

HONORARY LIFE FELLOWS-2015

Prof. Colin Suckling

Research Professor of Chemistry

WestCHEM, Department of Pure & Applied Chemistry

University of Strathclyde

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Colin Suckling obtained a first class honours degree from the University of Liverpool in 1967 and his PhD in 1970 working on the synthesis of porphyrins guided by the Professor George Kenner, FRS. The DSc followed in 1989 based on work carried out at the University of Strathclyde where Colin has been employed since 1972.

Colin Suckling was Freeland Professor of Chemistry at the University of Strathclyde from 1989 to 2012. During the 1990s until 2002, he served successively as Dean of the Faculty of Science, Deputy Principal, and Vice Principal of the University of Strathclyde. Much of Colin's work during that time was strategic including the development of inter-institutional and interdisciplinary research partnerships notably the research collaboration with the University of Glasgow (WestCHEM), which was recognized publicly with the award of OBE in 2006. During this time, significant effort was also put into the commercialisation of research both through his work as a senior officer of the University and specifically in the commercialisation of discoveries related to the synthesis of leucovorin, a compound extensively used as part of cancer chemotherapy. Colin was one of the first scientists to emphasise and to exemplify the symbiosis of chemistry and biology through his studies of enzymes and their models. Recent and current research interests focus on the synthesis and properties of heterocyclic compounds designed as molecular probes for biological systems or as drugs. Particular progress has been made in the field of fused pyrimidine compounds with anticancer and antiparasitic activity and in the field of minor groove binders for DNA with antibacterial activity. In the case of the minor groove binders, MGB Biopharma has developed one compound for clinical trials against *C. difficile* and further compounds with exciting activity have been identified in the fields of parasitic and viral infectious disease and cancer. Colin's standing in the field of heterocyclic and medicinal chemistry has been recognized by the award of the Adrien Albert Lectureship of the Royal Society of Chemistry (2009-10), his appointment as chairman of the 2011 International Congress of Heterocyclic Chemistry held in Glasgow, the Nexxus Lifetime Achievement Award (2011). Colin is a Fellow of many learned societies and Royal Colleges including the Royal Society of Chemistry and the Royal Society of Edinburgh.

Prof. Rui Moreira

Professor of Medicinal Chemistry, School of Pharmacy University of Lisbon,

Current Position Professor of Medicinal Chemistry, School of Pharmacy, University of Lisbon

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Education/Training

University of Lisbon, 1985. MSc, Pharmaceutical Sciences

University of Lisbon, 1991

The Open University UK, 1992, Postdoctoral fellow

University of Lisbon, 2004. Habilitation

Positions and Academic Appointments (selection)

2011- Head, Department of Medicinal Chemistry, Faculty of Pharmacy, University of Lisbon

2010- Director, Research Institute for Medicines and Pharmaceutical Sciences, University of Lisbon

2006- Full Professor, Faculty of Pharmacy, University of Lisbon

2002-2006 Associate Professor, Faculty of Pharmacy, University of Lisbon

1991-2002 Assistant Professor, Faculty of Pharmacy, University of Lisbon

1985-1991 Research Assistant, Faculty of Pharmacy, University of Lisbon

Honors (selection)

2014 EFMC-International Symposium on Medicinal Chemistry 2014, Lisbon (Chair)

2009 Luso-American Collaborative Response Awards: Towards New Research Partnerships on Malaria

1985 Sociedade Lusitana Award, Portuguese Pharmaceutical Society

Conferences

20 Invited Lectures and Conferences in Europe, USA and Africa.

Project Management, Research Awards, and Extramural Grants

Nearly 2 million euros in direct funding from a variety of sources including companies and FCT (Portugal).

Supervision and Mentoring

Successfully supervised 14 PhD students.

Scientific Interests

My expertise covers the design and synthesis of focused and targeted chemical libraries and over the last 5 years, I focused my research on the discovery of new chemical scaffolds that selectively target enzymes and other proteins involved in inflammation, cancer and infectious diseases. I apply physical organic chemistry principles to develop structure-activity relationships (SAR) studies covering inhibitors for serine and cysteine proteases, anticancer agents and antimalarial agents. Among the major achievements of my research group are the discovery of (i) novel classes of multi-

stage antimalarial agents, (ii) highly potent human neutrophil elastase (HNE) inhibitors with an activity profile that mimics that of endogenous HNE inhibitors, (iii) novel p53-MDM2 protein-protein interaction inhibitors, and (iv) innovative G-quadruplex ligands as anticancer agents. My current tracking record is 120 papers in peer-reviewed journals including *J. Med. Chem.*, *J. Org. Chem.* and *Proc. Natl. Acad. Sci.*

Prof. Karol Lesław Grela

Institute of Organic Chemistry Polish Academy of Science, Director of the Organometallic Synthesis Laboratory at the Faculty of Chemistry

Born: 23.11.1970, Warszawa, Poland

Nationality: Polish



Education:

