

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.
Languages French (mother tongue), English (fluent), German (fluent).

PROFESSIONAL POSITIONS

a) Faculty

Since 2024 *Dean of International Affairs*, Chimie ParisTech, PSL University (France).
Since 2024 *Co-Director of the Major Research Program Centre “Chemical Cell States” of PSL University*.
Since 2019 *Deputy Head of the Institute of Chemistry for Life and Health Sciences*, Chimie ParisTech, PSL University, CNRS (France).
Since 2016 *Full Professor*, 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

- 2026** *Helv. Chim. Acta Lectureship* (Senior Level).
- 2026** Nomination as a *Chemistry Europe Fellow*.
- 2025** *University of Macau Distinguished Visiting Scholar*.
- 2024** *Cannizzaro-Arnaudon Lectureship* jointly delivered by the Italian and French Chemical Societies for outstanding scientific achievements in medicinal and inorganic chemistry.
- 2024** *Prix Seqens from the French Academy of Sciences* for outstanding work in medicinal chemistry.
- 2023** *Coordination Chemistry Prize* from the French Chemical Society (Senior Level).
- 2023** *ERC Proof of Concept Grant* (150'000 €).
- 2023** *Top 10% of the Reviewers for Angew. Chem. Int. Ed.* in 2023
- 2022** *Royal Society of Chemistry Dalton Division Horizon Prize* for work on in-cell Organometallic Redox Catalysis.
- 2021** *Fellow of the Royal Society of Chemistry*.
- 2020** *Top 5% of the Reviewers for Angew. Chem. Int. Ed.* in 2020.
- 2020** *Pierre Fabre Award* for therapeutic innovation from the Société de Chimie Thérapeutique (SCT).
- 2020** *Churchill College Fellowship* for a 5-month stay at Cambridge University (UK).
- 2018** *EuroBIC Medal* 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* as 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).

AWARDS / FELLOWSHIPS Obtained by Post-Docs/PhD Students

2026	CSC PhD Scholarship , Xiaorui Zhang.
2026	CSC PhD Scholarship , Jianglong Hu.
2025	Ecole Normale Supérieure PhD Grant , Camille Baland.
2025	Polytechnique PhD Grant , Anzo Massiot.
2025	CSC PhD Scholarship , Jiangshan Guo.
2025	CSC PhD Scholarship , Kun Chi.
2025	Hong Kong University of Science and Technology PhD Exchange Grant , Ziyi Zhang.
2025	MCTI/CNPq-Brazil PhD Grant , Antonio Caian de Sousa Silva Rodrigues.
2024	Atlânticas CNPq Post-doctoral Grant , Dr. Laiane Oliveria.
2024	Prix Jeunes Talent en Chimie Inorganique , Dr. Lisa Gourdon-Grünewaldt.
2024	Ecole Normale Supérieure PhD Grant , Basile Parmelli.
2024	CSC PhD Scholarship , Tingting Li.
2024	Fondation pour la Recherche Médicale Fellowship , Dr. Marta Redrado.
2023	Xunta de Galicia Fellowship , Dr. Giulia Salluce.
2023	DGA PhD Grant , Corentin Ludwig.
2023	CSC PhD Scholarship , Ruonan Gao.
2023	CSC PhD Scholarship , Lei Zhou.
2023	CSC PhD Scholarship , Zhenhuan Chen.
2023	Marie Skłodowska-Curie Post-Doctoral Fellowship , Dr. Gloria Vigueras.
2022	Margarita Salas Post-Doctoral Fellowship , Dr. Gloria Vigueras.
2022	FAPESP Post-Doctoral Grant , Dr. Marcos Palmeira.
2022	CSC PhD Scholarship , Zhimei Xiao.
2022	CSC PhD Scholarship , Shuai Zhong.
2022	CSC PhD Scholarship , Yiqian Wong.
2022	ARC Foundation Post-Doctoral Fellowship , Dr. Matthieu Scarpi-Luttenauer.
2022	Margarita Salas Post-Doctoral Fellowship , Dr. Eduardo Izquierdo Garcia.
2022	Wilhelm-Ostwald-Gesellschaft Prize , best PhD thesis in Chemistry in Germany, Dr. Johannes Karges.
2021	CSC PhD Scholarship , Yiyi Zhang.
2021	CSC PhD Scholarship , Siqi Zhang.

2020	René Dabard PhD Prize , best PhD thesis in Chemistry in France, Dr. Johannes Karges.
2020	Poster Prize from the Young Chemistry Summit Jungchemiker Oesterreich , Dr. Johannes Karges.
2020	Reaxys PhD Prize Finalist , Dr. Johannes Karges.
2020	ARC Foundation Post-Doctoral Fellowship , Dr. Albert Gandosio-Ubieto.
2020	CSC PhD Scholarship , Youchao Wang.
2020	MSC-ITN-ETN Fellowship , Maria Dalla Pozza.
2020	Ecole Normale Supérieure PhD Grant , Lisa Gourdon.
2019	Marie Skłodowska-Curie Post-Doctoral Fellowship , Dr. Marta Martinez-Alonso.
2018	Alexander von Humboldt Post-Doctoral Fellowship , Dr. Sarah Keller.
2018	Swiss National Science Foundation Fellowship for Prospective Researchers , Dr. Sarah Keller.
2018	CSC PhD Scholarship , Yan Lin.
2017	ARC Foundation Post-Doctoral Fellowship , Dr. Luke McKenzie.
2014	Swiss Government Post-Doctoral Fellowship , Dr. Loganathan Rangasamy.
2014	Swiss Government Post-Doctoral Fellowship , Dr. Konstantis Konidaris.
2015	Victorian Research Post-Doctoral Fellowship , Dr. Phuc Ung
2014	UBS Promedica Stiftung Post-Doctoral Fellowship , Dr. Riccardo Rubbiani.

