

Curriculum Vitae



Dr. Bairagi Charan Mallick

Lecturer, Department of Chemistry
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Professional Experience:

- 2010 - till date** : **Lecturer in Chemistry**
Department of Chemistry
Ravenshaw University, Cuttack-3, Odisha
- 2007 -2010** : **Postdoctoral Researcher**
School of Biological Sciences and Institute of Microbiology
Seoul National University, Seoul, South Korea

Education:

- 2002 - 2007** : **Ph.D. in Biothermodynamics and Biophysical Chemistry**
Department of Chemistry, IIT Bombay, India
- 1997 - 1999** : **M.Sc., Advance Physical Chemistry, Ravenshaw University,**
Cuttack-3, Odisha, India
- 1994 - 1997** : **B.Sc., Chemistry (Hons), Ravenshaw University, Cuttack-3,**
Odisha, India

Area (s) of specialization:

My research interests encompass multidisciplinary topics based on the collective understanding of the structure, function and interaction of metalloproteins and drug resistance proteins. The major interest is to answer general questions on multidrug-resistance proteins in *Mycobacterium tuberculosis* and *Salmonella Typhimurium* using molecular, biophysical and crystallographic approaches.

Publications:

1. **Bairagi C. Mallick** and Nand Kishore, Partial molar volumes of some alpha-amino acids in aqueous magnesium sulfate solutions at 298.15 K, *J. Solution Chem.*35 (2006) 1441-1451.
2. **Bairagi C. Mallick**, Ji-Sun Kim and Sa-Ouk Kang, Ca²⁺-binding induces conformational stability of CAF-1 from *Dictyostelium discoideum*. (*submitted*)
3. **Bairagi C. Mallick**, Ji-Sun Kim and Sa-Ouk Kang, Conformational stability of Ca²⁺-dependent cell-cell adhesion molecule DdCAD-1 from *Dictyostelium discoideum* (*to be submitted*)

4. Han-Bong Ryu, Sung-Hyun Song, Hyung-Soon Yim, **Bairagi C. Mallick**, Min-Kyu Kim, Jin-Won Lee and Sa-Ouk Kang, Sporulation by hydrogen peroxide and manganese ion in *Bacillus subtilis*.(to be submitted)

Conference Presentations:

International

1. **Bairagi C. Mallick**, and Nand Kishore, "Thermal stabilization of partially folded states of proteins by osmolytes: Energetics and conformational studies", 2nd International Symposium on Calorimetry and Chemical Thermodynamics, Estancia de Sao Pedro, SP, Brazil, April 9-13, 2006.
2. **Bairagi C. Mallick**, Ji-Sun Kim, and Sa-Ouk Kang, "Conformational stability and folding of calcium-binding protein from *Dictyostelium discoideum*", 33rd FEBS Congress and 11th IUBMB Conference, Athens, Greece, June 28- July 3, 2008.
3. **Bairagi C. Mallick**, Ji-Sun Kim, and Sa-Ouk Kang, "Ca²⁺-Binding Protein Calfumirin-1 and the Phase Transition in *Dictyostelium discoideum* Cells from Growth to Differentiation", MSK's 50th Anniversary International Symposium on Microbiology 2009, May 28-30, 2009 Jeju Island, Korea.

National

1. **Bairagi C. Mallick**, and Nand Kishore, "Thermal stabilization of partially folded states of proteins by osmolytes: Energetics and conformational studies", Professor Ram Chand Paul 1st National Annual Symposium on Recent Trends in Chemistry, Department of Chemistry, Panjab University, Chandigarh, February 25-26, 2006.

Honors and Fellowships:

- 2007 -2010 : Korean Research Foundation, **Brain Korea-21 Postdoctoral Fellowship** Seoul National University, Korea
- 2004-2007 : Awarded **Senior Research Fellow (SRF)** sponsored by CSIR, Govt. of India, New Delhi, India
- 2002-2004 : Awarded **Junior Research Fellow (JRF)** sponsored by CSIR, Govt. of India, New Delhi, India
- 2000-2001 : Graduate Aptitude Test in Engineering (**GATE-2000**)

Membership in Professional Bodies:

- 2006 – Present : Member of Biophysical Society, USA.
- 2005 – Present : Member of Protein Society, USA.