexes as Photosensitizers in Photodynamic Therapy”*, SolChem Conference 2017, Ulm (Germany), October 2017.
- 6) *“Towards the Use of Ru(II) Polypyridyl Complexes as Photosensitizers in One-Photon and Two-Photon Photodynamic Therapy”*, Gordon Conference on Photochemistry, Maine (US), July 2017.
- 7) *“Organometallic Compounds against Human and Livestock Animal Parasitic Diseases”*, International Symposium on Bioorganometallic Chemistry (ISBOMC 2016), Moscow (Russia), September 2016.
- 8) *“Bioorganometallic Chemistry to fight Schistosomiasis”*, 27th International Conference on Organometallic Chemistry (ICOMC 2016), Melbourne (Australia), July 2016.
- 9) *“Metal Complexes as Phototoxic Anticancer Agents”*, Gordon Conference on Metals in Medicine, New Hampshire (US), June 2016.
- 10) *“Metal Complexes in Medicinal Chemistry”*, Summer School in Supramolecular Chemistry, Borovets (Bulgaria), June 2016.
- 11) *“Towards the Selective Photo-Release of Organometallic-based Enzyme Inhibitors in Living Cells”*, BioChem Forum, Strasbourg (France), June 2016.

- 12) *"Towards Organometallic Antischistosomal Candidates"*, 21th European Association for Chemical and Molecular Sciences Conference on Organometallic Chemistry (EuCOMC XXI), Bratislava (Slovakia), July 2015.
- 13) *"New Perspectives in the use of Metal Complexes in Medicinal Chemistry"*, Swiss Chemical Society Meeting, Basel (Switzerland), April 2015.
- 14) *"Novel Opportunities in PDT using Metal Complexes"*, The International Congress on Photodynamic Applications, Dundee (Scotland), May 2014.
- 15) *"Metal Complexes in Photodynamic Therapy"*, 5th International Meeting of the European Platform for Photodynamic Medicine, Ustron (Poland), November 2013.
- 16) *"Novel Concepts in Medicinal Inorganic Chemistry"*, Young Faculty Meeting, Bern (Switzerland), June 2012.
- 17) *"A Journey through the Preparation and Biological Applications of Metal-Containing Peptide Nucleic Acids"*, XXVI edition of the symposium "New Trends in Organic Synthesis", University of Milan (Italy), November 2011.

b) Invited Talks at Universities/Companies

- 1) *"Metal Complexes in Medicinal Chemistry"*, King's College (UK), November 2018.
- 2) *"Metal Complexes in Medicinal Chemistry"*, University of Tübingen (Germany), October 2018.
- 3) *"Metal Complexes in Medicinal Chemistry"*, University of Bretagne Occidentale (France), October 2018.
- 4) *"Metal Complexes in Medicine"*, ICSN, University Paris-Saclay (France), June 2018.
- 5) *"Metal Complexes in Medicine"*, New York University (USA), May 2018.
- 6) *"Metal Complexes in Medicine"*, University of Burgos (Spain), April 2018.
- 7) *"Metal Complexes in Medicine"*, CEA, University Paris-Saclay (France), April 2018.
- 8) *"Metal Complexes in Medicinal Chemistry"*, Institut Pasteur (France), April 2018.
- 9) *"Metal Complexes in Medicinal Chemistry"*, Laboratoire de Chimie de Coordination de Toulouse (France), February 2018.
- 10) *"Metal Complexes in Medicinal Chemistry"*, Ecole Normale Supérieure de Lyon (France), February 2018.
- 11) *"Metal Complexes as Photosensitizers in Photodynamic Therapy"*, University of Reading (UK), July 2017.
- 12) *"Metal Compounds in Medicinal Chemistry"*, University of Sussex (UK), April 2017.
- 13) *"Metal Complexes in Medicinal Chemistry"*, University of Zurich (Switzerland), *Ernest Th. Jucker Prize Ceremony*, April 2017.
- 14) *"Metal Complexes in Medicinal Chemistry"*, Paris Descartes University (France), February 2017.
- 15) *"Metal Complexes in Medicinal Chemistry"*, Chimie ParisTech (France), December 2016.
- 16) *"Combination of Light and Metal Complexes to kill Cancer Cells and Bacteria"*, University of Sydney (Australia), July 2016.
- 17) *"Lightening up Metal Complexes to kill Cancer Cells and Bacteria!"*, Monash Institute of Pharmaceutical Sciences (Australia), July 2016.
- 18) *"Metal Complexes, Light, Anticancer Action!"*, National University of Singapore (Singapore), July 2016.
- 19) *"Combination of Light and Metal Complexes to fight Cancer!"*, Nanyang Technological University (Singapore), July 2016.

