

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

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PERSONAL DETAILS

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|--------------------------------|--|
| 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 2019** *Deputy Head of the Institute of Chemistry for Life and Health Sciences*, 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

- 2020 **Churchill College Fellowship** for a 5-month stay at Cambridge University (UK).
- 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

- 2019-2021 **INSERM Plan Cancer Research Grant** for the Project "Targeted Photodynamic Therapy towards Head and Neck Cancer with Novel Ruthenium-based Photosensitizers" with Dr. Christian Gaiddon and Dr. Alain Jung (€ 208'448.-). Project Coordinator.

- 2019-2020** **PSL QLife Research Grant** for the Project “Therapeutic Application of Ruthenium-containing Polymers for Ovarian Cancers” (€ 80'000.-).
- 2019-2020** **PSL Pre-Maturation Research Grant** for the Project “Ruthenium Polypyridyl Complexes as Photosensitizers for Selective Photodynamic Therapy” (€ 70'000.-).
- 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” with Dr. Julien Furrer and Prof. Andrew Hemphill (CHF 1'547'903.-).
- 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” with Prof. Hongjie Dai (€ 7'500.-).
- 2017-2018** **New York University-PSL International Collaborative Project** for the Project “Targeting and Inhibition of Deacetylases with Photosensitizer-Aptamer Conjugates” with Dr. Marcel Hollenstein, Prof. Daniela Buccella and Prof. Yingkai Zhang (€ 10'000.-).
- 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” with Prof. Thomas Mindt (CHF 350'000.-).
- 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 Metallocene-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.-).

INDUSTRIAL GRANTS

5 industrial grants since 2017 at Chimie ParisTech for a total amount of 145'000 €.

PUBLICATIONS

Author of 1 book, 5 book chapters, 27 reviews, 133 articles, 11 patent applications and 7 patents (www.gassergroup.com for a full list). Current *h* index: 38. Total Citations: > 6400.

5 Key Recent Publications

1. Targeted Photoredox Catalysis in Cancer Cells

H. Huang, S. Banerjee, K. Qiu, P. Zhang, O. Blacque, T. Malcomson, M.J. Paterson, G.J. Clarkson, M. Staniforth, V.G. Stavros, **G. Gasser**,* H. Chao,* and P.J. Sadler,* *Nature Chem.*, **2019**, 11, 1041-1048.

DOI: <http://dx.doi.org/10.1038/s41557-019-0328-4>

2. **Polymeric Encapsulation of Novel Homoleptic Bis(dipyrrinato) Zinc(II) Complexes with Long Lifetimes for Applications as Photodynamic Therapy Photosensitisers**
J. Karges, U. Basu, O. Blacque, H. Chao,* and **G. Gasser**,* *Angew. Chem. Int. Ed.*, **58**, 14334-14340.
DOI: <http://dx.doi.org/10.1002/anie.201907856>
3. **Dual Mode of Cell Death upon the Photo-Irradiation of a Ru^{II} polypyridyl Complex in Interphase and Mitosis**
V. Pierroz, R. Rubbiani, C. Gentili, M. Patra, C. Mari, **G. Gasser*** and S. Ferrari,* *Chem. Sci.*, **2016**, 7, 6115-6124.
DOI: <http://dx.doi.org/10.1039/C6SC00387G> **OPEN ACCESS**
4. **Highly Charged Ruthenium(II) Polypyridyl Complexes as Lysosome-Localized Photosensitizers for Two-Photon Photodynamic Therapy**
H. Huang, B. Yu, P. Zhang, J. Huang, Y. Chen, **G. Gasser**,* L. Ji and H. Chao,* *Angew. Chem. Int. Ed.*, **2015**, *54*, 14049-14052.
DOI: <http://dx.doi.org/10.1002/anie.201507800>
VIP Article
5. **In vivo Demonstration of a Tumor Pretargeting Approach with Peptide Nucleic Acids as Complementary System**
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.
DOI: <http://dx.doi.org/10.1039/C5SC00951K> **OPEN ACCESS**
Highlighted on chemie.de, bionity.com, ChemieXtra and Helmholtz Association.