RESEARCH GRANTS

2026-2030	Institut National du Cancer Grant for the Project « <i>Plateforme d'évaluation de la photo-immunothérapie (PITEP) pour le cancer de la tête et du cou</i> » with Dr. Sophie Martin and Dr. Carlotta Figliola and Dr. Halina Anton (€ 183'600.-).
2025-2026	PSL Pre-Maturation Research Grant for the Project "Ruthenium-containing Polymers against Ovarian Cancers" with Dr. Didier Decaudin and Prof. Christophe Thomas (€ 90'000.-). Project Coordinator.
2024-2029	ANR-PEPR Research Grant for the Project "PDT to meet the challenge of treating pancreatic cancer" (€ 259'200.-).
2023-2026	ANR Research Grant for the Project "Organometallic-containing Triazoles against Resistant Fungi" with Dr. Kevin Cariou and Prof. Philippe Le Pape (€ 210'276.-).
2022-2025	ANR Research Grant for the Project "Bi-Metallic Complexes for Synergistic and Theranostic Applications" with Prof. Thomas Mindt Dr. Kevin Cariou (€ 206'192.-). Project Coordinator.
2021-2024	ARC Fondation Research Grant for the Project "Rôle de la voie de signalisation mTOR et de la mort cellulaire immunogène dans l'activité anti-cancéreuse de la thérapie photodynamique ciblée à base de dérivés d'Osmium" with Dr. Christian Gaidon (€ 128'000.-).
2020-2024	MSC-ITN-ETN for the project "Nucleic Acids for Future Gene Editing, Immunotherapy and Epigenetic Sequence Modification" (€ 274'802.-).
2020-2024	ANR Research Grant for the Project "Catalysis in Cells using Light and Supramolecular Metallic Scaffolds" with Dr. Sylvain Roland, Prof. Matthieu Sollogoub and Dr. Kevin Cariou (€ 235'440.-).
2019-2021	PSL Qlife-UCSF Grant for the Project "Novel Bioorganometallic Drugs to Treat Neglected Tropical Diseases" with Dr. Kevin Cariou, Prof. Judy Sakanari and Prof. Makedonka Mitreva (€ 75'000.-). Project Coordinator.

- 2019-2022** ***INSERM Plan Cancer Research Grant*** for the Project “Targeted Photodynamic Therapy towards Head and Neck Cancer with Novel Ruthenium-based Photosensitizers” with Dr. Christian Gaidon 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.-) with Dr. Didier Decaudin and Prof. Christophe Thomas. Project Coordinator.
- 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 “Metalloccenyl 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 “Metalloccenyl 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

10 industrial agreements since 2017 at Chimie ParisTech for a total amount of > 1'00'000 €.

PUBLICATIONS

Author of 1 book, 5 book chapters, 55 reviews, > 230 articles, 13 patent applications and 9 patents (www.gassergroup.com for a full list). Current *h* index: 70. Total Citations: > 21'200.

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. Rationally Designed Ruthenium Complexes for 1- and 2-Photon Photodynamic Therapy

J. Karges, S. Kuang, F. Maschietto, O. Blacque, I. Ciofini, H. Chao,* and **G. Gasser**,* *Nature Commun.*, **2020**, 11, 3262.

DOI: <https://www.nature.com/articles/s41467-020-16993-0> **OPEN ACCESS**

3. A Deep-Red-Absorbing Osmium(II)-based Photosensitizer Evokes Pyroptosis by Targeting Glutamine Metabolism and Impairing Cell Redox Homeostasis

Y. Zhang, Z. Xiao, J. Southwell, R. Gao, B. Saubaméa, M. Moinard, P. Arnoux, C. Frochot, P. Mesdom,* **G. Gasser**,* *J. Am. Chem. Soc.*, **2026**, 148, 18407-18421.

DOI: <https://doi.org/10.1021/jacs.6c04446>

4. A Deep-Red-Absorbing Osmium(II) Complex as a Photosensitizer for Photodynamic Therapy inducing Immunogenic Cell Death

Y. Zhang, P. Mesdom, E. Izquierdo García, J.P.M. António, R. Gao, B. Saubaméa, J. Seguin, M. Moinard, P. Arnoux, C. Frochot, K. Cariou, B.-T Doan and **G. Gasser**,* *Angew. Chem. Int. Ed.*, **2026**, 65, e8677989.

DOI: <https://doi.org/10.1002/anie.8677989> **OPEN ACCESS**

5. A Triple Threat Against Ovarian Cancer: Os(II)-Pt(IV)-Ceritinib Conjugates for Photodynamic Therapy, Chemotherapy, and Immunogenic Cell Death Induction

M. Redrado, S. Acharya, P. Mesdom, T. Babu, J.W. Southwell, L.S. Oliveira, D. Gibson,* and **Gasser**,* *Angew. Chem. Int. Ed.*, **2025**, 64, e202518623.

DOI: <https://doi.org/10.1002/anie.202518623> **OPEN ACCESS**

TEACHING AND STUDENT EVALUATION

Since 2025 Lecturing at the Master of Chemistry of Chimie ParisTech.

Duties: Preparing, lecturing (part of) and coordinating the subject “*Inorganic Chemical Biology*” to MSc students.

Since 2020 Lecturing at the Master of Chemistry of Chimie ParisTech.

Duties: Preparing and lecturing the subject “*Bioinorganic Chemistry*” to MSc students.

2019-2025 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.

2018-2025 Lecturing at the Master PSL Chemistry and Life Sciences.

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 Chemistry and Life Sciences.
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

- 2026** Co-Chair of the Gordon Conference on Metals in Medicine in Andover (USA).
- 2025** Co-Chair of the International Symposium on Bioorganometallic Chemistry (ISBOMC), Paris (France).
- 2024** Co-Vice-Chair of the Gordon Conference on Metals in Medicine in Andover (USA).
- Since 2023** Chair of the Advisory Board of the International Symposium on Bioorganometallic Chemistry (ISBOMC).
- Since 2023** Editorial Advisory Board Member of *Chem. Sci.*
- 2023** Scientific Committee Organiser of the International Symposium on Bioorganometallic Chemistry (ISBOMC) held in Braunschweig (Germany).
- Since 2023** Co-Chair of the Advisory Board of *ChemBioChem*.
- Since 2022** Editorial Advisory Board Member of *Helv. Chim. Acta*.
- Since 2021** President of the French *Consortium Against Parasites and Fungi* (CaPF)
- Since 2020** Associate Editor of *Metallomics*.