- 20) *"Lightening up Metal Complexes to kill Cancer Cells and Bacteria!"*, University of Galway (Ireland), April 2016.
- 21) *"New Insights in the Use of Metal Complexes in Medicinal Chemistry"*, University Pierre et Marie Curie, (France), April 2016.
- 22) *"Lightening up Metal Complexes to kill Cancer Cells and Bacteria!"*, BASF, Basel (Switzerland), January 2016.
- 23) *"Metal Complexes, Light, Anticancer Action!"*, University of Fribourg, (Switzerland), October 2015.
- 24) *"Metal Complexes, Light, Anticancer Action!"*, Swiss Federal Institute of Technology Zurich, (Switzerland), September 2015.
- 25) *"Metals and Medicine: a Successful Combination"*, University of Basel, (Switzerland), August 2015.
- 26) *"New Perspectives in the Use of Metal Complexes in Medicinal Chemistry"*, Helmholtz-Zentrum Dresden-Rossendorf (Germany), July 2015.
- 27) *"Towards the Use of Ru(II) and Re(I) Complexes as Anticancer Agents"*, Sun Yat-Sen University (China), January 2015.
- 28) *"Metal Complexes, Light, Anticancer Action!"*, University of Hamburg (Germany), December 2015.
- 29) *"Towards the Use of Ru(II) and Re(I) Complexes as Anticancer Agents"*, University of Belgrade (Serbia), September 2014.
- 30) *"Novel Strategies in Photodynamic Therapy using Metal Complexes"*, University of Macau (Macau), May 2014.
- 31) *"Phototherapy with Metal Complexes"*, University of Leiden (the Netherlands), March 2014
- 32) *"Metal Complexes in Medicinal Chemistry"*, Institute of Anatomy, University of Zurich (Switzerland), December 2013.
- 33) *"New Progresses in the Development of Antiparasitic Drug Candidates"*, Ecole Nationale Supérieure de Chimie (France), September 2013.
- 34) *"Novel Opportunities in Chemical Biology and Nanoscience with Metal-Containing Peptide Nucleic Acids"*, University of Wollongong (Australia), January 2013.
- 35) *"In vitro and in vivo Investigations of novel Metal-Based Antiparasitic and Anticancer Drug Candidates"*, Monash University (Australia), February 2013.
- 36) *"Towards Novel Metal-Based Antiparasitic and Anticancer Drug Candidates"*, University of Sydney (Australia), January 2013.
- 37) *"In Vitro and in Vivo Evaluation of Metal-Based Anthelmintic and Anticancer Drug Candidates"*, University of Melbourne (Australia), January 2013.
- 38) *"Preparation and Biological Evaluation of Novel Anthelmintic and Anticancer Metal-Based Candidates"*, Ruhr-University Bochum (Germany), November 2012.
- 39) *"Mitochondria-mediated Apoptosis as Mode of Action for a Novel Ru(II) Complex"*, University of Lille 1 (France), September 2012.
- 40) *"Metal Complexes for Medicinal Applications"*, Helmholtz-Zentrum Dresden-Rossendorf (Germany), August 2012.
- 41) *"Novel Anticancer Ru(II) and Re(I) Agents: Towards the Elucidation of their Mechanism of Action"*, University of Auckland (New Zealand), January 2012.
- 42) *"A Journey through the Preparation and Biological Applications of Metal-Containing Peptide Nucleic Acids"*, University of Birmingham (England), June 2011.
- 43) *"A Journey through the Preparation and Biological Applications of Metal-Containing Peptide Nucleic Acids"*, Technical University Braunschweig (Germany), December 2010.
- 44) *"Biological Applications of Metal-Containing Peptide Nucleic Acids"*, Helmholtz-Zentrum Dresden-Rossendorf (Germany), October 2009.

