



ISCB AWARD FOR EXCELLENCE 2009

In the area of

CHEMICAL SCIENCES (International Category)



Institut für Organische Chemie, Universität Karlsruhe (TH)

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Prof. Dr. Stefan Bräse

Scientific and Professional Career

January 15 2003 to present	Universitätsprofessor (C4) (Full Professor) Universität Karlsruhe (TH)
August 2002	Offered a C4-Professorship to the Universität Karlsruhe (TH) (Lehrstuhl I Organische Chemie, successor of H.-J. Knölker)
July 2001 to January 2003	Professor at the University of Bonn, Germany
April 2001	Offered a C3-Professorship to the University of Bonn, Germany (Successor of E. Steckhan)
February 2001	Offered a chair for organic chemistry at the Vrije University of Amsterdam, The Netherlands (Successor of L. Wessjohann), declined
February 2001	Offered a C3-Professorship to the Technical University Darmstadt, Germany (Successor of H. Mayr), declined
October 1997 to June 2001	Habilitation (lecturer), RWTH Aachen, Germany, Prof. D. Enders
May 1996 to September 1997	Postdoctoral fellowship, The Scripps Research Institute, La Jolla, USA, Prof. K. C. Nicolaou (<i>Total synthesis of vancomycin</i>)
December 1995 to Feb. 1996	Postdoctoral fellowship, University of Uppsala, Sweden, Prof. J.-E. Bäckvall
November 9 1995	Dissertation (Prof. A. de Meijere), Göttingen, Germany, <i>summa cum laude</i>
April to June 1993	Faculté des Sciences de St. Jérôme, Marseille, France, Prof. Dr. B. Waegell
October 23 1992	Diplomhauptprüfung, Prof. de Meijere, Göttingen, Germany
October 1988 to October 1992	Chemistry studies at the Georg-August-Universität Göttingen, Germany and

Description of scientific achievements

Over the last ten years, he worked successfully on the total synthesis of various natural product classes. While working as a post-doctoral fellow on the total synthesis of glycopeptide antibiotics, his independent work focused on cannabinoids and mycotoxins.

In the field of novel cannabinoids, his team developed new strategies using organo-catalytic method for the generation of the tricyclic system.

In the field of mycotoxin research, his group tackles the complex class of secalonic acid-type xanthenes and completed for the very first time the total synthesis of members of this class – Diversonol and Blennolide C (E. M. C. Gérard, S. Bräse, *Chem. Eur. J.* **2008**, *14*, 8086-8089; C. F. Nising, U. K. Ohnemüller, S. Bräse, *Angew. Chem. Int. Ed.* **2006**, *45*, 307-309; *Angew. Chem.* **2006**, *118*, 313-315; N. Volz, M. C. Bröhmer, S. Bräse, *Synlett* **2009**, in press.). In collaboration with food chemists his group elucidated the origin of toxicity of this class of mycotoxins.

Epithiodiketopiperazines are another class of interest and his group presented novel approaches to this fascinating class of compounds. While the total syntheses of virantmycin (D. Keck, S. Vanderheiden, S. Bräse, *Eur. J. Org. Chem.* **2006**, 4916-4923) and other alkaloids (C. Gil, S. Bräse, *Chem. Eur. J.* **2005**, *11*, 2680-2688) were completed, other compounds such as fumimycin and plakotenin are close being finished by his group.

Triggered by method development, other natural products were synthesized, e. g. calamenes (K. C. Nicolaou, R. Reingruber, D. Sarlah, S. Bräse, *J. Am. Chem. Soc.* **2009**, *131*, 2086-2087) Stefan Bräse is a highly regarded scientist worldwide, whose expertise is often in demand. He is invited to various conferences as a plenary speaker and is on the advisory board of several journals, among which, for many years, is the “Journal for Combinatorial Chemistry” of the American Chemical Society.

His publications on natural product chemistry, combinatorial chemistry and solid-phase synthesis have been repeatedly honored, for example, with the OrChem Prize and the Lilly-Lecture Award. He has received a high number of grants, the most recent being the Liebig Scholarships from the “Fonds der Chemischen Industrie”.

As a member of the Helmholtz program „BioInterfaces“ Stefan Bräse will be responsible for the planned “KIT Combinatorial Chemistry Platform”. High-throughput methods will be established at the KIT for the generation of small molecular entities including natural products with the aid of automated and miniaturized synthesis.

List of publications : 150 peer-reviewed articles

H-index of 32 Citation: 2000 time



Prof. Anil Kumar Singh, Ph.D. F.M.A.Sc., F.A.Sc., F.N.A.Sc. (b. 1952, Bansgaon-Gorakhpur, U.P., India) is currently the Senior-most Professor in the Department of Chemistry at the Indian Institute of Technology (IIT) Bombay. He also holds the positions of Associate Faculty in the School of Biosciences & Bioengineering, and the Convener, IIT Gandhinagar (Gujarat) Cell at IIT Bombay.

CHEMICAL SCIENCES
Prof Anil Kumar Singh
IIT Bombay

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Post-Doctoral Research:

1978: Florida State University, Tallahassee, 1979 :University of Hawaii, Honolulu ,
1981: Columbia University, New York

Professional Experience

1990 - Professor, I.I.T, Bombay
1993 - Head, Chemistry Department, I.I.T, Bombay
2002 - Director, Regional Research Laboratory (CSIR), Jorhat
2004 - Dean, Academic Programs, I.I.T, Bombay
2007 - Vice Chancellor, Bundelkhand University

Supervised: 17 Ph.D. students and over 45 Masters level thesis

Published : >100 Papers and reviews

Prof. Singh has graduate/postgraduate level teaching experience of over 26 years. He primarily offers courses in the area of basic organic chemistry/bioorganic chemistry/synthetic chemistry/organic photochemistry/physical organic chemistry/natural products/organic reaction mechanisms/biomolecular chemistry, etc. He leads a multidisciplinary research programme cutting across many sub-disciplines of chemical and biological sciences.