- 2019** Organiser of the *Metals in Medicine Workshop*, Paris, November 2019.
- Since 2019** Editorial Advisory Board Member of *J. Biol. Inorg. Chem.*
- 2018-2020** Editorial Board Member of *Metallomics*.
- Since 2018** Co-Founder and Co-organiser of the *PSL Bioinorganic Chemistry Seminars*.
- 2017-2020** President of the European Platform for Photomedicine (EPPM).
- 2016** Advisory Board Member of the International Symposium on Bioorganometallic Chemistry (ISBOMC).
- 2016** Scientific Committee Organiser of the International Symposium on Bioorganometallic Chemistry (ISBOMC) held in Moscow (Russia).
- Since 2015** Editorial Advisory Board Member of *ChemBioChem*.
- 2015-2017** 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 2010** Active reviewer for numerous peer-reviewed journals such as *Nature Chem.*, *Nature Commun.*, *Nature Protocols*, *J. Am. Chem. Soc.*, *Angew. Chem. Int. Ed.*, *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 Paris-Saclay* (France), the *University of Strasbourg* (France), the *University of Burgundy* (France), the *CEA* (France), the *University of Toulouse* (France), the *University of Brest* (France), the *University of Angers* (France), the *University of Bruxelles* (Belgium), *Leiden University* (the Netherlands), the *Ruhr-University Bochum* (Germany), the *University of Murcia* (Spain), the *Universidad Rey Juan Carlos* (Spain), the *University of Vienna* (Austria), *Trieste University* (Italy), *Durham University* (UK), the *University of Birmingham*, the *University of Leeds* (UK), the *University of Hull* (UK), *Greenwich University* (UK), the *Royal College of Surgeons Dublin* (Ireland), *Trinity College Dublin* (Ireland), *Hong Kong Baptiste University* (Hong Kong), *Nanyang Technological University* (Singapore), *Macquarie University* (Australia), *Monash University* (Australia), *Western Sydney 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)

- Permanent :** Dr. Kevin Cariou (01/2020-current), Dr. Pierre Mesdom (02/2023-current), Dr. Maxime Klausen (12/2024-current).
- Post-docs:** Dr. Giulia Salluce (01/2024-current), Dr. Ziyi Zhang (01/2026-current).
- PhD Students:** Ruonan Gao (10/2023-current), Zhenhua Chen (10/2023-current), Apolline Kalamatianou (10/2023-current), Corentin Ludwig (10/2023-current), Lei Zhou (10/2022-10/2025), Basille Parmelli (10/2024-current), Tingting Li (10/2024-current), Lara Wild (03/2025-current), Camille Baland (10/2025-current), Anzo Massiot (10/2025-current), Jiangshan Guo (10/2025-current), Kun Chi (10/2025-current), Sophia Outenah (10/2025-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 Konidakis (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 Villemain (09/2017-09/2018), Dr. Yih Ching Ong (10/2017-10/2020), Anna Notaro (01/2020-11/2020), Dr. Sarah Keller (11/2018-11/2020), Dr. Marta Martinez-Alonso (3/2020-06/2021), Dr. Joseph Cowell (05/2018-08/2021), Dr. Robin Vinck (01/11/2019-10/11/2021), Dr. Luke McKenzie (05/2018-12/2021), Dr. João Antonio (09/2020-03/2022), Dr. Cillian O'Beirne (04/2021-03/2022), Dr. Harley Betts (01/2021-05/2022), Dr. Albert Gandosio (10/2020-10/2022), Dr. Kallol Purkait (11/2020-11/2022), Dr. Eduardo Izquierdo-Garcia (04/2022-03/2023), Dr. Marcos Palmeira (02/2023-11/2023), Dr. James Southwell (10/2021-08/2024), Dr. Gloria Viguera (11/2022-03/2025), Dr. Matthieu Scarpi-Luttenauer (09/2022-07/2025), Dr. Laiane Oliveira (01/2025-09/2025, exchange Post-doc), Dr. Marta Redrado (09/2023-09/2015), Dr. Axia Marlin (04/2025-12/2025).
- 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, exchange PhD student), Dr. Jeannine Hess (01/2012-06/2016), Lauren Fernandez Vega (01/2019-07/2019, exchange PhD student), Dr. Johannes Karges (11/2016-11/2019), Dr. Franz Heinemann (11/2016-11/2019), Dr. Anna Notaro (01/2017-11/2019), Dr. Patrick Felder (02/2017-01/2020), Dr. Marta Jakubaszek (04/2017-03/2020), Dr. Marie Flamme (10/2017-10/2020), Dr. Nancy Soliman (10/2017-10/2020), Maria José Silva (09/2020-04/2021, exchange PhD student), Asma Mani (09/2020-02/2021, exchange PhD student), Dr. Lin Yan (10/2018-10/2021), Siqi Zhang (01/2021-01/2022, exchange PhD student), Maria Dalla Pozza (09/2020-09/2023), Lisa Gourdon (10/2020-10/2023), Germain Niogret (10/2020-10/2023), Ivanna Amarsy (10/2020-10/2023), Youchao Wang (11/2020-10/2023), Yiyi Zhang (10/2021-10/2024), Francisca Figueiredo (10/2021-10/2024), Marie Huynh (11/2021-11/2024), Diana Melis (01/2021-10/2024), Antonio Caian de Sousa Silva Rodrigues (01/2025-08/2025, exchange PhD student), Yiyi Zhang (01/2025-10/2025, exchange PhD student), Zhimei Xiao (10/2022-10/2025), Shuai Zhong

(10/2022-10/2025), Yiqian Wang (10/2022-10/2025), Kirill Kuznetsov (10/2022-10/2025).

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), James Ng (05/2019-12/2019), Lisa Gourdon (02/2020-07/2020), Germain Niogret (02/2020-07/2020), Yue Xiao (01/2021-07/2021), Niovi-Georgia Voutsara (01/2021-07/2021), Francisca Figueiredo (01/2021-07/2021), Marie Huynh (01/2021-07/2021), Camille Evin (09/2021-03/2022), Manon Fleszar (02/2022-05/2022), Alexander Peeters (02/2022-07/2022), Lara Wild (09/2022-02/2023), Lorenzo Verderi (02/2023-07/2023), Appolonia Kalamatianou (02/2023-07/2023), Inès Vanlaeys (02/2024-07/2024), Basile Parmelli (04/2024-09/2024), Camille Baland (09/2024-02/2025), Anzo Massiot (09/2024-02/2025), Sophia Outnah (02/2025-08/2025).