TEACHING AND STUDENT EVALUATION

- Since 2020** Lecturing at the Master of Chemistry of Chimie ParisTech.
Duties: Preparing and lecturing the subject “*Bioinorganic Chemistry*” to MSc students.
- Since 2019** Lecturing at the Master of Chemistry of Paris-Centre.
Duties: Preparing, lecturing (part of) and coordinating the subject “Molecules, Metal Ions and Metal Complexes in Biology and Medicine” (UE 5C407) to MSc students.
- Since 2018** Lecturing at the Master PSL Chemical Frontiers of Living Matter.
Duties: Organising and coordinating scientific seminars to MSc students. Marking Reports on the Seminars.
- 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.
- Since 2016** Representative of Chimie ParisTech at the Master PSL Chemical Frontiers of Living Matter.
Duties: Representing Chimie ParisTech in this multi-institutional Master.
- 2018-2019** 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.
- 2018** Lecturing at the Master of Chemistry of Paris-Centre.
Duties: Preparing, lecturing (part of) and coordinating the subject “*Biologie Chimique: Chimie des Processus Biologiques*” (UE 5C407) 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 2019** Editorial Advisory Board Member of *J. Biol. Inorg. Chem.*
- Since 2018** Editorial Board Member of *Metallomics*.
- Since 2018** Co-Founder 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 *Photodiagn. Photodyn. Ther.*
- 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 *European Research Council* (ERC), *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 Zurich* (Switzerland), 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 *Ecole Normale Supérieure de Paris*, the *University of Lille 2* (France), the *University of Strasbourg* (France), the *University of Burgundy* (France), the *CEA* (France), the *University of Toulouse* (France), the *University of Brest*, *Leiden University* (the Netherlands), the *Ruhr-University Bochum* (Germany), the *University of Vienna* (Austria), *Trieste University* (Italy), the *University of Leeds* (UK), the *Royal College of Surgeons Dublin* (Ireland), *Trinity College Dublin* (Ireland), *Hong Kong Baptist University* (Hong Kong), *Monash University* (Australia), the *University of the Free State Bloemfontein* (South Africa) and the *University of Cape Town* (South Africa).

RESEARCH INTERESTS

Medicinal Organometallic Chemistry, Anticancer and Antiparasitic 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), Dr. Robin Vinck (01/11/2019-current), Anna Notaro (01/2020-current),

PhD Students: 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).

Bsc/Msc Student: James Ng (05/2019-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), Lauren Fernandez Vega (01/2019-current, exchanged PhD student), Johannes Karges (11/2016-11/2019), Franz Heinemann (11/2016-11/2019), Anna Notaro (01/2017-11/2019).

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), Maëlle Baude (11/2018-01/2019), Maximilian Fellert (10/2018-02/2019), Mazzarine Dotou (01/2019-07/2019), Nicolas Berenguer (02/2019-07/2019), Karen Junghans (02/2019-07/2019).

MAIN COLLABORATIONS (IN ALPHABETICAL ORDER)

- Prof. Enzo Alessio, University of Trieste, Italy, *Synthesis of Photosensitizers*.
- Dr. Olivier Blacque, University of Zurich, Switzerland. *X-ray Crystallography*.
- Prof. Annie Castonguay, INRS Montreal, Canada, *Biological Evaluation of Metal Complexes on Zebrafish*.
- Prof. Hui Chao, Sun Yat-Sen University, China. *2P-PDT*.
- Dr. Ilaria Ciofini, Chimie ParisTech, France. *DFT Calculations*.
- Prof. Hongjie Dai, Stanford University, USA. *Imaging*.
- Prof. Paul Dyson, EPFL, Switzerland. *Metal Complexes for PDT Applications*.
- PD Stefano Ferrari, University of Zurich, Switzerland. *Biological Evaluation of Metal Complexes on Cancer Cells*.
- PD Julien Furrer, University of Berne, Switzerland. *Biological Evaluation of Metal Complexes on Parasites*
- Prof. Markus Gallei, Technical University Darmstadt, Germany. *Drug Release*.
- Prof. Robin Gasser, University of Melbourne, Australia. *Biological Evaluation of Metal Complexes on Parasites*.
- Prof. Santiago Gomez Ruiz, Spain. *Synthesis of Nanoparticles for PDT*.
- Dr. Bruno Goud, Institut Curie, PSL University, France, *Biological Evaluation of Metal Complexes on Cancer Cells*.
- 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, Medical University Vienna, Austria. *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*.
- Dr. Felix Zelder, University of Zurich, Switzerland. *Biosensing*.