Head and Dean of faculty of Science, Lucknow University Lucknow, UP

CHEMICAL SCIENCES

Prof V.K.Tandon

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Post Doctoral Visits and Position Held

1978-79: SRC, Post Doctoral Research, Robert Robinson Laboratories, University of Liverpool, UK,
1981-83: SRA, University of Groningen, Groningen, Holland
2002, 2003: Visiting Professor University of Rogensburg, Germany
1995-Till date Department of Chemistry, Lucknow University Lucknow
Jan.2008, Head of Chemistry Department, Lucknow University Lucknow
Jan.2008, Dean of faculty of Science, Lucknow University Lucknow

Paper Published: >68

Field of Interest: Heterocyclic Chemistry(Medicinal Chemistry)

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In the area of

Biological Sciences



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National Institute of Pharmaceutical Education and Research (NIPER)Sector 67,

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Professional Experience

1990-95 Banaras Hindu University, Varanasi, Reader

1989-90 Beth Israel Hospital and Harvard Medical School, Boston USA, Research Associate

1987-89 University of Illinois Chicago, USA, Research Associate

1980-87 Banaras Hindu University, Varanasi, Lecturer

1979-80 Analytical Test Services, New Delhi, Pharmacologist

Professional Interest

Opioid tolerance and dependence mechanisms; Characterization of angiotensin receptors and alpha-adrenoceptors and their transmembrane signal mechanisms in diabetic and hypertensive state.

Papers 100 Patents 09

SIGNIFICANT RESEARCH CONTRIBUTION

Receptor Characterization & Transmembrane Signaling

General Pharmacology:

Characterization of pre- and post-synaptic α -adrenoceptors with various techniques viz., pD₂, pA₂, Arunlakshana Schild plots, KA values of antagonists, receptor occlusion, spare receptors, receptor occupation and response relationships were established *in vitro* (*Eur J Pharmac* 2002 **453**, 335-344).

Biochemical Pharmacology:

OPIOID BASIC MECHANISMS:

The mechanisms involved in the opioid tolerance and dependence to have a basis of the rationale drug therapy, the opioid receptor characteristics and their regulation vis-à-vis other neurotransmitters and neuromodulator sites were studied using various pharmacological and physiochemical methods of analysis.

ISCB AWARD FOR EXCELLENCE 2009

In the area of

Drug Research



Prof V. S. Parmar

Head

Department of Chemistry University of Delhi Delhi-110 007.

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Research Interests / Specialization

Organic Chemistry

Areas of research interest:

Medicinal chemistry, Bio-organic Chemistry, Enzyme Assisted Reactions, Nanotechnology and Polymer Synthesis.

Brief Profile of Professor Virinder Parmar

Professor Virinder Parmar, born on 2nd November 1948 at Allahabad (India), did B.Sc. Honours (1968), M.Sc. (1970) and Ph.D. (1978) from the University of Delhi. He has Postdoctoral / Visiting Scientist research experience of nearly ten years at Cornell University, Harvard University, University of Massachusetts Lowell, Polytechnic University and MIT (USA); University of Basel (Switzerland); Imperial College of Science, Technology and Medicine (London) and University of Warwick (UK), and the University of Southern Denmark. He has been a faculty at the University of Delhi for the past 24 years, currently he is Full Professor and Head of the Department of Chemistry, and Chairman of Board of Research Studies at this University. He is a Visiting Full Professor at the Institute of Nano Science Engineering and Technology, University of Massachusetts Lowell (USA) since March 2001. He has been appointed as Visiting Full Professor (Adjunct Professor) at the University of Southern Denmark for the period April 2008 – March 2013.

Professor Parmar's research interests include: Nanotechnology, Synthetic Organic Chemistry, Biocatalysis, Polymer Chemistry, Nucleic Acid Chemistry, Medicinal Chemistry, Green Chemistry, Advanced Materials and Chemistry of Natural Products. He has supervised the work of forty students for the award of PhD and that of fourteen students for the award of MPhil degrees, and has published three hundred and thirty nine research papers in international journals of repute in addition to being co-inventor on ten US and Indian patents.

He has handled twenty seven research projects involving grants of nearly US Dollars 4.04 Million from various agencies in USA, UK, Germany, Denmark, Russia, France and India in international collaboration with twenty six research groups in USA, UK, Russia, Italy, India, Germany, France, Denmark and Belgium.

He has delivered Invited / Plenary Lectures at 100 International Conferences/ Symposia/Seminars/Workshops and has lectured at 243 Institutions in twenty five Countries across the Globe. He has been on the Editorial Boards of several journals, to name a few – ChemSusChem, Mendeleev Communications, Indian Journal of Chemistry, Natural Products Communications, and

Biocatalysis and Biotransformation. He has been recognized with many awards and fellowships, most recent one has been the Chemical Research Society of India (CRSI) medal and Honorary Professorship at the University of Southern Denmark. He is a regular reviewer for several journals published by the American Chemical Society, the Royal Society of Chemistry (London), Elsevier Publications, etc., and is a member of the IUPAC Organic and Biomolecular Chemistry Division's Subcommittees on Biomolecular Chemistry and Green Chemistry.