CURRENT COLLABORATIONS (IN ALPHABETICAL ORDER)

- Prof. Gonçalo Bernardes, University of Cambridge, UK. *Bioconjugates of Metal Complexes*
- Dr. Olivier Blacque, University of Zurich, Switzerland. *X-ray Crystallography*.
- Prof. Christine Cardin, University of Reading, UK. *X-ray Crystallography*.
- Prof. Hui Chao, Sun Yat-Sen University, China. *2P-PDT*.
- Dr. Ilaria Ciofini, Chimie ParisTech, PSL University, France. *DFT Calculations*.
- Prof. Hongjie Dai, Stanford University/University of Hong Kong, USA. *Imaging*.
- Dr. Didier Decaudin, Institut Curie, France. *In vivo Experiments*.
- Dr. Bich-Thuy Doan, Chimie ParisTech, PSL University, France. *Biological Studies*.10
- Prof. Dinorah Gambino, Republic University of Montevideo, Uruguay. *Biological Evaluation of Metal Complexes on Parasites*.
- Dr. Philippe Goldner, Chimie ParisTech, PSL University, France. *Photophysical Studies*.
- Prof. Pedro Gois, University of Lisbon, Portugal. *Bioconjugates of Metal Complexes*.
- 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*.
- Patrice Le Pape, University of Nantes, France, *Biological Evaluation of Metal Complexes on Fungi*.
- Prof. Vicente Marchan, University of Barcelona, Switzerland. *Synthesis of PDT Photosensitizers*.
- Prof. Fabio Marchetti, University of Pisa, Italy. *Synthesis of Anticancer Complexes*.
- Dr. Nathalie Mignet, Université de Paris-Cité, France. *Biological Studies*.
- Prof. Thomas Mindt, Medical University Vienna, Austria. *Synthesis of new chelators for ⁸⁹Zr labelling*.
- Prof. Adam Renslo, UC San Francisco, USA. Prof. Vicente Marchan, University of Barcelona, Switzerland. *Synthesis of PDT Photosensitizers*.

- Prof. Judy Sakanari, UC San Francisco, USA. *Biological Evaluation of Metal Complexes on Parasites*.
- Prof. Christophe Thomas, Chimie ParisTech, France. *Drug Encapsulation*.

INVITED TALKS

71 plenary/keynote speaker invitations, 101 invited talks at universities/Companies and 36 offered talks at conferences.

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

- 1) “*Metal-based Photosensitizers for Anticancer Photodynamic Therapy*”, New trends in Organic Synthesis, Milan (Italy), November 2026.
- 2) “*Metal Complexes for Medicinal Applications*”, ItaBIC, Napoli (Italy), September 2026.
- 3) “*Metal Complexes for Medicinal Applications*”, Swiss Chemical Society Meeting, Berne (Switzerland), August 2026.
- 4) “*Metal Complexes for Medicinal Applications*”, EuroBIC, Groningen (Netherlands), July 2026.
- 5) “*New Therapeutic Approach for the Treatment of High-Grade Epithelial Ovarian Cancers*”, International Course on Gynecological Cancers: From Clinical Practice to Biology, Paris (France), June 2026.
- 6) “*Metal Complexes as Diagnostics and Therapeutics*”, RSC Chemical Science Symposium, London (UK), November 2025.
- 7) “*Radiometals in Nuclear Medicine*”, EUChemS, Berlin (Germany), October 2025.
- 8) “*Metal Complexes in Medicinal Chemistry*”, EUChemS, Belgrade (Serbia), September 2025.
- 9) “*Metal-Based Photosensitizers for Anticancer Photodynamic Therapy*”, FASEB, Scottsdale (Arizona), July 2025.
- 10) “*Organometallic Chemistry for Medicinal Applications*”, EUCOMC, Berne (Switzerland), July 2025.
- 11) “*Metal-Based Photosensitizers for Photodynamic Therapy Applications*”, ISABC, Upsalla (Sweden), June 2025.
- 12) “*Metal-Based Photosensitizers for Photodynamic Therapy Applications*”, Conférence Studium, Orléans (France), May 2025.
- 13) “*Towards Selective Delivery of Novel Metal-Based Photosensitizers for Anticancer Photodynamic Therapy*”, Symposium on Metal-Based Anticancer Drugs: New Perspectives, Vienna (Austria), April 2025.
- 14) “*Metal Complexes in Medicinal Chemistry*”, ITN Isobiotics Symposium, Lisbon (Portugal), January 2025.
- 15) “*First-Row Transition Metal Complexes as Anticancer Agents*”, Mix and Match Conference, Science and Study Center Raitenhaslach (Germany), October 2024.
- 16) “*First-Row Transition Metal Complexes as Anticancer Agents*”, International Conference on Coordination Chemistry (ICCC), Fort Collins (USA), August 2024.
- 17) “*Metal Complexes as Photosensitizers for Photodynamic Therapy*”, Photocat24, Padova (Italy), May 2024.
- 18) “*Organometallic Complexes as Antifungal and Antiparasitic Drug Candidates*”, French Antiparasitic and Antifungal Consortium Conference, Toulouse (France), May 2024.
- 19) “*Theranostics: A Potential Example with the Site-Specific $^{188}\text{Re(V)}$ -Radiolabelling of a Nanobody® using bioorthogonal Click Chemistry for Targeted Radionuclide Therapy*”, 17th

PET/CT Symposium in Oncology and 1st CancerThera Congress, Campinas, (Brazil), May 2024.

- 20) *"Development of Bifunctional Chelating Agents"*, 17th PET/CT Symposium in Oncology and 1st CancerThera Congress, Campinas, (Brazil), May 2024.
- 21) *"Coordination Chemistry for Medicinal Applications"*, French-Italian Coordination Chemistry days, Strasbourg (France), January 2024.
- 22) *"Rationally Designed Long-Wavelength Absorbing Metal Complexes as Photosensitizers for Photodynamic Therapy"*, 13th IUPAC's International Symposium on Bioorganic Chemistry (ISBOC-13), Singapore (Singapore), December 2023.
- 23) *"Metal Complexes as Diagnostics and Therapeutics"*, 19th Asian Chemical Congress, Istanbul (Turkey), July 2023.
- 24) *"Metal Complexes as Diagnostics and Therapeutics"*, Singapore-Paris Chemical Biology, Paris (France), July 2023.
- 25) *"Metal Complexes as Diagnostics and Therapeutics"*, PSL Soft and Living Matter Days, Paris (France), June 2023.
- 26) *"Metal Complexes as Diagnostics and Therapeutics"*, XIII Spanish Bioinorganic Scientific Meeting - BioGranada 2023, Granada (Spain), June 2023.
- 27) *"Metal Complexes as Diagnostics and Therapeutics"*, 46th Annual Meeting of the Brazilian Chemical Society, Águas de Lindóia (Brazil), May 2023.
- 28) *"Metal Complexes as Diagnostics and Therapeutics"*, Latin American Meeting on Biological Inorganic Chemistry, VIII LABIC, Viña del Mar (Chile), April 2023.
- 29) *"Metal Complexes as Diagnostics and Therapeutics"*, 2nd International Forum on Medicinal Chemistry of Natural Active Ligand Metal-Based Drugs, Guilin (China), August 2022.
- 30) *"Metal Complexes as Diagnostics and Therapeutics"*, XLVIII National Congress of Inorganic Chemistry of Italian Chemical Society, Pisa (Italy), September 2022.
- 31) *"Towards Selective Delivery of Novel Metal-based Photosensitizers for Anticancer Photodynamic Therapy"*, 8th EuChemS Chemistry Congress (ECC8), Lisbon (Portugal), August 2022.
- 32) *"Metal Complexes as Diagnostics and Therapeutics"*, 2nd International Forum on Medicinal Chemistry of Natural Active Ligand Metal-Based Drugs, Guilin (China), August 2022.
- 33) *"Organometallic Compounds against Fungal Infections"*, International Symposium on Bioorganometallic Chemistry (ISBOMC 2022), Paris (France), July 2022.
- 34) *"Towards Specific Delivery and Controlled Release of Metal Complexes in Tumours"*, Gordon Conference on Metals in Medicine, New Hampshire (US), June 2022.
- 35) *"Organometallic Compounds against Fungal Infections"*, Symposium: Metal-Based Complexes for Biomedical Applications, Virtual ChemBioChem Conference, April 2022.
- 36) *"Organometallic Compounds against Fungal Infections"*, ACS Conference, San Diego (USA), March 2022.
- 37) *"Complexes métalliques comme agents pour le diagnostic et la thérapie"*, Colloque de Chimie Bioinorganique, Collège de France, Paris, Mars 2022.
- 38) *"Metal Complexes and Light: a Great Combination for Medicinal Chemistry"*, Virtual Pacifichem, Hawaii (USA), December 2021.
- 39) *"Metal Complexes as Diagnostics and Therapeutics"*, Virtual ENAQUI 7 Conference, November 2021.
- 40) *"Metal Complexes in Medicinal Chemistry"*, FrenchBIC Conference, Obernai (France), October 2021.
- 41) *"Metal Complexes in Medicinal Chemistry"*, Virtual GP2A Conference, August 2021.
- 42) *"Metal Complexes as Photosensitizers for Photodynamic Therapy"*, Institut Paris Saclay Innovation Thérapeutique, Virtual Polythea Conference, May 2021.