INVITED TALKS

22 plenary/keynote speaker invitations, 57 invited talks at universities/Companies and 30 offered talks at conferences.

a) Plenary/Keynote/Invited Speaker Invitations at Conferences/Summer Schools

- 1) *"Metal Complexes in Medicinal Chemistry"*, Royal Australian Chemical Institute (RACI) Conference, Wollongong (Australia), December 2019.
- 2) *"Metal Complexes as Diagnostics and Therapeutics"*, Workshop on Imaging of diagnostic and Therapeutic Biomarkers in Oncology, Vannes (France), September 2019.
- 3) *"Organometallic Compounds against Human and Livestock Animal Parasitic Diseases"*, International Symposium on Bioorganometallic Chemistry (ISBOMC 2019), York (UK), August 2019.
- 4) *"Metal Complexes in Medicinal Chemistry"*, 4th Meeting of the Lisbon University Chemistry College, Lisbon (Portugal), July 2019.
- 5) *"Organometallic Compounds against Parasitic Diseases"*, Nara International Conference on Applied Bioinorganic Chemistry (NICAB), Nara Women's University (Japan), June 2019.
- 6) *"Towards Targeted Photodynamic Therapy with Metal-based Photosensitizers"*, 15th International Symposium on Applied Bioinorganic Chemistry, Nara (Japan), June 2019.
- 7) *"Targeted Photodynamic Therapy with Metal-based Photosensitizers"*, PDT and PD Update Conference, Kochel am See (Germany), September 2018.
- 8) *"Organometallic Compounds as Antiparasitical and Antifungal Drug Candidates"*, XXXV GEQO Congress Organometallic Chemistry Group Conference, Zaragoza (Spain), August 2018.
- 9) *"Metal Complexes and Medicinal Chemistry: what a Combination!"*, EuroBIC Conference, Birmingham (UK), August 2018.
- 10) *"Organometallic Compounds against Human and Livestock Animal Parasitic Diseases"*, COST Meeting Chemotherapy Towards Diseases Caused by Endoparasites, Lausanne (Switzerland), October 2017.
- 11) *"Metal Complexes as Photosensitizers in Photodynamic Therapy"*, SolChem Conference 2017, Ulm (Germany), October 2017.
- 12) *"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.
- 13) *"Organometallic Compounds against Human and Livestock Animal Parasitic Diseases"*, International Symposium on Bioorganometallic Chemistry (ISBOMC 2016), Moscow (Russia), September 2016.
- 14) *"Bioorganometallic Chemistry to fight Schistosomiasis"*, 27th International Conference on Organometallic Chemistry (ICOMC 2016), Melbourne (Australia), July 2016.
- 15) *"Metal Complexes as Phototoxic Anticancer Agents"*, Gordon Conference on Metals in Medicine, New Hampshire (US), June 2016.
- 16) *"Metal Complexes in Medicinal Chemistry"*, Summer School in Supramolecular Chemistry, Borovets (Bulgaria), June 2016.
- 17) *"Towards the Selective Photo-Release of Organometallic-based Enzyme Inhibitors in Living Cells"*, BioChem Forum, Strasbourg (France), June 2016.
- 18) *"Towards Organometallic Antischistosomal Candidates"*, 21th European Association for Chemical and Molecular Sciences Conference on Organometallic Chemistry (EuCOMC XXI), Bratislava (Slovakia), July 2015.
- 19) *"New Perspectives in the use of Metal Complexes in Medicinal Chemistry"*, Swiss Chemical Society Meeting, Basel (Switzerland), April 2015.
- 20) *"Novel Opportunities in PDT using Metal Complexes"*, The International Congress on Photodynamic Applications, Dundee (Scotland), May 2014.

