

Dr. NIHAR RANJAN SINGH

Lecturer in Botany

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Education and Research Experience

- **2010-Contd. – Lecturer in Botany at Ravenshaw University, Cuttack**
- **2009-2010 – Postdoctoral researcher in physiological sciences**
Stellenbosch University, South Africa.
- **2005-2008 – PhD in molecular biology and biochemistry**
Université de la Réunion, Faculté des Sciences et de Technologie, Laboratoire de Biochimie et Génétique Moléculaire, France
- **2004-2005 – Post Graduate Diploma in Bioinformatics and Applied Biotechnology**
Institute of bioinformatics and applied biotechnology, Bangalore, India
- **2001-2003 – Master degree in Science in Botany, specialization in Biochemistry**
Ravenshaw autonomous college, Cuttack
- **1998-2001 – Bachelor in Science**
Christ College, Cuttack under Utkal University

Publications

1. **Singh, N.R.**, Rondeau, P., Hoareau, L., Bourdon, E. (2007) “*Identification of preferential protein targets for carbonylation in human mature adipocytes treated with glycated albumin*”
Free Radic Res. 2007; 41(10):1078-88.
2. Roche, M., Rondeau, P., **Singh, N.R.**, Tarnus, E., Bourdon, E. (2008) “*The antioxidant properties of serum albumin*”
FEBS Lett. 2008 Jun 11; 582(13):1783-7.
3. Rondeau, P., **Singh, N.R.**, Caillens, H., Bourdon, E. (2008) “*Oxidative stresses induced by glycated human or bovine serum albumin on Human monocytes*”
Free Radic Biol Med 45:799-812.
4. **Singh, N.R.**, Rondeau, P., Bourdon, E. (2009) “*Identification of up-regulated low molecular weight proteins in human adipocytes treated with glycoxidized albumin*”
The Open Obesity Journal, 2009, 2, 00-00

Posters

1. **Singh N R.**, Tarnus E., Roche M., Rondeau P., Bourdon E. (2008). "Glycoxidized albumin induced carbonyl modification of preferential protein targets in human mature adipocytes" 7th International Conference of the Society for Free Radical Research-Africa, 14-17 July 2008, Mauritius
2. Rondeau P., Armenta S., **Singh N.R.**, Caillens H., Bourdon E. (2007). "Analyses of structural changes in native and glycated albumin by FTIR and PAGE: relations with modified antioxidant and cellular effects of the protein" International workshop on infrared spectroscopy applied to biological and biomimetic systems – from the isolated molecule to the cell – Buenos Aires, Argentina, 5–7 November 2007.
3. Roche M., Tarnus E., **Singh N.R.**, Rondeau P., and Bourdon E. (2007). "Effects of nutritional antioxidants on oxidative stress in obesity-induced diabetes." 2nd world congress prevention / therapies against obesity: innovations and perspectives, June 2007, Paris, France

Seminar and Workshop attended

- Workshop attended on "Bioinformatics and its application" from IIT, Kharagpur. 26 - 27 September 2003
- "Seminar on Recall of Memory in Human Brain" by Prof. Susumu Tonegawa MIT USA, winner of Nobel Prize in Physiology or Medicine 1987. at N.C.B.S/T.I.F.R Bangalore on March 18th, 2004
- Seminar on "microRNAs in inflammation and cancer" by Dr. David Baltimore, winner of Nobel Prize in Physiology or Medicine 1975." at JN Tata Auditorium, IISc Bangalore on January 16th, 2007
- Workshop attended on "Fluorescence Live Cell Imaging" at Central Analytical Facility, Stellenbosch University, South Africa. 23 - 24 April 2009
- Attended summer school on "Advanced Biochemistry and Molecular Diagnostic Techniques" at Madurai Kamaraj University on 18th June – 2nd July, 2010

Awards and Membership

- Awarded in recognition of excellence in poster presentation at 7th International Conference of the Society for Free Radical Research-Africa, 14-17 July 2008, Mauritius
- Member of Société Française de Biochimie et Biologie Moléculaire (SFBBM)
- Awarded Réunion regional council fellowship for doctoral studies
- Qualified the Council of Scientific & Industrial Research CSIR/UGC NET (Lectureship), India
- Gold medal for the best science graduate of the college
- Got first prize for various inter-college quiz competitions