- 43) *"Metal Complexes in Medicinal Chemistry"*, Virtual RICT Conference, August 2021.
- 44) *"Metal Complexes as Photosensitizers for Photodynamic Therapy"*, Institut Paris Saclay Innovation Thérapeutique, Châtenay-Malabry (France), May 2021.
- 45) *"Metal Complexes as Diagnostics and Therapeutics"*, QBI/PSL Virtual Symposium, San Francisco (USA), December 2020.
- 46) *"Metal Complexes and Medicinal Chemistry: what a Combination!"*, Online Photochemistry School of the Spanish Association of Bioinorganic Chemistry, San Sebastian (Spain), September 2020.
- 47) *"Metal Complexes in Medicinal Chemistry"*, ChemBioChem Virtual Symposium on Metals in Biology, Weinheim (India), July 2020.
- 48) *"Metal Complexes in Medicinal Chemistry"*, Indo-UK Virtual Conference on 'Current innovations and the future of therapeutic developments', Vellore (India), June 2020.
- 49) *"Metal Complexes in Medicinal Chemistry"*, Royal Australian Chemical Institute (RACI) Conference, Wollongong (Australia), December 2019.
- 50) *"Metal Complexes as Diagnostics and Therapeutics"*, Workshop on Imaging of diagnostic and Therapeutic Biomarkers in Oncology, Vannes (France), September 2019.
- 51) *"Organometallic Compounds against Human and Livestock Animal Parasitic Diseases"*, International Symposium on Bioorganometallic Chemistry (ISBOMC 2019), York (UK), August 2019.
- 52) *"Metal Complexes in Medicinal Chemistry"*, 4th Meeting of the Lisbon University Chemistry College, Lisbon (Portugal), July 2019.
- 53) *"Organometallic Compounds against Parasitic Diseases"*, Nara International Conference on Applied Bioinorganic Chemistry (NICAB), Nara Women's University (Japan), June 2019.
- 54) *"Towards Targeted Photodynamic Therapy with Metal-based Photosensitizers"*, 15th International Symposium on Applied Bioinorganic Chemistry, Nara (Japan), June 2019.
- 55) *"Targeted Photodynamic Therapy with Metal-based Photosensitizers"*, PDT and PD Update Conference, Kochel am See (Germany), September 2018.
- 56) *"Organometallic Compounds as Antiparasitical and Antifungal Drug Candidates"*, XXXV GEQO Congress Organometallic Chemistry Group Conference, Zaragoza (Spain), August 2018.
- 57) *"Metal Complexes and Medicinal Chemistry: what a Combination!"*, EuroBIC Conference, Birmingham (UK), August 2018.
- 58) *"Organometallic Compounds against Human and Livestock Animal Parasitic Diseases"*, COST Meeting Chemotherapy Towards Diseases Caused by Endoparasites, Lausanne (Switzerland), October 2017.
- 59) *"Metal Complexes as Photosensitizers in Photodynamic Therapy"*, SolChem Conference 2017, Ulm (Germany), October 2017.
- 60) *"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.
- 61) *"Organometallic Compounds against Human and Livestock Animal Parasitic Diseases"*, International Symposium on Bioorganometallic Chemistry (ISBOMC 2016), Moscow (Russia), September 2016.
- 62) *"Bioorganometallic Chemistry to fight Schistosomiasis"*, 27th International Conference on Organometallic Chemistry (ICOMC 2016), Melbourne (Australia), July 2016.
- 63) *"Metal Complexes as Phototoxic Anticancer Agents"*, Gordon Conference on Metals in Medicine, New Hampshire (US), June 2016.