- 45) *"Metal Complexes containing Peptide Nucleic Acids for Medicinal and Biosensing Applications"*, University of Neuchâtel (Switzerland), October 2008.
- 46) *"Metal Complexes containing Peptide Nucleic Acids for Medicinal and Biosensing Applications"*, University of Zurich (Switzerland), October 2008.
- 47) *"Modified Peptide Nucleic Acids for Medicinal Applications"*, Helmholtz-Zentrum Dresden-Rossendorf (Germany), November 2007.
- 48) *"Use of Ferrocenyl Complexes and Peptide Nucleic Acids for Different Biological Applications"*, Helmholtz-Zentrum Dresden-Rossendorf (Germany), October 2006.
- 49) *"Signalling and Controlling Guest Complexation using New Ligand Derivatives of Ferrocene as Redox-active Supramolecular Receptors"*, Monash University (Australia), October 2004.

c) Offered Talks at International Conferences

- 1) *"Metallocene-containing Complexes as Antiparasitic and Antifungal Drug Candidates"*, 9th Asian Biological Inorganic Chemistry (AsBIC) Conference, Singapore (Singapore), December 2018.
- 2) *"Organometallic Compounds as Antiparasitical and Antifungal Drug Candidates"*, 8^{ème} Journée du Consortium anti-Parasitaire et anti-Fongique (CaPF), Lyon (France), March 2018.
- 3) *"Metal Complexes as Photosensitizers in Photodynamic Therapy"*, 22nd International Symposium on Photochemistry and Photophysics of Coordination Compounds, Oxford (UK), July 2017.
- 4) *"Metal Complexes as Photosensitizers in Photodynamic Therapy"*, 14th International Symposium on Applied Bioinorganic Chemistry, Toulouse (France), June 2017.
- 5) *"Organometallic Compounds against Human and Livestock Animal Parasitic Diseases"*, FrenchBIC, Toulouse (France), June 2017.
- 6) *"Ru(II) Polypyridyl Complexes in (2-Photon Excitation) Photodynamic Therapy"*, Excited States in Complex Systems, Paris (France), November 2016.
- 7) *"Ru(II) Polypyridyl Complexes as Photosensitizers in (Two-Photon Excitation) Photodynamic Therapy"*, Photodynamic Therapy & Photodiagnosis (PDT PDD) Symposium, Nancy (France), October 2016.
- 8) *"Selective Photo-release of Organometallic-containing Enzyme Inhibitors"*, 4th Whole Action Meeting of the COST Action CM1105, Palma de Mallorca (Spain), April 2016.
- 9) *"Towards the Use of Ru(II) Polypyridyl Complexes as Photosensitizers in Photodynamic Therapy"*, 1st International Symposium on Clinical and Experimental Metallodrugs in Medicine: Cancer Chemotherapy (CEMM), Honolulu (USA), December 2015.
- 10) *"Evaluation of novel Ru(II) Polypyridyl Complexes as Photosensitizers in Photodynamic Therapy"*, COST Meeting, Belgrade (Serbia), September 2015.
- 11) *"Ru(II) Polypyridyl Complexes as potent Photosensitizers in Photodynamic Therapy"*, ACS Conference – Fall Meeting, Boston (USA), September 2015.
- 12) *"Ru(II) Complexes as potent Photosensitizers in Photodynamic Therapy"*, International Photodynamic Association Conference, Rio de Janeiro (Brazil), May 2015.
- 13) *"Phototoxic Metal Bioconjugates with a Dual Mode of Action"*, COST Meeting, Zurich (Switzerland), August 2014.
- 14) *"Organometallic Compounds to fight Schistosomiasis"*, International Symposium on Bioorganometallic Chemistry, Vienna (Austria), July 2014.
- 15) *"Towards Novel the Use of Re(I) and Ru(II) in Photodynamic Therapy"*, The International Congress on Photodynamic Applications, Dundee (Scotland), May 2014.

