

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

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## PERSONAL DETAILS

|                                |  |
|--------------------------------|--|
| <b>Date and Place of Birth</b> | 16 / 12 / 1976, Neuchâtel, Switzerland.                    |
| <b>Nationality</b>             | Swiss.   |
| <b>Marital Status</b>          | Married.   |
| <b>Languages</b>               | French (mother tongue), English (fluent), German (fluent). |
| <b>Personal Interests</b>      | Long-distance running, hiking, travelling, snowboarding.   |

## PROFESSIONAL POSITIONS

### a) Faculty

- Since 2011** *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

- 2015 **ERC Consolidator Grant** (2'000'000 €).
- 2015 **Werner Prize** from the Swiss Chemical Society for outstanding independent chemical research.
- 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

- 2015-2016 Extension of the **UBS Promedica Stiftung Research Grant** for the Project "Metallocenyl Antifungal Agents" (CHF 120'000.-).
- 2015-2018 **Swiss National Science Foundation Research Grant** for the Project "Novel Multidentate Bifunctional Chelating Agents for the Development of Zirconium-89 Based Molecular Imaging Probes" (CHF 350'000.-).
- 2014-2015 **UBS Promedica Stiftung Research Grant** for the Project "Metallocenyl 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.-).

## TEACHING AND STUDENT EVALUATION

- 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 2<sup>nd</sup> 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.

## PUBLICATIONS

Author of 1 book, 5 book chapters, 12 reviews, >70 articles, 8 patent applications and 6 patents ([www.gassergroup.com](http://www.gassergroup.com) for a full list). Current *h* index: 24. Total Citations: > 2200.

### 5 Key Publications

- Molecular and Cellular Characterization of the Biological Effects of Ruthenium(II) Complexes Incorporating 2-Pyridyl-2-Pyrimidine-4-Carboxylic Acid**  
V. Pierroz, T. Joshi, A. Leonidova, C. Mari, J. Schur, I. Ott, L. Spiccia, S. Ferrari and **G. Gasser**,\* *J. Am. Chem. Soc.* **2012**, *134*, 20376-20387.
- A Bis(dipyridophenazine)(2-(2'-pyridyl)pyrimidine-4-carboxylic acid)ruthenium(II) Complex with Anticancer Action upon Photodeprotection**  
T. Joshi, V. Pierroz, C. Mari, L. Gemperle, S. Ferrari and **G. Gasser**,\* *Angew. Chem. Int. Ed.* **2014**, *53*, 2960-2963.
- Synthesis of Stable Peptide Nucleic Acid-Modified Gold Nanoparticles and their Assembly onto Gold Surfaces**  
P. Anstaett, Y. Zheng, T. Thai, A.M. Funston, U. Bach and **G. Gasser**,\* *Angew. Chem. Int. Ed.* **2013**, *52*, 4217-4220.
- Photo-Induced Uncaging of a Specific Re(I) Organometallic Complex in Living Cells**  
A. Leonidova, V. Pierroz, R. Rubbiani, Y. Lan, A.G. Schmitz, A. Kaech, R.K.O. Sigel, S. Ferrari and **G. Gasser**,\* *Chem. Sci.* **2014**, *5*, 4044-4056. **OPEN ACCESS**
- 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.  
**OPEN ACCESS**

## SCIENTIFIC SERVICES AND ORGANISATION

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

## RESEARCH INTERESTS

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

## RESEARCH GROUP (CURRENT MEMBERS)

- Post-docs:** Dr. Riccardo Rubbiani (04/2013-current), Dr. Phuc Ung (04/2015-current), Dr. Cristina Mari (07/2015-current), Dr. Malay Patra (12/2015-current).
- PhD Students:** Jeannine Hess (01/2012-current), Manon Briand (10/2015-current).
- Master Students:** Mariangela Campo (09/2015-current), Faustine d'Orchymont (01/2015-current), Franz Heinemann (01/2015-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).

