

Curriculum vitae

Mag. Dr. Verena Pichler

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Place, Date of Birth: Steyr, 03.12.1984

Nationality: Austria

Employment History

05/2016 – up to date Medical University of Vienna – PostDoc, Department of Nuclear Medicine
05/2016 – up to date University of Applied Sciences Technikum Vienna – External Lecturer
09/2014 – 04/2016 University of Applied Sciences Technikum Vienna – Lecturer and Research Associate - Competence Team Teaching “Cell Culture Techniques”
09/2013 – 05/2014 University of Vienna – PostDoc, Institute of Inorganic Chemistry, Cell Culture Facility
01/2010 – 08/2013 University of Vienna – PraeDoc, Institute of Inorganic Chemistry

Education

06.08.2013 Ph.D. graduation in chemistry with distinction (Dr. rer. nat.)
12/2009 – 08/2013 Ph.D. thesis in chemistry at the University of Vienna
Title: “*Development of novel strategies for the synthesis of antiproliferative Pt^{IV} complexes with mixed axial ligands*”
03/2011 – 04/2011 Complementary research at the Medicinal University of Vienna
27.10.2009 Master graduation in chemistry with distinction (Mag. rer. nat.)
03/2009 – 11/2009 Diploma thesis at the University of Vienna
Title: “*Synthesis and characterisation of novel antitumour active platinum(IV) compounds*”
2005 – 2009 Studies of chemistry at the University of Vienna
2004 – 2005 Studies of economics at the Vienna University of Economics and Business (WU)
1991 – 2004 Elementary and secondary school (Matura) in Upper Austria, Steyr

Recent Research Interest

Synthesis and Preclinical Development of PET diagnostics

Investigation of 3D cell culture techniques

Awards and Scholarships

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| 2015 | Excellence prize: " Talentförderungsprämie des Landes Oberösterreich " (awarded based on excellence in science) (Austria) |
| 2009, 2010, 2013 | Performance Scholarship of the University of Vienna |
| 2009 | Performance Scholarship (Leistungsstipendium aus Stiftung und Sondervermögen) of the University of Vienna offered by private institutions |

Memberships

Austrian Chemical Society (GÖCH)

Austrian Society for Nuclear Medicine (OGNMB)

Publications and Presentations

Peer-Reviewed Publications

- [12] Göschl S.; Schreiber-Brynzak E.; Pichler V.; Cseh K.; Heffeter P.; Jungwirth U.; Jakupec M.; Berger W.; Keppler B. K. **“Comparative studies of oxaliplatin-based platinum(IV) complexes in different in vitro and in vivo tumor models”** *Metallomics*, submitted
- [11] Hackl C. M.; Novak M.; Pichler V.; Schmidlehner M.; Roller A.; Enyedy E. A.; Jakupec M. A.; Kandioller W.; Keppler B. K. **“Thiomaltol-based organometallic complexes with 1-methylimidazole as leaving group: synthesis, stability and biological behavior”** *Che. Eur. J.*; accepted.
- [10] Schreiber-Brynzak E.; Pichler V.; Heffeter P.; Hanson B.; Theiner S.; Lichtscheidl-Schultz I.; Kornauth Ch.; Bamonti L.; Dhery V.; Groza D.; Berry D.; Berger W.; Galanski M.; Jakupec M.; Keppler B. K. **“Behavior of platinum(IV) complexes in models of tumor hypoxia: cytotoxicity, compound distribution and accumulation”** *Metallomics*, **2016**, 8(4), 422-433.
- [9] Pichler V.; Göschl S.; Schreiber-Brynzak E.; Jakupec M. A.; Galanski M.; Keppler B. K. **“Influence of reducing agents on the cytotoxicity of platinum(IV) complexes: induction of G2/M arrest, apoptosis and oxidative stress in A2780 and cisplatin resistant A2780cis cell lines”** *Metallomics*, **2015**, 7(7), 1078-1090.
- [8] Kuhn P.-S.; Pichler V.; Roller A.; Hejl M.; Jakupec M. A.; Kandioller W.; Bernhard K. B. **“Improved reaction conditions for the synthesis of new NKP-1339 derivatives and preliminary investigations on their anticancer potential”** *Dalton Trans.* **2015**, 44(2), 659-668.
- [7] Schmidlehner M.; Pichler V.; Roller A.; Jakupec M. A.; Kandioller W.; Keppler B. K. **“Organometallic complexes of (thio)allomaltol-based Mannich-products: synthesis, stability and preliminary biological investigations”** *J. Organomet. Chem.* **2015**, 782, 69-76.
- [6] Karnthaler-Benbakka C.; Groza D.; Kryeziu K.; Pichler V.; Roller A.; Berger W.; Heffeter P.; Kowol C. R. **“Tumor-Targeting of EGFR Inhibitors via Hypoxia-Mediated Activation”** *Angew. Chem. Int. Ed.* **2014**, 53, 1-7.
- [5] Pichler V.; Göschl S.; Meier S. M.; Roller A.; Galanski M.; Keppler B. K. **“Bulky N(N)-(di)alkylethane-1,2-diamine platinum(II) compounds as precursors for generating unsymmetrically substituted platinum(IV) complexes”** *Inorg. Chem.* **2013**, 52 (14), 8151-8162.
- [4] Meier S. M.; Hanif M.; Adhireksan Z.; Pichler V.; Novak M.; Jirkovsky E.; Jakupec M. A.; Arion V. B.; Dave C. A.; Keppler B. K.; Hartinger C. G. **“Novel Metal(II) Arene 2-Pyridinecarbothioamides: A Rational to Orally Active Organometallic Anticancer Agents”** *Chem. Science* **2013**, 4 (4), 1837-1846.
- [3] Pichler V.; Mayr J.; Heffeter P.; Dömötör O.; Enyedy E. A.; Hermann G.; Groza D.; Köllensperger G.; Galanski M.; Berger W.; Keppler B. K.; Kowol C. R. **“Maleimide-functionalised platinum(IV) complexes as synthetic platform for targeted drug delivery”** *Chem. Commun.* **2013**, 49 (22), 2249-2251.
- [2] Pichler V.; Heffeter P.; Valiahdi S. M.; Kowol C. R.; Egger A.; Berger W.; Jakupec M. A.; Galanski M.; Keppler B. K. **“Unsymmetric mono- and dinuclear platinum(IV) complexes featuring an ethylene glycol moiety: synthesis, characterization and biological activity”** *J. Med. Chem.* **2012**, 55 (24) 11052-11061.
- [1] Pichler V.; Valiahdi S. M.; Jakupec M. A.; Arion V. B.; Galanski M.; Keppler B. K. **“Mono-carboxylated diaminedichlorido platinum(IV) complexes - selective synthesis, characterization, and cytotoxicity”** *Dalton Trans.* **2011**, 40 (32), 8187-8192.

