

UNIV.-PROF. DR. GERHARD ECKER ♦

*Pharmacoinformatics Research Group*

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universität  
wien

## CURRICULUM VITAE

*Date and Place of Birth:* Oct. 14, 1962, Seitenstetten, Austria  
Married with Mag.pharm. Ursula Ecker, two children (Florian & Johanna)

### EDUCATION AND CAREER

- 1981 - 1986 Study of Pharmacy, University of Vienna
- 1986 - 1991 Ph.D. under supervision of Prof. Fleischhacker and Prof. Noe: *"Synthesis of the enantiomers of propafenone and benzofurane analogous compounds"*  
Graduated to Dr. rer. nat., University of Vienna
- 1995 Post-doc stay in the group of Prof. Seydel, Research Center, Borstel, Germany
- 1998 Habilitation (venia docendi; Assoc. Prof.) for Pharmaceutical Chemistry, University of Vienna: *„Structure-Activity Relationship Studies on Modulators of Multidrug Resistance“*
- 2004 - Coordinator of the Research Focus *„Computational Life Sciences“* at the Faculty of Life Sciences, University of Vienna
- 2005 - 2008 Head of the Emerging Field Pharmacoinformatics, Department of Medicinal Chemistry, University of Vienna
- 2008 Offer from the University of Tübingen for the appointment as full professor (W3) for Medicinal Chemistry - Drug Design, declined
- Oct 2009 Appointment as full professor for Pharmacoinformatics, University of Vienna

### University Organisation

- 2003 - Member of the Senate of the University of Vienna, Vice Chair since June 2006
- 2004 – 2006 Mentor in the mu:v Mentoring University Vienna Program for the promotion of Women in Sciences

### Awards

- 1997 HERBA-Award for excellent pharmaceutical research
- 2002 Prize of the City of Vienna for Achievements in Sciences (Förderpreis der Stadt Wien für die Wissenschaften)

### Societies

- 1996 - Member of the Executive Committee of the Austrian Pharmaceutical Society, Vice President since Jan 2006
- 2000 - Member of the Council of the European Federation for Medicinal Chemistry
- 2003 - Member of the Executive Committee of the European Federation for Medicinal Chemis-

try, Secretary 2003 – 2007, President-elect 2008

2009 - President of the European Federation for Medicinal Chemistry

### **Editorial Boards**

1997 - Member of the Editorial Board of *Expert Opinions on Therapeutic Patents, Section Endocrine and Oncologic*.

2003 - Member of the Editorial Advisory Board of *Current Computer-Aided Drug Design*

2004 - Member of the Editorial Advisory Board of *Medicinal Chemistry*

2007 - 2008 Editor of *MedChemWatch*, the e-newsletter of the European Federation for Medicinal Chemistry

2009 - Member of the Editorial Advisory Board of *Future Medicinal Chemistry*

2010 - Editor of *Molecular Informatics*

### **Congresses, Symposia**

2005 Joint Meeting on Medicinal Chemistry, Vienna; co-chair

2006 International Symposium on Medicinal Chemistry, Istanbul; Member International Organising Committee

2008 International Symposium on Medicinal Chemistry, Vienna; Member International Organising Committee

2009 Advances in Synthetic and Medicinal Chemistry, Kiev; Co-chair International Organising Committee

2010 International Symposium on Medicinal Chemistry, Brussels; Member International Organising Committee

2001 - Summer School on Drug Design, Vienna; Organiser

### **RESEARCH ACTIVITIES** (at present 89 full paper, 197 conference contributions and 94 invited lectures)

- Modulation of multidrug resistance via inhibition of toxin efflux pumps
- Artificial Neural Networks for lead identification and drug design
- Chemical similarity as tool for rational drug design
- Early ADME Profiling and *in silico* screening of polyspecific targets
- Structure-based design approaches for polyspecific proteins
- Homology modelling and molecular dynamics simulations of membrane-bound proteins

### **TEACHING**

- Mathematics and Statistics for Pharmacists
- Biophysical Pharmaceutical Chemistry
- Analysis of Structure-Activity Relationships
- Bioinformatics and Protein Modelling for Pharmacists
- Molecular Modelling for Pharmacists - Exercises
- Drug Resistance – Mechanisms and Solutions
- Rational Drug Design (Seminar)
- Pharmacoinformatics (Seminar)
- Computational Life Sciences (Seminar)
- Laboratory Course – Drug Analysis and –development (including *in silico* methods)

## **BIBLIOGRAPHIC SKETCH**

Gerhard Ecker is Associate Professor for Pharmaceutical Chemistry and Head of the Pharmacoinformatics Research Group at the Department of Medicinal Chemistry, University of Vienna. He also coordinates the research focus “Computational Life Sciences” of the Faculty of Life Sciences. Gerhard received his doctorate in natural sciences from the University of Vienna and performed his post-doctoral training at the group of J. Seydel in Borstel (Germany). He has published more than 90 articles related to SAR and QSAR studies on P-glycoprotein and his main scientific interests include pharmacoinformatic approaches to target drug efflux pumps, *in silico* high throughput screening methods for promiscuous targets and antitargets, and non-linear methods in drug design. Gerhard was vice-chair of the Senate of the University of Vienna 2006 – 2009, he is currently vice-president of the Austrian Pharmaceutical Society and President of the European Federation for Medicinal Chemistry. From Oct 1<sup>st</sup> 2009 on he holds a position as full professor for pharmacoinformatics at the University of Vienna.