

Curriculum Vitae
Mag. Dr. rer. nat. Michael Alexander Jakupec

Personal Data

Date of birth December 5, 1969
Place of birth Vienna, Austria
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Education

2000–2004 University of Vienna: PhD studies in Biology, PhD thesis in Bioinorganic Chemistry (*Structure-Activity Investigations on Tumour-Inhibiting Metal Complexes*)
1988–1998 University of Vienna: Diploma studies in Biology (Zoology with Ecology), Master thesis in Zoology (*Snail Coenoses of Selected Dry Grasslands in Marchfeld. Variation and Correlated Environmental Factors* [transl.]

Career History

2007–present University of Vienna, Institute of Inorganic Chemistry: Senior Scientist, Head of cell culture facility
2000–2007 University of Vienna, Institute of Inorganic Chemistry: University Assistant, Head of cell culture laboratory
1999–2000 University of Vienna, Institute of Inorganic Chemistry: Contractual Assistant
1998–1999 Arbeitsgruppe Wirkstoffentwicklung in der Onkologie (AWO), German Cancer Society (DKG): Scientific Secretary

Participation in Scientific Projects

2021–2023 *Novel Anticancer Agents – from Design to Clinical Translation.* Interdisciplinary Cluster Project, University of Vienna and Medical University of Vienna (Principal Investigators: B. K. Keppler, W. Berger): Co-Author, Co-Investigator
2015–2018 *NanoSIMS/EM/CLSM Imaging of Platinum-based Anticancer Drugs.* Austrian Science Fund (FWF) project no. P 27749 (Principal Investigator: B. K. Keppler): Co-Author, Co-Investigator
2013–2015 *Exploring Novel Protein Targets of Anticancer Metal Compounds.* J. Mahlke née Obermann Foundation project: Principal Investigator
2009–2020 *Translational Cancer Therapy Research.* Research Platform/Cluster, University of Vienna and Medical University of Vienna (Principal Investigators: B. K. Keppler, W. Berger): Co-Author, Co-Investigator
2009–2013 *Critical Targets of Ruthenium, Platinum and Gold Complexes.* Austrian Science Fund (FWF) project no. L567 (Principal Investigator: B. K. Keppler): Co-Author, Co-Investigator
2005–2009 *Clinical Development of Novel Antineoplastic Agents.* Austrian Research Promotion Agency (FFG) project no. 811591 (Principal Investigator: B. K. Keppler): Co-Investigator

Career-related Activities

Memberships in scientific societies	Central European Society of Anticancer Drug Research-EWIV (CESAR-EWIV) (2000–2006) Arbeitsgruppe Wirkstoffentwicklung in der Onkologie (AWO), German Cancer Society (DKG) (1998–2000)
Memberships in scientific boards	10 th International Symposium on Metal Ions in Biology and Medicine (MIBM-10), Bastia, France, 2008: International Editorial Board 13 th International Conference on Biological Inorganic Chemistry (ICBIC-13), Vienna, Austria, 2007: Scientific Organizing Committee Management Committee Substitute Member in COST Action CM1105 (“Functional metal complexes that bind to biomolecules”) (2012–2016)
Refereeing for scientific journals	<i>Anticancer Agents in Medicinal Chemistry, Chemotherapy, Dalton Transactions, Future Medicinal Chemistry, Journal of Agricultural and Food Chemistry, Journal of Biological Inorganic Chemistry, Journal of Inorganic Biochemistry, Journal of Organometallic Chemistry, Mini-Reviews in Medicinal Chemistry, New Journal of Chemistry</i>

Tutoring/Teaching/Mentoring Experience

2008–present	University of Vienna: Mentoring of 17 PhD students and 11 master students, teaching in advanced laboratory courses in Bioinorganic Chemistry and Ecotoxicology (Curriculum Chemistry)
1999–2008	University of Vienna: Teaching Assistant in introductory laboratory courses in Chemistry, advanced laboratory courses and seminars in Bioinorganic Chemistry (Curricula Chemistry and Molecular Biology)
1990–1998	University of Vienna: Tutor in introductory practical courses in Botany, introductory and advanced practical courses in Zoology (Curriculum Biology)

Publications, Lectures, Congress Contributions

222 (co-)authored publications (203 journal articles, 6 book chapters, 13 proceedings)
10 lectures, 173 (co-)authored poster presentations
h index: 58 (Scopus, 2023-02-10, w/o self-citations)

Research Interests

The main research interest of M. A. Jakupec is in the development of anticancer drugs based on innovative metal compounds, especially the investigation of their cytotoxic properties in tumor cell cultures. Substantial contributions to the preclinical development of BOLD-100 (KP1339) and AP-002 (KP46), two investigational drugs currently evaluated in clinical studies, are to be mentioned here. From an emphasis on structure–activity relationships and the necessity of compound selection for preclinical and clinical studies stems a particular interest in the application of *in vitro* methods with improved predictivity for anticancer activity *in vivo*. This is why his research has recently shifted to three-dimensional cell cultures such as multicellular tumor spheroids, the inherent potentials of which he is seeking to explore.