Non Peer-Reviewed Publications

- [1] Leeb C.; Leitner R.; Pichler V.; Huber-Gries C.; Rünzler D.; Jesenberger V. **“Einführung und Optimierung eines praxisorientierten Problem-based-Learning-Moduls im Life-Science-Bereich”** *ZFHE* **2016**, 3, 107-121.

Conferences

Oral Contributions

- [4] Pichler V.; Jakupec M. A.; Galanski M.; Keppler B. K. „**Influence of reducing agents on the activity of Pt(IV) complexes**” Expert Meeting WG5 of the COST Action CM1105, Madrid, Spain, April 28.-29. **2014**.
- [3] Pichler V.; Galanski M.; Keppler B. K. „**Differences and similarities between symmetrically and unsymmetrically substituted Pt^{IV} complexes with N,(N)-(di)alkylethane-1,2-diamine ligands**” 2nd Whole Action Meeting of the COST Action CM1105, Barcelona, Spain, September 8.-9. **2013**.
- [2] Pichler V.; Galanski M.; Keppler B. K. „**Asymmetrically substituted platinum(IV) complexes**” *International conference “Metallo drugs I: Design and mechanism of action”*, Oloumoc, Czech republic, December 6.-9. **2012**.
- [1] Pichler V.; Heffeter P.; Valiahdi S. M.; Jakupe, M. A.; Arion V. B.; Berger W.; Galanski M.; Keppler B. K. „**Synthesis, characterization and cytotoxicity of mono- and dinuclear platinum(IV) compounds containing an ethylene glycol moiety**” *7th Workshop of Inorganic Chemistry in Austria (WACÖ 2012)*, Innsbruck, Austria, April 2.-3. **2012**.

Poster Contributions

- [4] Mandt D.; Pichler V.; Melchior S.; Rünzler D.; „**Establishment of 2D and 3D cell culture assays using RTgill-W1 cells**” *20th European Congress on Alternatives to Animal Testings (EUSAAT 2016)*, Linz, Austria, August 24-27, **2016**.
- [3] Pichler V.; Göschl S.; Meier S.M.; Roller A.; Jakupec M. A.; Galanski M.; Keppler B. K. „**Asymmetric and symmetric Pt^{IV} complexes: new insights into the influence of the equatorial ligands sphere on reactivity and stability.**” *International Conference of Biological Inorganic Chemistry (ICBIC 16)*, Grenoble, France, July 22.-26. **2013**.
- [2] Pichler V.; Heffeter P.; Valiahdi S. M.; Jakupec M. A.; Arion V. B.; Berger W.; Galanski M.; Keppler B. K. „**Mono- and dinuclear platinum(IV) compounds containing an ethylene glycol moiety: synthesis, characterization and cytotoxicity**” *International Symposium on Metal Complexes (ISMEC2012)*, Lisbon, Portugal, June 18-22, **2012**.
- [1] Pichler V.; Valiahdi S. M.; Jakupec M. A.; Arion V. B.; Galanski M.; Keppler B. K. „**Selective synthesis, characterization, and cytotoxicity of mono-carboxylated diaminedichloride platinum(IV) compounds**” *15th International Conference of Biological Inorganic Chemistry (ICBIC 15)*, Vancouver, BC, Canada, August 7-12, **2011**.