**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).

**Master 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).

## COLLABORATIONS (IN ALPHABETICAL ORDER)

- Prof. Roger Alberto, University of Zurich, Switzerland. *Biological Evaluation of Metal Complexes.*
- Prof. Enzo Alessio, University of Trieste, Italy. *Synthesis of PDT Photosensitisers.*
- Prof. Udo Bach, Monash University, Australia. *Nanofabrication using Peptide Nucleic Acids.*
- Dr. Olivier Blacque, University of Zurich, Switzerland. *DFT calculations.*
- Prof. Hui Chao, Sun Yat-Sen University, China. *Bioimaging with Metal Complexes.*
- PD Stefano Ferrari, University of Zurich, Switzerland. *Biological Evaluation of Metal Complexes on Cancer Cells.*
- Dr. Alison Funston, Monash University, Australia. *Utilisation of Peptide Nucleic Acids in nanoscience.*
- Prof. Robin Gasser, University of Melbourne, Australia. *Biological Evaluation of Metal Complexes on Parasites.*
- Dr. Teresa Gianferrara, University of Trieste, Italy. *Synthesis of Photosensitisers.*
- Dr. Bim Graham, Monash University, Australia. *Synthesis of Upconversion Nanoparticles.*
- Prof. Jennifer Keiser, Swiss Tropical Institute, Basel, Switzerland. *Biological Evaluation of Metal Complexes on Parasites.*
- Prof. Caroline Maake, University of Zurich, Switzerland. *Biological Evaluation of Metal Complexes on Tumor Models.*
- Prof. Thomas Mindt, ETH Zurich, Switzerland. *Synthesis of new chelators for <sup>89</sup>Zr labelling.*
- Dr. Luca Salassa, CIC BiomaGUNE, San Sebastian, Spain. *Computational Studies.*
- Prof. Leone Spiccia, Monash University, Australia. *Metal-Bioconjugates for Biosensing Purposes.*
- Prof. Roland Sigel, University of Zurich, Switzerland. *Use of PNAs to label large RNA.*
- PD Dr. Bernhard Spingler, University of Zurich, Switzerland. *X-ray Structure Determination of Metal-Bioconjugates.*
- Dr. Holger Stephan, Helmholtz Research Centre Dresden-Rossendorf, Germany. *Radiolabelling and Biological Evaluation of Metal-Bioconjugates.*

## INVITED TALKS

6 keynote speaker invitations, 26 invited talks at universities and 20 offered talks at conferences.

### a) Keynote Speaker Invitations at Conferences

- 1) “Towards Organometallic Antischistosomal Candidates”, 21<sup>th</sup> European Association for Chemical and Molecular Sciences Conference on Organometallic Chemistry (EuCOMC XXI), Bratislava (Slovakia), July 2015.
- 2) “New Perspectives in the use of Metal Complexes in Medicinal Chemistry”, Swiss Chemical Society Meeting, Basel (Switzerland), April 2015.



- 3) *"Novel Opportunities in PDT using Metal Complexes"*, The International Congress on Photodynamic Applications, Dundee (Scotland), May 2014.
- 4) *"Metal Complexes in Photodynamic Therapy"*, 5<sup>th</sup> International Meeting of the European Platform for Photodynamic Medicine, Ustron (Poland), November 2013.
- 5) *"Novel Concepts in Medicinal Inorganic Chemistry"*, Young Faculty Meeting, Bern (Switzerland), June 2012.
- 6) *"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**

