

CV of Professor D. Mal, PhD (Missouri, USA)



Dipakranjan Mal attended R. K. Mission Vidyamandira, Belur Math, and Science College, Kolkata for his **BSc-Hons (1972, 1st class, college topper)** and **MSc (1974, 1st class, 5th/>100)** degrees, respectively from the Calcutta University. He completed his **PhD degree (1981, GPA = 4/4)** under Prof. L. L. McCoy at the **University of Missouri-Kansas City**. He was felicitated by “**The Honor Society of Phi Kappa Phi**”, USA for his **academic excellence**. After the postdoctoral stint (1981-1984) with Prof. F. M. Hauser at the Oregon Graduate Center, USA, he joined Bose Institute, Kolkata as a lecturer in 1984. Since early **1987**, he has been with IIT Kharagpur, where he is now a **HAG professor**. For the period **2011-14**, he served as the **head of the department**.

He has supervised **27 doctoral students** for PhD degrees and **50 masters’ students**, and published over **120 research publications**, which include **2 reviews in Chemical Reviews (2015 Impact Factor is 37.369)**.

His independent research is focused on the **strategic applications of anionic and thermal domino strategies in the total synthesis of natural products**. One of his syntheses in the field of carbazole alkaloids has been recognized as “**Mal synthesis**.” His group has discovered three important reactions, namely, i) a demethoxycarbonylative annulation, ii) an anionic [4 + 3] annulation and iii) an olefination based upon thiophthalides.

AWARDS and RECOGNITIONS

- Fellow of the Royal Society of Chemistry, UK (2013)
- Prof. R. K. Baruah Lecture, Gauhati University (2014)
- Fellow of West Bengal Academy of Science and Technology (2012)
- Phi Kappa Phi honor certificate, University of Missouri, USA (1978)
- Gold medal and L. Mitra prize of R K Mission Vidyamandira, Belur Math (1973)
- **His work is cited in 32 books.**
- **His work has found a place in courses taught at the Harvard University and the University of California Davis.**

RESEARCH and PUBLICATIONS:

- Publications: **120**
- PhD thesis mentored: **27** (8 of them are under joint supervision)
- MSc thesis mentored: **50**
- **h-index = 23; Citations = 1554; 1240** (without self-citations) taken from web of science in May, 2016.

RESEARCH GRANTS (1988-2018): Uninterrupted funding amounting to 2.76 crores (plus 8 crores external funding as HoD).

TEACHING (Courses): Taught more than 10 different courses

Video Course: - Heterocyclic Chemistry (40 lectures): > 15500 views since 2014.

PROFESSIONAL LECTURES (2007-2016):

He has lectured widely in academic establishments and at many national and international meetings. His favorite topics are total synthesis of quinonoid, phthalide and carbazole natural products, annulations, organolithiums and heterocycles.

IIT Bombay (2009), IIT Guwahati (2007 and 2013), IIT Kanpur (2008 and 2014), Indian Chemical Society (2008 and 2011), Kalyani University (2009), Vidyasagar University (2011), Burdwan University (2011, 2013, 2015), Institute of Chemical Technology Mumbai (2013), Gauhati University (2014), Indian School of Mines Dhanbad (2014), ACS on Campus, IITKGP, North Bengal University (2014), Presidency University (2015), West Bengal DST conference, NBU (2015), National Symposium on Natural Products (Tripura Univ.), Viswa Bharathi University (2016), Syngenta, Goa (2016, to be delivered).

Institutional Activities

- **President, IIT Teachers' Association, 2006-2007**
- **Chairman, Campus Schools, 2006-2013**
- Coordinator, **National MSc Entrance Test, IIT Kharagpur, 1999-2000**
- **Head Examiners: IIT-JEE, GATE and JAM (10+ times)**
- Coordinator, Technical staff selection (3+ times)

Selection (of faculty, fellowship etc.) committee member:

Fulbright Fellowship of India, Commonwealth Fellowship of India, IIT Patna, NIT Allahabad, NIT Jamshedpur, NIT Sikkim, Jadavpur University, North Bengal University, Gauhati University, IPE, etc.

Current Research Group:

Dr. R. Talukdar (PDF)

Mr. S. Basak (SRF)

Mr. S. Chakraborty (SRF)

Ms. S. Jana (SRF)

Mr. B. Ghosh (SRF)

Mr. B. Roy (SRF)