- 21) *"Metal Complexes in Photodynamic Therapy"*, 5th International Meeting of the European Platform for Photodynamic Medicine, Ustron (Poland), November 2013.
- 22) *"Novel Concepts in Medicinal Inorganic Chemistry"*, Young Faculty Meeting, Bern (Switzerland), June 2012.
- 23) *"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"*, Macquarie University, December 2019.
- 2) *"Metal Complexes in Medicinal Chemistry"*, University of Hong Kong, December 2019.
- 3) *"Metal Complexes in Medicinal Chemistry"*, University of Brest (France), December 2019.
- 4) *"Metal Complexes in Medicinal Chemistry"*, University of Barcelona (Spain), October 2019.
- 5) *"Metal Complexes in Medicinal Chemistry"*, McGill University (Canada), May 2019.
- 6) *"Metal Complexes in Medicinal Chemistry"*, INRS-Institut Armand Frappier (Canada), May 2019.
- 7) *"Metal Complexes in Medicinal Chemistry"*, University of Montpellier (France), March 2019.
- 8) *"Metal Complexes in Medicinal Chemistry"*, Descartes University (France), March 2019.
- 9) *"Metal Complexes in Medicinal Chemistry"*, Newcastle University (UK), March 2019.
- 10) *"Metal Complexes in Medicinal Chemistry"*, ITQB Lisbon (Portugal), February 2019.
- 11) *"Metal Complexes in Medicinal Chemistry"*, University of Durham (UK), February 2019.
- 12) *"Metal Complexes in Medicinal Chemistry"*, King's College (UK), November 2018.
- 13) *"Metal Complexes in Medicinal Chemistry"*, University of Tübingen (Germany), October 2018.
- 14) *"Metal Complexes in Medicinal Chemistry"*, University of Bretagne Occidentale (France), October 2018.
- 15) *"Metal Complexes in Medicine"*, ICSN, University Paris-Saclay (France), June 2018.
- 16) *"Metal Complexes in Medicine"*, New York University (USA), May 2018.
- 17) *"Metal Complexes in Medicine"*, University of Burgos (Spain), April 2018.
- 18) *"Metal Complexes in Medicine"*, CEA, University Paris-Saclay (France), April 2018.
- 19) *"Metal Complexes in Medicinal Chemistry"*, Institut Pasteur (France), April 2018.
- 20) *"Metal Complexes in Medicinal Chemistry"*, Laboratoire de Chimie de Coordination de Toulouse (France), February 2018.
- 21) *"Metal Complexes in Medicinal Chemistry"*, Ecole Normale Supérieure de Lyon (France), February 2018.
- 22) *"Metal Complexes as Photosensitizers in Photodynamic Therapy"*, University of Reading (UK), July 2017.
- 23) *"Metal Compounds in Medicinal Chemistry"*, University of Sussex (UK), April 2017.
- 24) *"Metal Complexes in Medicinal Chemistry"*, University of Zurich (Switzerland), *Ernest Th. Jucker Prize Ceremony*, April 2017.
- 25) *"Metal Complexes in Medicinal Chemistry"*, Paris Descartes University (France), February 2017.
- 26) *"Metal Complexes in Medicinal Chemistry"*, Chimie ParisTech (France), December 2016.
- 27) *"Combination of Light and Metal Complexes to kill Cancer Cells and Bacteria"*, University of Sydney (Australia), July 2016.

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

- 53) *"A Journey through the Preparation and Biological Applications of Metal-Containing Peptide Nucleic Acids"*, University of Birmingham (England), June 2011.
- 54) *"A Journey through the Preparation and Biological Applications of Metal-Containing Peptide Nucleic Acids"*, Technical University Braunschweig (Germany), December 2010.
- 55) *"Biological Applications of Metal-Containing Peptide Nucleic Acids"*, Helmholtz-Zentrum Dresden-Rossendorf (Germany), October 2009.
- 56) *"Metal Complexes containing Peptide Nucleic Acids for Medicinal and Biosensing Applications"*, University of Neuchâtel (Switzerland), October 2008.
- 57) *"Metal Complexes containing Peptide Nucleic Acids for Medicinal and Biosensing Applications"*, University of Zurich (Switzerland), October 2008.
- 58) *"Modified Peptide Nucleic Acids for Medicinal Applications"*, Helmholtz-Zentrum Dresden-Rossendorf (Germany), November 2007.
- 59) *"Use of Ferrocenyl Complexes and Peptide Nucleic Acids for Different Biological Applications"*, Helmholtz-Zentrum Dresden-Rossendorf (Germany), October 2006.
- 60) *"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) *"Complexes de Ruthénium comme Photosensibilisateurs pour la Thérapie Photodynamique"*, 2ème Journée Française sur la Thérapie Photodynamique, Lille (France), November 2019
- 2) *"Metallocene-containing Complexes as Antiparasitic and Antifungal Drug Candidates"*, 9ème Journée du Consortium anti-Parasitaire et anti-Fongique (CaPF), Rouen (France), March 2019.
- 3) *"Metal Complexes and Medicinal Chemistry: what a Combination"*, 1st Singapore-Paris Chemical Biology Symposium, Singapore (Singapore), March 2019.
- 4) *"Metallocene-containing Complexes as Antiparasitic and Antifungal Drug Candidates"*, 9th Asian Biological Inorganic Chemistry (AsBIC) Conference, Singapore (Singapore), December 2018.
- 5) *"Organometallic Compounds as Antiparasitical and Antifungal Drug Candidates"*, 8ème Journée du Consortium anti-Parasitaire et anti-Fongique (CaPF), Lyon (France), March 2018.
- 6) *"Metal Complexes as Photosensitizers in Photodynamic Therapy"*, 22nd International Symposium on Photochemistry and Photophysics of Coordination Compounds, Oxford (UK), July 2017.
- 7) *"Metal Complexes as Photosensitizers in Photodynamic Therapy"*, 14th International Symposium on Applied Bioinorganic Chemistry, Toulouse (France), June 2017.
- 8) *"Organometallic Compounds against Human and Livestock Animal Parasitic Diseases"*, FrenchBIC, Toulouse (France), June 2017.
- 9) *"Ru(II) Polypyridyl Complexes in (2-Photon Excitation) Photodynamic Therapy"*, Excited States in Complex Systems, Paris (France), November 2016.
- 10) *"Ru(II) Polypyridyl Complexes as Photosensitizers in (Two-Photon Excitation) Photodynamic Therapy"*, Photodynamic Therapy & Photodiagnosis (PDT PDD) Symposium, Nancy (France), October 2016.
- 11) *"Selective Photo-release of Organometallic-containing Enzyme Inhibitors"*, 4th Whole Action Meeting of the COST Action CM1105, Palma de Mallorca (Spain), April 2016.