- 1) *"Metal Complexes, Light, Anticancer Action!"*, University of Fribourg, (Switzerland), October 2015.
- 2) *"Metal Complexes, Light, Anticancer Action!"*, Swiss Federal Institute of Technology Zurich, (Switzerland), September 2015.
- 3) *"Metals and Medicine: a Successful Combination"*, University of Basel, (Switzerland), August 2015.
- 4) *"New Perspectives in the Use of Metal Complexes in Medicinal Chemistry"*, Helmholtz-Zentrum Dresden-Rossendorf (Germany), July 2015.
- 5) *"Towards the Use of Ru(II) and Re(I) Complexes as Anticancer Agents"*, Sun Yat-Sen University (China), January 2015.
- 6) *"Metal Complexes, Light, Anticancer Action!"*, University of Hamburg (Germany), December 2015.
- 7) *"Towards the Use of Ru(II) and Re(I) Complexes as Anticancer Agents"*, University of Belgrade (Serbia), September 2014.
- 8) *"Novel Strategies in Photodynamic Therapy using Metal Complexes"*, University of Macau (Macau), May 2014.
- 9) *"Phototherapy with Metal Complexes"*, University of Leiden (the Netherlands), March 2014
- 10) *"Metal Complexes in Medicinal Chemistry"*, Institute of Anatomy, University of Zurich (Switzerland), December 2013.
- 11) *"New Progresses in the Development of Antiparasitic Drug Candidates"*, Ecole Nationale Supérieure de Chimie (France), September 2013.
- 12) *"Novel Opportunities in Chemical Biology and Nanoscience with Metal-Containing Peptide Nucleic Acids"*, University of Wollongong (Australia), January 2013.
- 13) *"In vitro and in vivo Investigations of novel Metal-Based Antiparasitic and Anticancer Drug Candidates"*, Monash University (Australia), February 2013.
- 14) *"Towards Novel Metal-Based Antiparasitical and Anticancer Drug Candidates"*, University of Sydney (Australia), January 2013.
- 15) *"In Vitro and In Vivo Evaluation of Metal-Based Anthelmintic and Anticancer Drug Candidates"*, University of Melbourne (Australia), January 2013.
- 16) *"Preparation and Biological Evaluation of Novel Anthelmintic and Anticancer Metal-Based Candidates"*, Ruhr-University Bochum (Germany), November 2012.
- 17) *"Mitochondria-mediated Apoptosis as Mode of Action for a Novel Ru(II) Complex"*, University of Lille 1 (France), September 2012.

- 18) *"Metal Complexes for Medicinal Applications"*, Helmholtz-Zentrum Dresden-Rossendorf (Germany), August 2012.
- 19) *"Novel Anticancer Ru(II) and Re(I) Agents: Towards the Elucidation of their Mechanism of Action"*, University of Auckland (New Zealand), January 2012.
- 20) *"A Journey through the Preparation and Biological Applications of Metal-Containing Peptide Nucleic Acids"*, University of Birmingham (England), June 2011.
- 21) *"A Journey through the Preparation and Biological Applications of Metal-Containing Peptide Nucleic Acids"*, Technical University Braunschweig (Germany), December 2010.
- 22) *"Biological Applications of Metal-Containing Peptide Nucleic Acids"*, Helmholtz-Zentrum Dresden-Rossendorf (Germany), October 2009.
- 23) *"Metal Complexes containing Peptide Nucleic Acids for Medicinal and Biosensing Applications"*, University of Neuchâtel (Switzerland), October 2008.
- 24) *"Metal Complexes containing Peptide Nucleic Acids for Medicinal and Biosensing Applications"*, University of Zurich (Switzerland), October 2008.
- 25) *"Modified Peptide Nucleic Acids for Medicinal Applications"*, Helmholtz-Zentrum Dresden-Rossendorf (Germany), November 2007.
- 26) *"Use of Ferrocenyl Complexes and Peptide Nucleic Acids for Different Biological Applications"*, Helmholtz-Zentrum Dresden-Rossendorf (Germany), October 2006.
- 27) *"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 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.
- 2) *"Evaluation of novel Ru(II) Polypyridyl Complexes as Photosensitizers in Photodynamic Therapy"*, COST Meeting, Belgrade (Serbia), September 2015.
- 3) *"Ru(II) Polypyridyl Complexes as potent Photosensitizers in Photodynamic Therapy"*, ACS Conference – Fall Meeting, Boston (USA), September 2015.
- 4) *"Ru(II) Complexes as potent Photosensitizers in Photodynamic Therapy"*, International Photodynamic Association Conference, Zurich (Brazil), May 2015.
- 5) *"Phototoxic Metal Bioconjugates with a Dual Mode of Action"*, COST Meeting, Zurich (Switzerland), August 2014.
- 6) *"Organometallic Compounds to fight Schistosomiasis"*, International Symposium on Bioorganometallic Chemistry, Vienna (Austria), July 2014.
- 7) *"Towards Novel the Use of Re(I) and Ru(II) in Photodynamic Therapy"*, The International Congress on Photodynamic Applications, Dundee (Scotland), May 2014.
- 8) *"Photodelivery of Cytotoxic Metal Complexes in Living Cells"*, COST Meeting, Madrid (Spain), April 2014.
- 9) *"Towards the Use of Re<sup>I</sup> and Ru<sup>II</sup> Complexes as Photosensitizers in Photodynamic Therapy"*, Swiss-Kyoto Symposium, Zurich (Switzerland), November 2013.
- 10) *"Towards Novel the Use of Re(I) and Ru(II) in Photodynamic Therapy"*, WHAM Meeting, Barcelona (Spain), September 2013.
- 11) *"Towards Novel Organometallic-Based Anthelmintic Drug Candidates"*, International Conference on Biological Inorganic Chemistry, Grenoble (France), July 2013.