- 64) *"Metal Complexes in Medicinal Chemistry"*, Summer School in Supramolecular Chemistry, Borovets (Bulgaria), June 2016.
- 65) *"Towards the Selective Photo-Release of Organometallic-based Enzyme Inhibitors in Living Cells"*, BioChem Forum, Strasbourg (France), June 2016.
- 66) *"Towards Organometallic Antischistosomal Candidates"*, 21th European Association for Chemical and Molecular Sciences Conference on Organometallic Chemistry (EuCOMC XXI), Bratislava (Slovakia), July 2015.
- 67) *"New Perspectives in the use of Metal Complexes in Medicinal Chemistry"*, Swiss Chemical Society Meeting, Basel (Switzerland), April 2015.
- 68) *"Novel Opportunities in PDT using Metal Complexes"*, The International Congress on Photodynamic Applications, Dundee (Scotland), May 2014.
- 69) *"Metal Complexes in Photodynamic Therapy"*, 5th International Meeting of the European Platform for Photodynamic Medicine, Ustron (Poland), November 2013.
- 70) *"Novel Concepts in Medicinal Inorganic Chemistry"*, Young Faculty Meeting, Bern (Switzerland), June 2012.
- 71) *"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 for Medicinal Applications"*, Novartis (Basel), August 2026.
- 2) *"Metal Complexes in Medicinal Chemistry"*, Beijing University of Chemical Technology (China), May 2026.
- 3) *"Metal Complexes in Medicinal Chemistry"*, ETHZ (Switzerland), May 2026.
- 4) *"Metal Complexes in Medicinal Chemistry"*, University of Milan (Italy), April 2026.
- 5) *"Metal Complexes in Medicinal Chemistry"*, University of Zurich (Switzerland), February 2026.
- 6) *"Metal Complexes in Medicinal Chemistry"*, Autonomous University of Madrid (Spain), February 2026.
- 7) *"Metal Complexes in Medicinal Chemistry"*, Seqens (France), January 2026.
- 8) *"Metal Complexes in Medicinal Chemistry"*, University of Hong Kong (Hong Kong), December 2025.
- 9) *"Metal Complexes in Medicinal Chemistry"*, Sun Yat-Sen University (China), December 2025.
- 10) *"Metal Complexes in Medicinal Chemistry"*, City University of Hong Kong (Hong Kong), November 2025.
- 11) *"Metal Complexes in Medicinal Chemistry"*, University of Macau (Macau), November 2025.
- 12) *"Metal Complexes in Medicinal Chemistry"*, Imperial College (UK), November 2025.
- 13) *"Metal Complexes in Medicinal Chemistry"*, University of Ljubljana (Slovenia), May 2025.
- 14) *"Metal Complexes in Medicinal Chemistry"*, Sequens (France), April 2025.
- 15) *"Metal-based Photosensitizers for Anticancer Photodynamic Therapy"*, University of Palermo (Italy), March 2025.
- 16) *"Organometallic Complexes as Anti-Infective Agents"*, University of Padova (Italy), March 2025.
- 17) *"Metal Complexes in Medicinal Chemistry"*, University of Bologna (Italy), March 2025.

- 18) *"Towards Selective Delivery of Novel Metal-based Photosensitizers for Anticancer Photodynamic Therapy"*, University of São Paulo- Ribeirão Preto, Ribeirão Preto (Brazil), November 2024.
- 19) *"Metal Complexes as Diagnostics and Therapeutics"*, University of Lisbon, Lisbon (Portugal), June 2024.
- 20) *"Metal Complexes as Diagnostics and Therapeutics"*, Fudan University, Shanghai (China), April 2024.
- 21) *"Metal Complexes as Diagnostics and Therapeutics"*, Center for Molecular Biophysics (CBM), Orléans (France), January 2024.
- 22) *"Metal Complexes as Diagnostics and Therapeutics"*, Nervamiums (Italy), November 2023.
- 23) *"Metal Complexes as Diagnostics and Therapeutics"*, Federal University Juiz de Fora (Brazil), May 2023.
- 24) *"Metal Complexes as Diagnostics and Therapeutics"*, Pontefical Catholic University of Rio de Janeiro (Brazil), May 2023.
- 25) *"Metal Complexes as Diagnostics and Therapeutics"*, University of Strasbourg (France), March 2023.
- 26) *"Metal Complexes as Diagnostics and Therapeutics"*, CEA (France), February 2023.
- 27) *"Metal Complexes as Diagnostics and Therapeutics"*, University of Nantes (France), January 2023.
- 28) *"Metal Complexes as Diagnostics and Therapeutics"*, University of Edinburgh (UK), August 2022.
- 29) *"Metal Complexes as Diagnostics and Therapeutics"*, University of Cambridge (UK), June 2022.
- 30) *"Metal Complexes as Diagnostics and Therapeutics"*, University of Peking (China), April 2022.
- 31) *"Metal Complexes as Diagnostics and Therapeutics"*, University of Paris-Saclay (France), November 2021.
- 32) *"Metal Complexes as Diagnostics and Therapeutics"*, University of Orléans (France), August 2021.
- 33) *"Metal Complexes as Photosensitizers for Photodynamic Therapy"*, University of Lisbon (Portugal), February 2021 (Virtual Talk).
- 34) *"Metal Complexes as Diagnostics and Therapeutics"*, Collège de France (France), January 2021 (Virtual Talk).
- 35) *"Metal Complexes as Diagnostics and Therapeutics"*, University of Oxford (UK), November 2020 (Virtual Talk).
- 36) *"Metal Complexes as Diagnostics and Therapeutics"*, University of Alabama (USA), November 2020 (Virtual Talk).
- 37) *"Metal Complexes as Diagnostics and Therapeutics"*, University of Ljubjana (Slovenia), November 2020 (Virtual Talk).
- 38) *"Metal Complexes as Diagnostics and Therapeutics"*, Warwick University (UK), November 2020 (Virtual Talk).
- 39) *"Metal Complexes as Diagnostics and Therapeutics"*, University of Edinburgh (UK), October 2020 (Virtual Talk).
- 40) *"Metal Complexes as Diagnostics and Therapeutics"*, University of Connecticut (USA), October 2020 (Virtual Talk).
- 41) *"Metal Complexes as Diagnostics and Therapeutics"*, University of Vienna (Austria), October 2020 (Virtual Talk).
- 42) *"Metal Complexes in Medicinal Chemistry"*, Macquarie University (Australia), December 2019.