- 12) *“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.
- 13) *“Evaluation of novel Ru(II) Polypyridyl Complexes as Photosensitizers in Photodynamic Therapy”*, COST Meeting, Belgrade (Serbia), September 2015.
- 14) *“Ru(II) Polypyridyl Complexes as potent Photosensitizers in Photodynamic Therapy”*, ACS Conference – Fall Meeting, Boston (USA), September 2015.
- 15) *“Ru(II) Complexes as potent Photosensitizers in Photodynamic Therapy”*, International Photodynamic Association Conference, Rio de Janeiro (Brazil), May 2015.
- 16) *“Phototoxic Metal Bioconjugates with a Dual Mode of Action”*, COST Meeting, Zurich (Switzerland), August 2014.
- 17) *“Organometallic Compounds to fight Schistosomiasis”*, International Symposium on Bioorganometallic Chemistry, Vienna (Austria), July 2014.
- 18) *“Towards Novel the Use of Re(I) and Ru(II) in Photodynamic Therapy”*, The International Congress on Photodynamic Applications, Dundee (Scotland), May 2014.
- 19) *“Photodelivery of Cytotoxic Metal Complexes in Living Cells”*, COST Meeting, Madrid (Spain), April 2014.
- 20) *“Towards the Use of Re^I and Ru^{II} Complexes as Photosensitizers in Photodynamic Therapy”*, Swiss-Kyoto Symposium, Zurich (Switzerland), November 2013.
- 21) *“Towards Novel the Use of Re(I) and Ru(II) in Photodynamic Therapy”*, WHAM Meeting, Barcelona (Spain), September 2013.
- 22) *“Towards Novel Organometallic-Based Anthelmintic Drug Candidates”*, International Conference on Biological Inorganic Chemistry, Grenoble (France), July 2013.
- 23) *“Towards the Elucidation of the Mechanism of Action of an inert Ruthenium Anticancer Drug Candidate”*, ACS Conference – Spring Meeting, New Orleans (USA), April 2013.
- 24) *“Towards Novel Metal-Based Anthelmintic and Anticancer Drug Candidates”*, COST Action Meeting CM 1105, Groningen (The Netherlands), February 2013.
- 25) *“Novel Anticancer Ru(II) agents: Towards the Elucidation of their Mechanism of Action”*, WHAM Meeting, Granada (Spain), September 2012.
- 26) *“(Multi)-Ferrocene-Containing Peptide Nucleic Acid Bioconjugates”*, Ferrocene Colloquium, Braunschweig (Germany), February 2012.
- 27) *“Preparation and Biological Applications of novel Organometallic-Containing Peptide Nucleic Acids”*, International Conference on Biological Inorganic Chemistry, Vancouver (Canada), August 2011.
- 28) *“Multi-Organometallic-Containing PNAs: Preparation and Biological Applications”*, International Symposium on Bioorganometallic Chemistry, Bochum (Germany), July 2010.
- 29) *“Ferrocenyl Metal Complexes for Electrochemical Detection of DNA Nucleosides and Anions”*, Ferrocene Colloquium, Prague (Czech Republic), February 2008.
- 30) *“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.
- 31) *“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.
- Société Chimique de France

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).

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