- Chemical Technician - Technikum Chemiczne w Warszawie, 1990
- Master Thesis - Warsaw University of Technology, Department of Chemistry, 1994
- PhD - Institute of Organic Chemistry, Polish Academy of Sciences, 1998
- Postdoc - with Alois Fürstner at the Max Planck Institute, Mülheim an der Ruhr, Germany, 1999-2000
- Habilitation - Institute of Organic Chemistry, Polish Academy of Sciences, 2003
- Professor - Institute of Organic Chemistry, Polish Academy of Sciences, 2008

Employment:

- Full professor at the Institute of Organic Chemistry, Polish Academy of Science
- Director of the Organometallic Synthesis Laboratory at the Faculty of Chemistry, University of Warsaw

Achievements:

- Foundation for Polish Science Fellowship, 1998
- Prime Minister of Polish Government Prize for the best PhD, 1999
- Alexander von Humboldt Fellowship, 1999
- Polish Academy of Sciences Włodzimierz Kołos Prize, 2003
- Prime Minister of Polish Government Prize for the best Habilitation, 2004
- Maria Skłodowska-Curie & Wilhelm Klemm Lectureship of the German Chemical Society, 2007
- The "Master" Professorship of the Foundation for Polish Science
- Prime Minister of Polish Government Prize for the best Scientific Achievement, 2010
- The Minister of Science and Higher Education Prize, 2010

Membership:

- Member of the International Advisory Board of the *Organometallics* ACS journal.
- Member of the International Advisory Board of the *European Journal of Organic Chemistry*
- *Honorary Membership of the Israel Chemical Society*, 2011

Dr. Ute Schepers

Institute of Toxicology and Genetics,
Karlsruhe Institute of Technology (KIT),
Karlsruhe,
Germany



PERSONAL DATA

Name: Priv. Doz. Dr. Ute, Sophia Schepers
Date of Birth: 8. Oktober 1966 in Rhede, Kreis Borken
Family Status: verheiratet mit Prof. Dr. Stefan Bräse, ein Sohn(Philipp 26.10.2010)
Address: Maarstr. 38
53842 Troisdorf
Institute: Institute of Toxicology and Genetics,
Karlsruhe Institute of Technology (KIT)
Campus Nord
Hermann von Helmholtz Platz 1
76344 Eggenstein-Leopoldshafen, Germany

ACADEMIC CAREER

2/2011 Habilitation at the Karlsruhe Institute of Technology (KIT) in Chemical Biology and Biochemistry
Seit 2/2009 Group Leader at the Institute of Toxicology and Genetics, KIT, Karlsruhe
2001-2008 Junior-Group Leader at the Institute of Organic Chemistry and Biochemistry, University of Bonn
1/1998-9/2000 Research Associate at the Department of Cell Biology and the Center for Blood Research of Harvard University Medical School Boston, USA in the group of Tom Kirchhausen
8/1996-12/1997 Postdoctoral fellow at the Institute of Organic Chemistry and Biochemistry, University of Bonn
1/1993-3/1997 PhD in Biochemistry in the group of Prof. Dr. K. Sandhoff at the Institute of Organic Chemistry and Biochemistry, University of Bonn
1-12/1992 Diploma in Chemistry in the group of Prof. Dr. K. Sandhoff at the Institute of Organic Chemistry and Biochemistry, University of Bonn

10/1986-12/91 Ungraduate studies of Chemistry PhD at the Institute of Organic Chemistry and Biochemistry, University of Bonn

1977-1986 HighschoolGymnasium zumAltenforst, Troisdorf, Topics: Mathematicsand Physics

AWARDS

1993-1996 Fellowship of the Deutsche Forschungsgemeinschaft (DFG) in the Graduate Program „Functional Protein Domains“

2000 Gordon Research Foundation/ National Institute of Health (USA) Award on „Hormonal and Neuronal Peptide Biosynthesis“ research

2002 Bonner Forum Biomedizin Award 2002 for research on: RNAi of Glucosylceramide-Synthase: A Protein involved in Skin Barrier Formation

2002 Bonner Forum Biomedizin Award 2002 for research on: Synthesis of a new carrier-System for Transduction of siRNAs into Cells for Local Transient Posttranscriptional Gene Silencing in Living Organisms

2003 Bonner Forum Biomedizin Award 2003 for research on : Analysis of Skin Glycosphingolipid Metabolism by RNA Interference

2003 Bonner Forum Biomedizin Award 2003 for research on: Synthesis of a new carrier-System for Transduction of siRNAs into Cells for Local Transient Posttranscriptional Gene Silencing in Living Organisms

2004 Thieme Journal Award

2014 1. Preis Neuland Innovationspreis „Früherkennung maligner Melanomen“

2014 Elevator Pitch BW 1. Price (Regional Cup Karlsruhe)

INVITATIONS FOR OPEN PROFESSORSHIPS

1/2003 Universität Tübingen, Institut für Biochemie, C3- Nachfolge Weber

0-6/2003 Universität Frankfurt, Institut für Organische Chemie, Degussa Stiftungsprofessur (C3)

6/2010 KIT, Karlsruhe, Chemical Biology (W3)

Prof. Sun Choi, Ph.D.