- 16) *"Photodelivery of Cytotoxic Metal Complexes in Living Cells"*, COST Meeting, Madrid (Spain), April 2014.
- 17) *"Towards the Use of Re^I and Ru^{II} Complexes as Photosensitizers in Photodynamic Therapy"*, Swiss-Kyoto Symposium, Zurich (Switzerland), November 2013.
- 18) *"Towards Novel the Use of Re(I) and Ru(II) in Photodynamic Therapy"*, WHAM Meeting, Barcelona (Spain), September 2013.
- 19) *"Towards Novel Organometallic-Based Anthelmintic Drug Candidates"*, International Conference on Biological Inorganic Chemistry, Grenoble (France), July 2013.
- 20) *"Towards the Elucidation of the Mechanism of Action of an inert Ruthenium Anticancer Drug Candidate"*, ACS Conference – Spring Meeting, New Orleans (USA), April 2013.
- 21) *"Towards Novel Metal-Based Anthelmintic and Anticancer Drug Candidates"*, COST Action Meeting CM 1105, Groningen (The Netherlands), February 2013.
- 22) *"Novel Anticancer Ru(II) agents: Towards the Elucidation of their Mechanism of Action"*, WHAM Meeting, Granada (Spain), September 2012.
- 23) *"(Multi)-Ferrocene-Containing Peptide Nucleic Acid Bioconjugates"*, Ferrocene Colloquium, Braunschweig (Germany), February 2012.
- 24) *"Preparation and Biological Applications of novel Organometallic-Containing Peptide Nucleic Acids"*, International Conference on Biological Inorganic Chemistry, Vancouver (Canada), August 2011.
- 25) *"Multi-Organometallic-Containing PNAs: Preparation and Biological Applications"*, International Symposium on Bioorganometallic Chemistry, Bochum (Germany), July 2010.
- 26) *"Ferrocenyl Metal Complexes for Electrochemical Detection of DNA Nucleosides and Anions"*, Ferrocene Colloquium, Prague (Czech Republic), February 2008.
- 27) *"Recognition of Thymine and related Nucleosides by a Zn^{II}-Cyclen Complex bearing a Ferrocenyl Pendant"*, International Conference of Coordination Chemistry", Cape Town (South Africa), August 2006.
- 28) *"Towards Electrochemical Detection of Specific DNA/RNA Strands with Peptide Nucleic Acids bearing a Ferrocenyl Moiety"*, ARC Centre of Excellence for Electromaterials Science Workshop, Melbourne (Australia), May 2006.

AFFILIATIONS

- Swiss Chemical Society.
- American Chemical Society.
- Society of Biological Inorganic Chemistry.
- International Photodynamic Association.
- European Platform for Photodynamic Medicine.
- COST Action CM1105 (Functional Metal Complexes that Bind to Biomolecules).
- Société de Chimie Thérapeutique.

SPORTING ACHIEVEMENTS

- Snowboarding** Qualified Snowboard Instructor.
- Unihockey as player** Semi-finalist in the Swiss Cup (2003).
Quarter finalist in the Swiss Cup (2002 and 2004).
Promotion from 4th to 3rd Division of the Swiss League (1999).
Promotion from 3rd to 2nd Division of the Swiss League (2001).
Promotion from 2nd to 1st Division of the Swiss League (2003).
- Unihockey as coach** Qualified Floorball Coach.
Australian Champion with the Victorian Women's Team (2006).
Victorian Men's State Trainer (2005).
Semi-finalist in the Swiss Cup (2003).
Quarter finalist in the Swiss Cup (2004).
Promotion from 2nd to 1st Division of the Swiss League (2003).

REFEREES

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PUBLICATIONS

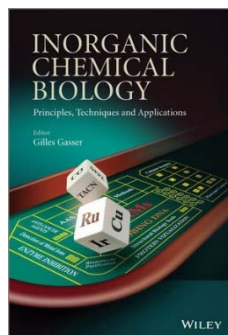
Author of 1 book, 5 book chapters, 21 reviews, >100 articles, 9 patent applications and 7 patents (www.gassergroup.com for a full list). Current *h* index: 35. Total Citations: > 5200.

