

Dr. Chandraprabha M N

Professor and Head

Department of Biotechnology

M. S. Ramaiah institute of Technology

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Education

- 2007 **Ph. D. (Biomaterials Engineering)**, *Indian Institute of Science.*
- 2001 **MSc (Engg) (Biochemical Engineering)**, *Indian Institute of Science.*
- 1997 **B.E (Chemical engineering)**, *MSRIT, Bangalore University.*

Experience

- Aug 2017 -
Present **Professor,**
 Department of Biotechnology,
 M. S. Ramaiah Institute of Technology, Bangalore.
- Oct 2009-
July 2017 **Associate Professor**
 Department of Biotechnology,
 M. S. Ramaiah Institute of Technology, Bangalore.
- Feb 2007-
Sept 2009 **Assistant Professor,**
 Department of Biotechnology,
 M. S. Ramaiah Institute of Technology, Bangalore.

Ongoing External Funded Projects

1. Design of structurally modified nanoceria with enhanced haloperoxidase activity to combat sulphate reducing bacteria (SRB) induced biocorrosion: A biomimetic approach to combat Microbiologically-Influenced Corrosion (MIC) of marine structures **(41.84 lakh)**
DST SERB CRG (CRG/2020/002152/MMM)
2. Designing of Novel Biocompatible and Multifunctional Nano Ceramic Coatings for Medical Implants. **(30 lakh)**
VGST-K FIST L2 (/GRD-863/2-19-20/2020-21/198)
3. Enhanced production of Indican (Precursor of indigo dye) from cell suspension culture of *Indigofera tinctoria* and its up-scaling through bioreactor. **(24.7 lakhs)**
DST (WOS-B Scheme) (SR/WOS-B/739/2016)

External Funded Projects Completed

1. Development of a demonstration anaerobic digester for treatment of sulphate-rich mine water using biological sulphate reduction technology.
DST SERC Scheme ((SR/S3/ME/0008/2009), 2009–2012, 29.73 lakhs
2. Bioremediation of arsenical mine wastes by *Acidithiobacillus ferrooxidans*: A lab based study
VTU (VTU/Aca. /2009-10/A-9/11719), 2010–2013, 7.75 lakhs
3. Decontamination of arsenic by *Desulfovibrio sulfuricans* in a lab-scale anaerobic digester
AICTE - CAYT (1-51/RID/CA/24/2009-10), 2010–2013, 10.5 lakhs
4. Development of an extraction process to increase the yield of natural indigo dye from *Indigofera tinctoria*: Increasing profit margins and promoting the use of natural dye among traditional Ilekai artisans in Karnataka. (Under WOS A Scheme)
DST-NSAI (NASI/SoRF - I/2014-15 /53), 2015-2016, 3.256 lakhs.

Thesis/Project Guidance

- PhD Guidance - Completed : 3
- Under progress : 4

Awards and Recognitions

- Listed in AD scientific ranking list of 2021
- 'AWARD FOR EXCELLENCE IN RESEARCH-2019', Ramaiah Institute of Technology, Bangalore, India.
- 'BEST PAPER AWARD', International Conference on Smart Engineering Materials, India, 2016.
- 'CAREER AWARD FOR YOUNG TEACHERS' – 2010, AICTE.
- Shortlisted for "INAE YOUNG ENGINEER AWARD – 2009".
- 'INSA SUMMER RESEARCH FELLOWSHIP-2009'- Indian National Academy of Sciences.
- 'BEST PROJECT OF THE YEAR AWARD' by KSCST during Sep' 2008.
- Visiting research scholar at COLUMBIA UNIVERSITY, NEW YORK, to carry out research work on Indo-US project jointly funded by DST-NSF (Scheme No: DST/MMT/KAN/505).
- Fellowship from the French government under CEFIPRA & 'Institut de Recherche pour le Developpement' (IRD)-France (Indo-French Water Science Cell) to undergo a high level scientific training at CNRS, HENRY POINCARÉ UNIVERSITY, NANCY, FRANCE during May-July' 2003.
- International Student Bursary Award – 2005, by IBS to attend the International Biohydrometallurgy Symposium (IBS-2005) at Cape Town, South Africa.
- Travel grants from DST & AICTE to attend International Conferences at Cape Town, South Africa (2005), Frankfurt, Germany (2007), Argentina, South America (2009), Rimini, Italy (2010), Daegu, South Korea (2012).
- University II Rank (Chemical Engineering, Bangalore University) – 1997

Overseas Visits / Fellowships

Fellowships

- May – Sep' 2004: Visiting Research Scholar at Columbia University, New York, to carry out research work on Indo-US project jointly funded by DST-NSF (Scheme No: DST/MMT/KAN/505).
- May – July' 2003: Fellowship from the French government under CEFIPRA & 'Institut de Recherche pour le Developpement' (IRD)-France (Indo-French Water Science Cell) to undergo a high level scientific training at CNRS, Henry Poincare University, Nancy.

International Conferences

- 16-21 Sep' 2012: Presented research paper on "Antimicrobial applications of gel-embedded silver nanoparticles synthesized using phytoconstituents" at International Biotechnology Symposium, Sep 2012, South Korea (Financial grant by AICTE).
- 14-18 Sep' 2010: Presented research paper on "Bioremoval of Arsenate Ions by Acidithiobacillus Ferrooxidans" at 14th International Biotechnology Symposium (IBS-2010), Italy (Financial grant by AICTE).
- 13-17 Sep' 2009: Presented research paper on "Imaging and analysis of AFM curves on Acidithiobacillus ferrooxidans", at 18th International Biohydrometallurgy Symposium (IBS-2009), Argentina (Financial grant by DST).
- 2-5 Sep' 2007: Presented research paper at 17th International Biohydrometallurgy Symposium (IBS-2007), Frankfurt, Germany (Financial grant by TEQIP).
- 25-29 Sep' 2005: Presented research paper at 16th International Biohydrometallurgy Symposium (IBS-2005), Cape Town, South Africa (Financial grant by DST & International Student Bursary Award).

Professional Society Membership

- Life member, Indian Institute of Chemical Engineers, IChE(LM-34283)
- Life member, Indian Society for Technical Education, ISTE(LM-57852)
- Life member, Society for Biological Chemist (India) (LM- 4245)
- Life member, Materials Research Society (India) (LMB-3086)

Reviewer

Scientific reports, Materials Letters, Biotechnology & Bioengineering, Colloids & Surfaces B: Biointerfaces, Environmental Science & Technology, Chemical papers, International Journal of Mineral Processing,

Details of Research publications (Annexure I)

- No. of papers published in SJR/SCI/WoS/Scopus Indexed International Journals: **56**
- No. of book chapters published: **7**
- No. of papers in International conference proceedings: **15**