- 12) *"Towards the Elucidation of the Mechanism of Action of an inert Ruthenium Anticancer Drug Candidate"*, ACS Conference – Spring Meeting, New Orleans (USA), April 2013.
- 13) *"Towards Novel Metal-Based Anthelmintic and Anticancer Drug Candidates"*, COST Action Meeting CM 1105, Groningen (The Netherlands), February 2013.
- 14) *"Novel Anticancer Ru(II) agents: Towards the Elucidation of their Mechanism of Action"*, WHAM Meeting, Granada (Spain), September 2012.
- 15) *"(Multi)-Ferrocene-Containing Peptide Nucleic Acid Bioconjugates"*, Ferrocene Colloquium, Braunschweig (Germany), February 2012.
- 16) *"Preparation and Biological Applications of novel Organometallic-Containing Peptide Nucleic Acids"*, International Conference on Biological Inorganic Chemistry, Vancouver (Canada), August 2011.
- 17) *"Multi-Organometallic-Containing PNAs: Preparation and Biological Applications"*, International Symposium on Bioorganometallic Chemistry, Bochum (Germany), July 2010.
- 18) *"Ferrocenyl Metal Complexes for Electrochemical Detection of DNA Nucleosides and Anions"*, Ferrocene Colloquium, Prague (Czech Republic), February 2008.
- 19) *"Recognition of Thymine and related Nucleosides by a Zn<sup>II</sup>-Cyclen Complex bearing a Ferrocenyl Pendant"*, International Conference of Coordination Chemistry", Cape Town (South Africa), August 2006.
- 20) *"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).

## 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 4<sup>th</sup> to 3<sup>rd</sup> Division of the Swiss League (1999).  
 Promotion from 3<sup>rd</sup> to 2<sup>nd</sup> Division of the Swiss League (2001).  
 Promotion from 2<sup>nd</sup> to 1<sup>st</sup> 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 2<sup>nd</sup> to 1<sup>st</sup> Division of the Swiss League (2003).

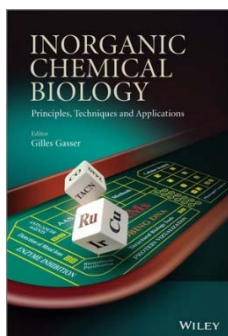


## REFEREES

1. Prof. Roger Alberto  
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2. Prof. Nils Metzler-Nolte  
Lehrstuhl für Anorganische Chemie I  
Ruhr-University Bochum  
Universitätsstrasse 150  
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4. Prof. Helen Stoeckli-Evans  
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### Book