5 Key Publications

1. V. Pierroz, T. Joshi, A. Leonidova, C. Mari, J. Schur, I. Ott, L. Spiccia, S. Ferrari and **G. Gasser**,* *J. Am. Chem. Soc.* **2012**, *134*, 20376-20387.
2. T. Joshi, V. Pierroz, C. Mari, L. Gemperle, S. Ferrari and **G. Gasser**,* *Angew. Chem. Int. Ed.* **2014**, *53*, 2960-2963.
3. P. Anstaett, Y. Zheng, T. Thai, A.M. Funston, U. Bach and **G. Gasser**,* *Angew. Chem. Int. Ed.* **2013**, *52*, 4217-4220.
4. A. Leonidova, V. Pierroz, R. Rubbiani, Y. Lan, A.G. Schmitz, A. Kaech, R.K.O. Sigel, S. Ferrari and **G. Gasser**,* *Chem. Sci.* **2014**, *5*, 4044-4056. **OPEN ACCESS**
5. A. Leonidova, C. Foerster, K. Zarschler, M. Schubert, H.-J. Pietzsch, J. Steinbach, R. Bergmann, N. Metzler-Nolte, H. Stephan* and **G. Gasser**,* *Chem. Sci.*, **2015**, *6*, 5601-5616. **OPEN ACCESS**

Book

1. **Inorganic Chemical Biology: Principles, Techniques and Applications**
G. Gasser (Ed.),
John Wiley & Sons, Ltd, UK, **2014**, 432 pages.
ISBN: 978-1-11851-002-5
See the [book review](#) of Prof. Peter Sadler in *Angew. Chem. Int. Ed.*



Book Chapters

1. **Organometallic Complexes as Enzyme Inhibitors: A Conceptual Overview**
Bioorganometallic Chemistry: Applications in Drug Discovery, Biocatalysis, and Imaging
(Eds. G. Jaouen, M. Salmayn)
P. Anstätt and **G. Gasser**,* Wiley-VCH, **2015**, 1-42.
ISBN: 978-3-527-33527-5
2. **Other Applications of Metal Complexes in Chemical Biology**
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T. Joshi, M. Patra and **G. Gasser**,* John Wiley & Sons, Ltd, UK, **2014**, 373-401.
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3. **Preparation of Metal-Containing Peptide Nucleic Acid Bioconjugates on the Solid Phase**
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G. Gasser,* Humana Press, **2014**, 55-72.
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Peptide Nucleic Acids, Methods and Protocols, 2nd Edition ed. (Eds. P.E. Nielsen, D.H. Appella)
H. Stephan,* C. Foerster, **G. Gasser**,* Humana Press, **2014**, 37-54.
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5. **Metal Compounds as Enzyme Inhibitors**
Bioinorganic Medicinal Chemistry (Ed. E. Alessio).
G. Gasser* and N. Metzler-Nolte,* Wiley-VCH, Weinheim, **2011**, 351-382.
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DOI: <http://dx.doi.org/10.1021/acs.chemrev.8b00338>
2. **Mechanisms of Action of Ru(II) Polypyridyl Complexes in Living Cells upon Light Irradiation** M. Jakubaszek, B. Goud, S. Ferrari, and **G. Gasser**,* *Chem. Commun*, **2018**, 54, 13040-13059.
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3. **Applications of Ruthenium Complexes covalently linked to Nucleic Acid Derivatives** M. Flamme, E. Clarke, **G. Gasser**,* and M. Hollenstein,* *Molecules*, **2018**, 23, 1515 (invited article for the special issue on Oligonucleotides Application to Nano- and Biotechnology (DNA Origami, DNA Machine)).
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4. **An Overview on PET Radiochemistry: Part 2 - Radiometals** M. Brandt, J. Cardinale, M.L. Aulsebrook, **G. Gasser**, and T.L. Mindt,* *J. Nucl. Med.*, **2018**, accepted.
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5. **Harnessing the Coordination Chemistry of 1,4,7-Triazacyclononane for Biomimicry and Radiopharmaceutical Applications** T.Joshi,* M. Kubeil, A. Nsubuga, G. Singh, **G. Gasser**,* and H. Stephan,* *ChemPlusChem*, **2018**, 83, 554-564 (invited article to special issue dedicated to the late Prof. Leone Spiccia).
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6. **Monomeric and Dimeric Coordinatively Saturated and Substitutionally Inert Ru(II) Polypyridyl Complexes as Anticancer Drug Candidates** A. Notaro and **G. Gasser**,* *Chem. Soc. Rev.*, **2017**, 46, 7317-7337.
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7. **Critical Overview of the Use of Ru(II) Polypyridyl Complexes as Photosensitizers in One-Photon and Two-Photon Photodynamic Therapy** F. Heinemann, J. Karges, and **G. Gasser**,* *Acc. Chem. Res.*, **2017**, 50, 2727-2736 (invited contribution).

