

CV of Rajni Hatti-Kaul

Born July 1959. Married, one child.

Swedish.

Department of Biotechnology, Center for Chemistry & Chemical Engineering, Lund University, Box 124, S-221 00 Lund, Sweden

Telephone: int+46-46-222 4840; Telefax: int+46-46-222 4713; E-mail: Rajni.Hatti-Kaul@biotek.lu.se

1. Ph.D in Biochemistry, 1984, Immobilized two-enzyme system for lactose hydrolysis and preservation of milk. University of Bombay, India

2. Post doc, 1985-1987, Department of Biotechnology, Lund University, Sweden.

3. Docent 1994

4. Current employment

Professor in Biotechnology, Lund University (permanent position since 2004); also Head of the Department of Biotechnology since November 2006

5. Earlier employment

1988 - 1990: Scientist at ASTRA Research Centre India, Bangalore, India.

1990 - 1997: Research Scientist (forskarassistent) at the Department of Biotechnology, Lund University

1997- Senior lecturer/Associate Professor (lektor).

2000 Appointed as senior lecturer with a profile in biotechnology research for developing countries

6. Maternal leave 1991-1992

7. Doctoral students

Maria Andersson (passed 1999)

Sheryl Fernandes (passed 2001)

Rita Martins (passed 2003)

Shahzad Bakhtiar (passed 2004)

Jorge Quillaguaman (passed 2005)

Pär Tufvesson (passed 2008)

Ulrika Törnvall (passed 2009)

Thuoc Van Doan (passed 2009)

Hector Guzman (passed 2010)

8. Current funding

Mistra, Vinnova, Swedish Research Council (VR) and Sida

9. Teaching experience (1990 - to date).

- Teaching courses in Biochemistry, Biotechnology, Bioseparations, and Enzyme Technology at undergraduate and graduate level at Lund University.

- Co-supervisor of Dong Guoqiang (passed 1994), Hakon Birgisson (passed 2004), Suhaila Hashim (passed 2004), Virginia Vargas (passed 2005), Cecilia Orellana-Coca (passed 2006), Gashaw Mamo (passed 2006)
- Currently main supervisor of 3 Ph.D. students and co-supervisor of 5 students at Lund University.
- Training of researchers from developing countries.

10. Research activities (1990 - to date) have been in the following areas.

- Biotechnology for the production of “green” chemicals from renewable resources
- Extremophilic microorganisms and their products – enzymes and biodegradable polymers
- Use of immobilized biocatalyst technology for bioconversions
- Downstream processing of proteins
- Stabilization of proteins during use and storage for therapeutic and diagnostic proteins, understanding of mechanisms underlying stabilization

11. Publications: 113 Papers; 5 Reviews; 24 Book chapters; 13 Conference Proceedings; 2 edited books

12. Commissions

- Board member of the Institute of Chemistry, Lund University 2006-2008
- Member of *forskningsberedning* at LTH 2006-2008
- Member, Editorial board of the journal, *Molecular Biotechnology* 2000-2007
- Member of the Peer Review College of the Danish Council for Strategic Research
- Reviews of research proposals to Austrian Science Fund, ERA-IB, Danish Council for Strategic Research, Cariplo Foundation, Italy
- Reviews of papers submitted to Trends in Biotechnology, Tissue Engineering, Biotechnology and Bioengineering, Applied Microbiology and Biotechnology, Bioprocess and Biosystems Engineering, Molecular Biotechnology, Journal of Biotechnology, Journal of Molecular Catalysis – Enzymatic, Journal of Chromatography, etc.
- Served as an external examiner for 1 PhD defence at Technical University of Denmark (2006); 1 PhD defence at Copenhagen University (2009); PhD theses from Indian Institute of Technology, Delhi (1996); University of Jaffna, Sri Lanka (1996); Universiti Putra Malaysia, Malaysia (2010); University of Pune, India (2010); 1 licentiate thesis at Lund University in 2000; and for Master theses from Lund University (2003), University of Jaffna (1992) and University of Nairobi (2001)
- Served as a member of the examination board for the defence of 12 PhD defence since 1996

13. Award

Swedish Chemical Engineers Association award for 2010 for contribution in green chemistry

14. Dissemination and applications of research results

- Co-organised an *International Conference on Biotechnology for Sustainable Development – Green Chemicals and Materials, Biorefinery, Bioenergy, Clean Water*, Pune, India, 7-9 January 2008

- Organised a symposium on *Industrial Biotechnology – Creating a Paradigm Shift for the Production of Chemicals*, Malmö, Sweden, 8 October 2008
- Organised a conference on *Industrial Biotechnology – a platform for sustainable growth in Sweden*, Lund, Sweden, 8-9 November 2010
- Invited lectures in Sweden and abroad
- Given interviews for newspapers, science magazines, university magazines, radio and TV