- 43) *"Metal Complexes in Medicinal Chemistry"*, University of Hong Kong (Hong Kong), December 2019.
- 44) *"Metal Complexes in Medicinal Chemistry"*, University of Brest (France), December 2019.
- 45) *"Metal Complexes in Medicinal Chemistry"*, University of Barcelona (Spain), October 2019.
- 46) *"Metal Complexes in Medicinal Chemistry"*, McGill University (Canada), May 2019.
- 47) *"Metal Complexes in Medicinal Chemistry"*, INRS-Institut Armand Frappier (Canada), May 2019.
- 48) *"Metal Complexes in Medicinal Chemistry"*, University of Montpellier (France), March 2019.
- 49) *"Metal Complexes in Medicinal Chemistry"*, Descartes University (France), March 2019.
- 50) *"Metal Complexes in Medicinal Chemistry"*, Newcastle University (UK), March 2019.
- 51) *"Metal Complexes in Medicinal Chemistry"*, ITQB Lisbon (Portugal), February 2019.
- 52) *"Metal Complexes in Medicinal Chemistry"*, University of Durham (UK), February 2019.
- 53) *"Metal Complexes in Medicinal Chemistry"*, King's College (UK), November 2018.
- 54) *"Metal Complexes in Medicinal Chemistry"*, University of Tübingen (Germany), October 2018.
- 55) *"Metal Complexes in Medicinal Chemistry"*, University of Bretagne Occidentale (France), October 2018.
- 56) *"Metal Complexes in Medicine"*, ICSN, University Paris-Saclay (France), June 2018.
- 57) *"Metal Complexes in Medicine"*, New York University (USA), May 2018.
- 58) *"Metal Complexes in Medicine"*, University of Burgos (Spain), April 2018.
- 59) *"Metal Complexes in Medicine"*, CEA, University Paris-Saclay (France), April 2018.
- 60) *"Metal Complexes in Medicinal Chemistry"*, Institut Pasteur (France), April 2018.
- 61) *"Metal Complexes in Medicinal Chemistry"*, Laboratoire de Chimie de Coordination de Toulouse (France), February 2018.
- 62) *"Metal Complexes in Medicinal Chemistry"*, Ecole Normale Supérieure de Lyon (France), February 2018.
- 63) *"Metal Complexes as Photosensitizers in Photodynamic Therapy"*, University of Reading (UK), July 2017.
- 64) *"Metal Compounds in Medicinal Chemistry"*, University of Sussex (UK), April 2017.
- 65) *"Metal Complexes in Medicinal Chemistry"*, University of Zurich (Switzerland), *Ernest Th. Jucker Prize Ceremony*, April 2017.
- 66) *"Metal Complexes in Medicinal Chemistry"*, Paris Descartes University (France), February 2017.
- 67) *"Metal Complexes in Medicinal Chemistry"*, Chimie ParisTech (France), December 2016.
- 68) *"Combination of Light and Metal Complexes to kill Cancer Cells and Bacteria"*, University of Sydney (Australia), July 2016.
- 69) *"Lightening up Metal Complexes to kill Cancer Cells and Bacteria!"*, Monash Institute of Pharmaceutical Sciences (Australia), July 2016.
- 70) *"Metal Complexes, Light, Anticancer Action!"*, National University of Singapore (Singapore), July 2016.
- 71) *"Combination of Light and Metal Complexes to fight Cancer!"*, Nanyang Technological University (Singapore), July 2016.
- 72) *"Lightening up Metal Complexes to kill Cancer Cells and Bacteria!"*, University of Galway (Ireland), April 2016.
- 73) *"New Insights in the Use of Metal Complexes in Medicinal Chemistry"*, University Pierre et Marie Curie, (France), April 2016.

- 74) *"Lightening up Metal Complexes to kill Cancer Cells and Bacteria!"*, BASF, Basel (Switzerland), January 2016.
- 75) *"Metal Complexes, Light, Anticancer Action!"*, University of Fribourg, (Switzerland), October 2015.
- 76) *"Metal Complexes, Light, Anticancer Action!"*, Swiss Federal Institute of Technology Zurich, (Switzerland), September 2015.
- 77) *"Metals and Medicine: a Successful Combination"*, University of Basel, (Switzerland), August 2015.
- 78) *"New Perspectives in the Use of Metal Complexes in Medicinal Chemistry"*, Helmholtz-Zentrum Dresden-Rossendorf (Germany), July 2015.
- 79) *"Towards the Use of Ru(II) and Re(I) Complexes as Anticancer Agents"*, Sun Yat-Sen University (China), January 2015.
- 80) *"Metal Complexes, Light, Anticancer Action!"*, University of Hamburg (Germany), December 2015.
- 81) *"Towards the Use of Ru(II) and Re(I) Complexes as Anticancer Agents"*, University of Belgrade (Serbia), September 2014.
- 82) *"Novel Strategies in Photodynamic Therapy using Metal Complexes"*, University of Macau (Macau), May 2014.
- 83) *"Phototherapy with Metal Complexes"*, University of Leiden (the Netherlands), March 2014
- 84) *"Metal Complexes in Medicinal Chemistry"*, Institute of Anatomy, University of Zurich (Switzerland), December 2013.
- 85) *"New Progresses in the Development of Antiparasitic Drug Candidates"*, Ecole Nationale Supérieure de Chimie (France), September 2013.
- 86) *"Novel Opportunities in Chemical Biology and Nanoscience with Metal-Containing Peptide Nucleic Acids"*, University of Wollongong (Australia), January 2013.
- 87) *"In vitro and in vivo Investigations of novel Metal-Based Antiparasitic and Anticancer Drug Candidates"*, Monash University (Australia), February 2013.
- 88) *"Towards Novel Metal-Based Antiparasitica and Anticancer Drug Candidates"*, University of Sydney (Australia), January 2013.
- 89) *"In Vitro and in Vivo Evaluation of Metal-Based Anthelmintic and Anticancer Drug Candidates"*, University of Melbourne (Australia), January 2013.
- 90) *"Preparation and Biological Evaluation of Novel Anthelmintic and Anticancer Metal-Based Candidates"*, Ruhr-University Bochum (Germany), November 2012.
- 91) *"Mitochondria-mediated Apoptosis as Mode of Action for a Novel Ru(II) Complex"*, University of Lille 1 (France), September 2012.
- 92) *"Metal Complexes for Medicinal Applications"*, Helmholtz-Zentrum Dresden-Rossendorf (Germany), August 2012.
- 93) *"Novel Anticancer Ru(II) and Re(I) Agents: Towards the Elucidation of their Mechanism of Action"*, University of Auckland (New Zealand), January 2012.
- 94) *"A Journey through the Preparation and Biological Applications of Metal-Containing Peptide Nucleic Acids"*, University of Birmingham (England), June 2011.
- 95) *"A Journey through the Preparation and Biological Applications of Metal-Containing Peptide Nucleic Acids"*, Technical University Braunschweig (Germany), December 2010.
- 96) *"Biological Applications of Metal-Containing Peptide Nucleic Acids"*, Helmholtz-Zentrum Dresden-Rossendorf (Germany), October 2009.
- 97) *"Metal Complexes containing Peptide Nucleic Acids for Medicinal and Biosensing Applications"*, University of Neuchâtel (Switzerland), October 2008.
- 98) *"Metal Complexes containing Peptide Nucleic Acids for Medicinal and Biosensing Applications"*, University of Zurich (Switzerland), October 2008.