DOI: <http://dx.doi.org/10.1021/acs.accounts.7b00180>

8. **The Medicinal Chemistry of Ferrocene and its Derivatives** M. Patra* and **G. Gasser**,* *Nat. Rev. Chem.*, **2017**, 1, 0066 (invited contribution).
DOI: <http://dx.doi.org/10.1038/s41570-017-0066>
9. **New Insights into the Pretargeting Approach to Image and Treat Tumours** M. Patra, K. Zarschler,* H.-J. Pietzsch, H. Stephan, **G. Gasser**,* *Chem. Soc. Rev.*, **2016**, 45, 6415-6431.
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11. **Lightening up Ruthenium Complexes to Fight Cancer?**
C. Mari, and **G. Gasser**,* *Chimia*, **2015**, 69, 176-181 (invited contribution to the special issue "Laureates of the SCS Fall Meeting 2014").
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14. **Towards Tris(diimine)-Ru(II) and Bis(quinoline) Re(I)(CO)₃ Complexes as Photoactivated Anticancer Drug Candidates**
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15. **Underestimated Potential of Organometallic Rhenium Complexes as Anticancer Agents**
A. Leonidova and **G. Gasser**,* *ACS Chem. Biol.*, **2014**, 9, 2180-2193 (invited contribution).
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16. **Peptide Nucleic Acids – an Opportunity for Bio-Nanotechnology**
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17. **Organometallic Compounds, an Opportunity for Chemical Biology?**
M. Patra and **G. Gasser**,* *ChemBioChem*, **2012**, 13, 1232-1252 (invited contribution).
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18. **The Potential of Organometallic Complexes in Medicinal Chemistry**
G. Gasser* and N. Metzler-Nolte,* *Curr. Op. Chem. Biol.*, **2012**, 16, 84-91.
DOI: <http://dx.doi.org/10.1016/j.cbpa.2012.01.013>
19. **Small Organometallic Compounds as Antibacterial Agents**
M. Patra, **G. Gasser*** and N. Metzler-Nolte,* *Dalton Trans.* **2012**, 41, 6350-6358.

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Complexes in Cancer Cells and in the Apicomplexan Parasite *Neospora caninum*

A.P. Basto, N. Anghel, R. Rubbiani, J. Müller, D. Stibal, F. Giannini, G. Süss-Fink, V. Balmer,

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DOI: <http://dx.doi.org/10.1039/c8mt00307f> OPEN ACCESS

2. Mesoporous Silica Nanoparticles Functionalised with a Photoactive Ruthenium(II) Complex: Exploring the Formulation of a Metal-based Photodynamic Therapy Photosensitiser

Y. Ellahioui, M. Patra, C. Mari, R. Kaabi, G. Gasser* and S. Gómez-Ruiz,* *Dalton Trans.*, **2019**, *accepted* (invited article for the themed issue *Bioinspired Reactivity and Coordination Chemistry*).