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



### Book Chapters

1. **Organometallic Complexes as Enzyme Inhibitors: A Conceptual Overview**  
Bioorganometallic Chemistry: Applications in Drug Discovery, Biocatalysis, and Imaging  
(Eds. G. Jaouen, M. Salmain)  
P. Anstätt and **G. Gasser**,\* Wiley-VCH, **2015**, 1-42.  
ISBN: 978-3-527-33527-5
2. **Other Applications of Metal Complexes in Chemical Biology**  
Inorganic Chemical Biology: Principles, Techniques and Applications, (Ed. G. Gasser)  
T. Joshi, M. Patra and **G. Gasser**,\* John Wiley & Sons, Ltd, UK, **2014**, 373-401.  
ISBN: 978-1-11851-002-5
3. **Preparation of Metal-Containing Peptide Nucleic Acid Bioconjugates on the Solid Phase**  
Peptide Nucleic Acids, Methods and Protocols, 2<sup>nd</sup> Edition ed. (Eds. P.E. Nielsen, D.H. Appella)  
**G. Gasser**,\* Humana Press, **2014**, 55-72.  
ISBN: 978-1-62703-552-1
4. **Synthesis, Characterization and Evaluation of Radiometal-containing Peptide Nucleic Acids**  
Peptide Nucleic Acids, Methods and Protocols, 2<sup>nd</sup> Edition ed. (Eds. P.E. Nielsen, D.H. Appella)  
H. Stephan,\* C. Foerster, **G. Gasser**,\* Humana Press, **2014**, 37-54.  
ISBN: 978-1-62703-552-1
5. **Metal Compounds as Enzyme Inhibitors**  
Bioinorganic Medicinal Chemistry (Ed. E. Alessio).  
**G. Gasser**\* and N. Metzler-Nolte,\* Wiley-VCH, Weinheim, **2011**, 351-382.  
ISBN: 978-3-527-32631-0

## Reviews / Perspectives

- 1. Metal Complexes and Medicine: A Successful Combination**  
G. Gasser,\* *Chimia*, **2015**, 7, 442-446 (invited article to special issue dedicated to the SCS Laureates and Awards 2015).  
<http://dx.doi.org/10.2533/chimia.2015.442>
- 2. Lightening up Ruthenium Complexes to Fight Cancer?**  
C. Mari, and G. Gasser,\* *Chimia*, **2015**, 69, 176-181 (invited contribution to the special issue "Laureates of the SCS Fall Meeting 2014").  
<http://dx.doi.org/10.2533/chimia.2015.176>
- 3. Combination of Ru(II) Complexes and Light: New Frontiers in Cancer Therapy**  
C. Mari, V. Pierroz, S. Ferrari and G. Gasser,\* *Chem. Sci.*, **2015**, 6, 2660-2686.  
DOI: <http://dx.doi.org/10.1039/C4SC03759F> **OPEN ACCESS**  
One of the top 25 most-downloaded articles in *Chem. Sci.* in the second quarter of 2015.
- 4. Toward Organometallic Antischistosomal Drug Candidates**  
J. Hess, J. Keiser,\* and G. Gasser,\* *Future Chem. Med.*, **2015**, 7, 821-830 (invited contribution to the special issue on schistosomiasis).  
DOI: <http://dx.doi.org/10.4155/fmc.15.22> **OPEN ACCESS**
- 5. Towards Tris(diimine)-Ru(II) and Bis(quinoline) Re(I)(CO)<sub>3</sub> Complexes as Photoactivated Anticancer Drug Candidates**  
T. Joshi\* and G. Gasser,\* *Synlett*, **2015**, 26, 275-284 (invited contribution).  
DOI: <https://www.thieme-connect.de/DOI/DOI?10.1055/s-0034-1379426>
- 6. Underestimated Potential of Organometallic Rhenium Complexes as Anticancer Agents**  
A. Leonidova and G. Gasser,\* *ACS Chem. Biol.*, **2014**, 9, 2180-2193 (invited contribution).  
DOI: <http://dx.doi.org/10.1021/cb500528c>
- 7. Peptide Nucleic Acids – an Opportunity for Bio-Nanotechnology**  
P. Anstätt and G. Gasser,\* *Chimia*, **2014**, 68, 264-268 (invited contribution to the special issue "Laureates of the SCS Fall Meeting 2013").  
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- 3. Organometallic N-2-cyano-1-hydroxypropan-2-yl for Use as Anthelmintics**  
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- 5. N-(1-cyano-2-hydroxy-1-methyl-ethyl)-4-(trifluoromethylsulfanyl)benzamide Derivatives for Use as Nematocidal Drugs**  
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