- 99) *"Modified Peptide Nucleic Acids for Medicinal Applications"*, Helmholtz-Zentrum Dresden-Rossendorf (Germany), November 2007.
- 100) *"Use of Ferrocenyl Complexes and Peptide Nucleic Acids for Different Biological Applications"*, Helmholtz-Zentrum Dresden-Rossendorf (Germany), October 2006.
- 101) *"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) *"Towards Selective Delivery of Novel Metal-based Photosensitizers for Anticancer Photodynamic Therapy"*, Photodynamic Therapy & Photodiagnosis (PDT PDD) Symposium, Nancy (France), October 2022.
- 2) *"Metal Complexes as Diagnostics and Therapeutics"*, Anticancer Metal Drugs Conference, Jerusalem (Israel), June 2022.
- 3) *"Metal Complexes as Diagnostics and Therapeutics"*, Winter-in-Person Symposium on Organic Chemistry (WIPOS), Hawaii (USA), December 2021.
- 4) *"Towards Selective Delivery of Novel Metal-based Photosensitizers for Anticancer Photodynamic Therapy"*, 3^{ème} Journée Française sur la Thérapie Photodynamique, Toulouse (France), November 2021.
- 5) *"Long-Wavelength Absorbing Ru(II) Polypyridyl Complexes as Photosensitizers for Photodynamic Therapy"*, Virtual PTD-PDD Congress, November 2020.
- 6) *"Complexes de Ruthénium comme Photosensibilisateurs pour la Thérapie Photodynamique"*, 2^{ème} Journée Française sur la Thérapie Photodynamique, Lille (France), November 2019.
- 7) *"Metallocene-containing Complexes as Antiparasitic and Antifungal Drug Candidates"*, 9^{ème} Journée du Consortium anti-Parasitaire et anti-Fongique (CaPF), Rouen (France), March 2019.
- 8) *"Metal Complexes and Medicinal Chemistry: what a Combination"*, 1st Singapore-Paris Chemical Biology Symposium, Singapore (Singapore), March 2019.
- 9) *"Metallocene-containing Complexes as Antiparasitic and Antifungal Drug Candidates"*, 9th Asian Biological Inorganic Chemistry (AsBIC) Conference, Singapore (Singapore), December 2018.
- 10) *"Organometallic Compounds as Antiparasitical and Antifungal Drug Candidates"*, 8^{ème} Journée du Consortium anti-Parasitaire et anti-Fongique (CaPF), Lyon (France), March 2018.
- 11) *"Metal Complexes as Photosensitizers in Photodynamic Therapy"*, 22nd International Symposium on Photochemistry and Photophysics of Coordination Compounds, Oxford (UK), July 2017.
- 12) *"Metal Complexes as Photosensitizers in Photodynamic Therapy"*, 14th International Symposium on Applied Bioinorganic Chemistry, Toulouse (France), June 2017.
- 13) *"Organometallic Compounds against Human and Livestock Animal Parasitic Diseases"*, FrenchBIC, Toulouse (France), June 2017.
- 14) *"Ru(II) Polypyridyl Complexes in (2-Photon Excitation) Photodynamic Therapy"*, Excited States in Complex Systems, Paris (France), November 2016.
- 15) *"Ru(II) Polypyridyl Complexes as Photosensitizers in (Two-Photon Excitation) Photodynamic Therapy"*, Photodynamic Therapy & Photodiagnosis (PDT PDD) Symposium, Nancy (France), October 2016.
- 16) *"Selective Photo-release of Organometallic-containing Enzyme Inhibitors"*, 4th Whole Action Meeting of the COST Action CM1105, Palma de Mallorca (Spain), April 2016.

- 17) *"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.
- 18) *"Evaluation of novel Ru(II) Polypyridyl Complexes as Photosensitizers in Photodynamic Therapy"*, COST Meeting, Belgrade (Serbia), September 2015.
- 19) *"Ru(II) Polypyridyl Complexes as potent Photosensitizers in Photodynamic Therapy"*, ACS Conference – Fall Meeting, Boston (USA), September 2015.
- 20) *"Ru(II) Complexes as potent Photosensitizers in Photodynamic Therapy"*, International Photodynamic Association Conference, Rio de Janeiro (Brazil), May 2015.
- 21) *"Phototoxic Metal Bioconjugates with a Dual Mode of Action"*, COST Meeting, Zurich (Switzerland), August 2014.
- 22) *"Organometallic Compounds to fight Schistosomiasis"*, International Symposium on Bioorganometallic Chemistry, Vienna (Austria), July 2014.
- 23) *"Towards Novel the Use of Re(I) and Ru(II) in Photodynamic Therapy"*, The International Congress on Photodynamic Applications, Dundee (Scotland), May 2014.
- 24) *"Photodelivery of Cytotoxic Metal Complexes in Living Cells"*, COST Meeting, Madrid (Spain), April 2014.
- 25) *"Towards the Use of Re^I and Ru^{II} Complexes as Photosensitizers in Photodynamic Therapy"*, Swiss-Kyoto Symposium, Zurich (Switzerland), November 2013.
- 26) *"Towards Novel the Use of Re(I) and Ru(II) in Photodynamic Therapy"*, WHAM Meeting, Barcelona (Spain), September 2013.
- 27) *"Towards Novel Organometallic-Based Anthelmintic Drug Candidates"*, International Conference on Biological Inorganic Chemistry, Grenoble (France), July 2013.
- 28) *"Towards the Elucidation of the Mechanism of Action of an inert Ruthenium Anticancer Drug Candidate"*, ACS Conference – Spring Meeting, New Orleans (USA), April 2013.
- 29) *"Towards Novel Metal-Based Anthelmintic and Anticancer Drug Candidates"*, COST Action Meeting CM 1105, Groningen (The Netherlands), February 2013.
- 30) *"Novel Anticancer Ru(II) agents: Towards the Elucidation of their Mechanism of Action"*, WHAM Meeting, Granada (Spain), September 2012.
- 31) *"(Multi)-Ferrocene-Containing Peptide Nucleic Acid Bioconjugates"*, Ferrocene Colloquium, Braunschweig (Germany), February 2012.
- 32) *"Preparation and Biological Applications of novel Organometallic-Containing Peptide Nucleic Acids"*, International Conference on Biological Inorganic Chemistry, Vancouver (Canada), August 2011.
- 33) *"Multi-Organometallic-Containing PNAs: Preparation and Biological Applications"*, International Symposium on Bioorganometallic Chemistry, Bochum (Germany), July 2010.
- 34) *"Ferrocenyl Metal Complexes for Electrochemical Detection of DNA Nucleosides and Anions"*, Ferrocene Colloquium, Prague (Czech Republic), February 2008.
- 35) *"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.
- 36) *"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

- Royal Society of Chemistry (RSC)
- American Chemical Society.
- European Society for Photobiology

- Society of Biological Inorganic Chemistry.
- Société de Chimie Thérapeutique de France.
- Société Francophone de Photonique Médicale (SFPMed)
- Société Chimique de France.
- Swiss Chemical Society.

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)