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3. Synthesis, Characterisation and Biological Evaluation of Red-Absorbing Fe(II) Polypyridine Complexes

J. Karges, P. Goeldner and G. Gasser,* *Inorganics*, **2019**, *7*, 4.

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4. Biological Evaluation of the NIR-Emissive Ruby Analogue [Cr(ddpd)₂]³⁺ as a Photodynamic Therapy Photosensitizer

U. Basu, S. Otto, K. Heinze,* and G. Gasser,* *Eur. J. Inorg. Chem.*, **2019**, *1*, 37-41.

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5. Linker Chemistry Dictates the Delivery of Phototoxic Organometallic Rhenium(I) Complex to Human Cervical Cancer Cells from Core Crosslinked Star Polymer Nanoparticles

S. Hwa Yu, M. Patra, S. Ferrari, P. Ramirez Garcia, N. Veldhuis, B. Graham, J.F. Quinn, M.R. Whittaker,* **G. Gasser**,* and T.P. Davis,* *J. Mat. Chem. B.*, **2018**, 6, 7805-7810.
DOI: <http://dx.doi.org/10.1039/C8TB02464B>

6. **Synthesis, Characterization and Biological Activity of Organometallic Derivatives of the Antimalarial Drug Mefloquine as New Antischistosomal Drug Candidates**
F. d'Orchymont, J. Hess, G. Panic, M. Jakubaszek, J. Keiser,* and **G. Gasser**,* *Med. Chem. Commun.*, **2018**, 9, 1905-1909.
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7. **Assessment of Tegumental Damage to *S. mansoni* and *S. haematobium* after *in vitro* Exposure to Ferrocenyl, Ruthenocenyl and Benzyl Derivatives of Oxamniquine using Scanning Electron Microscopy**
V. Buchter, J. Hess, **G. Gasser**, and J. Keiser,* *Parasites & Vectors*, **2018**, 11, 580.
DOI: <http://dx.doi.org/10.1186/s13071-018-3132-x>
8. **ATR-mediated global fork slowing and reversal assist fork traverse and prevent chromosomal breakage at interstrand DNA crosslinks**
K. Mutrej, J. Krietsch, J. Hess, S. Ursich, M. Berti, R. Zellweger, M. Patra, **G. Gasser** and M. Lopes,* *Cell Reports*, **2018**, 24, 2629-2642.
DOI: <http://dx.doi.org/10.1016/j.celrep.2018.08.019> **OPEN ACCESS**
9. **A potent, selective and orally bioavailable inhibitor of the protein tyrosine phosphatase PTP1B improves insulin and leptin signaling in animal models**
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11. **Novel Organometallic Oxamniquine Derivatives with Cross-species Activity against *Schistosoma mansoni* and *S. haematobium***
J. Hess, G. Panic, M. Patra, L. Mastrobuoni, O. Blacque, S. Roy, J. Keiser* and **G. Gasser**,* *ACS Infect. Dis.*, **2017**, 3, 645-652.
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12. **Extending the Excitation Wavelength of Potential Photosensitizers via Appendage of a Kinetically-Stable Terbium(III) Macrocyclic Complex for Applications in Photodynamic Therapy**
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13. **Dinuclear Thiophenolato-Bridged Arene Ruthenium Complexes as Promising Antiparasitic Agents**

A.P. Basto, J. Müller, R. Rubbiani, F. Giannini, G. Süss-Fink, V. Balmer, A. Hemphill,* **G. Gasser*** and J. Furrer,* *Antimicrob. Agents Chemother.*, **2017**, *61*, e01031-17.
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Highlighted in ChemistryViews
- 15. Immobilisation of Multiple Ligands using Peptide Nucleic Acids: a Strategy to prepare the Microenvironment for Cell Culture**
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- 16. Combining Imaging and Anticancer Properties with Heterobimetallic Pt(II)/M(I) (M = Re, ^{99m}Tc) Complexes**
L. Quental, P. Raposinho, F. Mendes, I. Santos, C. Navarro-Ranninger, A. Alvarez-Valdes, H. Huang, H. Chao, R. Rubbiani, **G. Gasser,*** A.G. Quiroga* and A. Paulo,* *Dalton Trans.*, **2017**, *46*, 14523-14536 (invited contribution for the special issue "Frontiers in Radionuclide Imaging and Therapy" dedicated to Prof. Isabel Santos).
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M. Appold, C. Mari, C. Lederle, J. Elbert, C. Schmidt, I. Ott, B. Stühn, G. Gasser,* and M. Gallei,* *Polym. Chem.*, **2017**, *8*, 890-900.
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- 19. Synthesis of New Tumor Targeting Photosensitizers for Photodynamic Therapy and Imaging Applications**
G. Mion, C. Mari, T. Da Ros, R. Rubbiani, **G. Gasser,*** and T. Gianferrara,* *ChemistrySelect*, **2017**, *2*, 190-200.
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- 20. Influence of the Dissolution Solvent on the Cytotoxicity of Octahedral Cationic Ir(III) Hydride Complexes**
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C. Mari, R. Rubbiani and **G. Gasser**,* *Inorg. Chim. Acta*, **2017**, 454C, 21-26 (invited contribution for the special issue in memory of the late Prof. K.J. Brewer).