National Leading Research Laboratory (NLRL) of Molecular Modeling & Drug Design,
College of Pharmacy and Graduate School of Pharmaceutical Sciences,
Ewha Womans University, Seoul 120-750, Korea
E-mail: sunchoi@ewha.ac.kr
Homepage: <http://home.ewha.ac.kr/~caddsc/>



EDUCATION

- **Ph.D. Medicinal Chemistry, State University of New York at Buffalo**, Buffalo, New York, USA (1999)
- **B.S. College of Pharmacy, Ewha Womans University**, Seoul, Korea (1987)

EXPERIENCE

- **Assistant Professor, Associate Professor: College of Pharmacy, Ewha Womans University** (Oct 2005 to present)
- **Molecular Modeler / Computational Chemist: Tripos Discovery Research, Tripos, Inc.**, St. Louis, Missouri, USA (Jan 2001 - Sep 2005)
- **Postdoctoral Fellow: Department of Chemistry and the Drug Discovery Program, Northwestern University**, Evanston, Illinois, USA (Sep 1997 - Feb 2001)

HONORS AND AWARDS

- **Director of the "National Leading Research Lab (NLRL) of Molecular Modeling & Drug Design"** designated by the Ministry of Education, Science and Technology (MEST) of Korea (2011 to present)
- **18th EuroQSAR Symposium "Discovery Informatics & Drug Design" Best Poster Presentation Award:** at the 18th European Symposium on Quantitative Structure-Activity Relationships, Rhodes, Greece (2010)
- **Wiley-VCH "ChemMedChem Poster Prize"** at EFMC-ISMC 2008 (European Federation for Medicinal Chemistry-XXth International Symposium on Medicinal Chemistry) (2008)

SELECTED PUBLICATIONS

- ♦ "Promiscuous gating-modifiers target the voltage sensor of Kv7.2, TRPV1 and Hv1 cation channels," P. Kornilov, A. Peretz, Y. Lee, K. Son, J. H. Lee, B. Refaeli, N. Roz, M. Rehavi, S. Choi^{*}, and B. Attali^{*}, *FASEB J.* **2014**, *28*(6), 2591-2602.
- ♦ "Mapping the intramolecular signal transduction of G-protein coupled receptors," Y. Lee, S. Choi^{*}, & C. Hyeon^{*}, *Proteins: Structure, Function, and Bioinformatics* **2014**, *82*(5), 727-743.
- ♦ "Molecular Modeling Studies of the Novel Inhibitors of DNA Methyltransferases SGI-1027 and CBC12: Implications for the Mechanism of Inhibition of DNMTs," Yoo, J., S. Choi^{*}, and

- J.L. Medina-Franco^{*}, *PLoS One* **2013**, *8(4)*, e62152.
- ◆ “8-Hydroxy-2-deoxyguanosine prevents plaque formation and inhibits vascular smooth muscle cell activation through Rac1 inactivation,” J. Y. Huh, D. J. Son, Y. Lee, J. Lee, B. Kim, H. M. Lee, H. Jo, S. Choi^{*}, H. Ha^{*}, and M. -H. Chung, *Free Radic. Biol. Med.* **2012**, *53(1)*, 109-121.
 - ◆ “Link between allosteric signal transduction and functional dynamics in a multi-subunit enzyme: S-adenosylhomocysteine hydrolase,” Y. Lee, L. S. Jeong, S. Choi^{*}, and C. Hyeon^{*}, *J. Am. Chem. Soc.* **2011**, *133(49)*, 19807-19815.
 - ◆ “X-ray Crystal Structure and Binding Mode Analysis of Human S-Adenosylhomocysteine Hydrolase Complexed with Novel Mechanism-Based Inhibitors, Haloneplanocin A Analogues,” K. M. Lee, W. J. Choi, Y. Lee, H. J. Lee, L. X. Zhao, H. W. o Lee, J. G. Park, H. O. Kim, K. Y. Hwang, Y. Heo, S. Choi^{*}, and L. S. Jeong^{*}, *J. Med. Chem.* **2011**, *54(4)*, 930-938.
 - ◆ “Structural insights into transient receptor potential vanilloid type 1 (TRPV1) from homology modeling, flexible docking, and mutational studies,” J. H. Lee, Y. Lee, H. C. Ryu, D. W. Kang, J. Lee, J. Lazar, L. V. Pearce, V. A. Pavlyukovets, P. M. Blumberg, S. Choi^{*}, *J. Comput. -Aided Mol. Des.* **2011**, *25(4)*, 317–327.
 - ◆ “In silico classification of adenosine receptor antagonists using Laplacian-modified naïve Bayesian, support vector machine, and recursive partitioning,” J. H. Lee, S. Lee, and S. Choi^{*}, *J. Mol. Graph. Model.* **2010**, *28*, 883–890.