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D.J. Vugts,* C. Klaver, C. Sewing, A.J. Poot, K. Adamzek, S. Huegli, C. Mari, H. G.W.M. Visser, I.E. Valverde, **G. Gasser**,* T.L. Mindt,* and G.A.M.S. van Dongen, *Eur. J. Nucl. Med. Mol. Imag.*, **2017**, 44, 286-295.

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24. Synthesis, Characterization and Biological Activity of Ferrocenyl Analogues of the Anthelmintic Drug Monepantel

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25. N-Heterocyclic Carbene-Polyethyleneimine (PEI) Platinum Complexes show *in vitro* and *in vivo* Antitumor Efficacy

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N. Kumari, H. Huang, H. Chao, **G. Gasser** and F. Zelder,* *ChemBioChem*, **2016**, 17, 1211-1215.

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29. Bimodal X-ray and Infrared Imaging of an Organometallic Derivative of Praziquantel in *Schistosoma mansoni*

S. Clède, N. Cowan, F. Lambert, H.C. Bertrand, R. Rubbiani, M. Patra, J. Hess, C. Sandt, N. Trcera, **G. Gasser**,* J. Keiser* and C. Policar,* *ChemBioChem*, **2016**, *17*, 1004-1007.
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- 30. Towards ^{99m}Tc-based Imaging Agents with Effective Doxorubicin Mimetics: A Molecular and Cellular Study**
S. Imstepf, V. Pierroz, P. Raposinho, M. Felber, T. Fox, C. Fernandes, **G. Gasser**, I. R. Santos and R. Alberto,* *Dalton Trans.*, **2016**, *45*, 13025-13033.
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DOI: <http://dx.doi.org/10.1021/acs.organomet.6b00029>
- 32. Sedaxicenes: potential new antifungal Ferrocene-based Agents?**
R. Rubbiani,* O. Blacque and **G. Gasser**,* *Dalton Trans*, **2016**, *45*, 6619-6626.
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- 33. Cellular Uptake and Photo-Cytotoxicity of a Gadolinium(III)-DOTA-Naphthalimide Complex “Clicked” to a Lipidated Tat Peptide**
W.I. O'Malley, R. Rubbiani, M.L. Aulsebrook, M.R. Grace, L. Spiccia, K.L. Tuck,* **G. Gasser*** and B. Graham,* *Molecules*, **2016**, *21*, 194. (invited contribution for the special issue on photoresponsive drugs).
DOI: <http://dx.doi.org/10.3390/molecules21020194> **OPEN ACCESS**
- 34. Luminescent Alkyne-Bearing Terbium(III) Complexes and their Application to Bioorthogonal Protein and Peptide Labeling**
W.I. O'Malley, E.H. Abdelkader, M. L. Aulsebrook, R. Rubbiani, C.-T. Loh, M.R. Grace, L. Spiccia, **G. Gasser**, G. Otting, K.L. Tuck* and B. Graham,* *Inorg. Chem.*, **2016**, *55*, 1674-1682.
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- 2. Bis-Organometallic 2-amino-3-hydroxy-2-methylpropanenitrile Derivatives for Use as Anthelmintics**
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