



## **Dr. PRABIR KUMAR SEN, WBES**

**Designation in (subject): Associate Professor & Head, Department of Chemistry**

Darjeeling Government College, Darjeeling. West Bengal

**Highest qualification:** M. Sc, Ph.D. (Synthetic Organic Chemistry)

**Contact details/ Office address:** Paste passport size photograph

**Vidwan ID :** Vidwan ID: 492841

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**Date of joining to this institution:** 01.08.2018.

**Date of joining W.B.E.S.:** 01.10.2002.

**Previous position(s) held/ Additional charges:**

1. **Govt. College of Education, Banipur :** 01.10.2002 to 8.08.2004.
2. **Haldia Govt. College, Haldia:** 09.08.2004 to 31.07.2009.
3. **Barasat Govt. College, Barasat :** 01.08.2009 to 31.07.2018.
4. **Darjeeling Govt. College :** 01.08.2018 to till date.

**Teaching experience in years & months:** 22 Years.

**Fellowship, Awards, Recognition and Honours (if any):**

1. **CSIR Junior Research Fellowship 1999.**
2. **CSIR Junior Research Fellowship 2001.**

**Courses taught:** In the UG level, my teaching courses include carbonyl chemistry and different methodologies for the C-C bond making, organometallic compounds, heterocyclic compounds, carbohydrates, terpenoids, alkaloids and reaction mechanism. I have taught retro-synthetic analysis, use of reagents and synthesis of natural products as well as supra-molecular chemistry in the PG level.

**Research area/ interest:** Being a synthetic organic chemist, especially from the field of total synthesis, my preferred area of teaching are synthesis of natural products and developments of new methodologies.

### List of publications:

- 1. 'Bargellini condensation of coumarins. Expeditious synthesis of *o*-carboxyvinylphenoxyisobutyric acids.' **Prabir K. Sen**, Bidyut Biswas and Ramanathapuram V. Venkateswan, *Tetrahedron Letters*, **2005**, **46**, 8741-8743.
- 2. 'Synthesis of heliannuol C, an allelochemical from *Helianthus annuus*.' Bidyut Biswas, **Prabir K. Sen** and Ramanathapuram V. Venkateswaran. *Tetrahedron Letters*, **2006**, **47**, 4019-4021.
- 3. 'Synthesis of heliannuol B, a allelochemical from *Helianthus annuus*' Amallesh Roy, Bidyut Biswas, **Prabir K. Sen** and Ramanathapuram V. Venkateswaran. *Tetrahedron Lett.* **2007**, **48**, 6933-6936.
- 4. Bargellini condensation of coumarins. Expeditious route to *O*-Carboxyvinylphenoxyisobutyric acids and application to the synthesis of sesquiterpenes Helianane, Heliannuol A and Heliannuol C, Bidyut Biswas, **Prabir K. Sen** and Ramanathapuram V. Venkateswaran. *Tetrahedron*. **2007**, **63**, 12026-12036.
- 5. Bargellini condensation Reaction - **Prabir K. Sen** . *Acad. J. Aureole*, 20011, 3(2), 108-113. [ISSN-0976-9625]
- 6. Application of Bargellini Condensation reaction: An Approach to Overcome the Heliannuol C synthesis- **Prabir K. Sen** , A. Mondal, S. Muhuri. *Acad. J. Aureole*, 20013, 4, 17-21. [ISSN-0976-9625]
- 7. Allelochemicals-Heliannouls from Sunflower and Their Biogenesis-N. K. Maitra and **Prabir K. Sen**. *A. B. N Seal Journal of Science*, **2014**, vol-VI, issue-1, 67-72 [ISSN-0975-5624].
- 8. An Approach to Overcome the total Synthesis of Helianane- **Prabir K. Sen** . *Acad. J. Aureole*, **2014**, 5(1), 52-58. [ISSN-0976-9625]
- 9. Crude analysis of enzyme amylase isolated from *LICHEN PARMELIA SP.* N. K. Maitra, A. Mukherjee, M. Maitra and **Prabir K. Sen**. *A. B. N Seal Journal of Science*, 2015, vol-VII, issue-1, 71-80. [ISSN-0975-5624].
- 10. Heliannuol-A: Different methodologies for Total Synthesis of the Sesquiterpene- N. K. Moitra and **Prabir K. Sen**, *A. B. N Seal Journal of Science*, 2016, vol-VIII, issue-1, [ISSN-0975-5624].
- 11. An Approach to Overcome the total Synthesis of Heliannane-D- position' **Prabir K. Sen** . (*Acad. J. Aureole*, 2016, 6(1), [ISSN-0976-9625])
- 12. 'Facile partial ring hydrogenation of 2-naphthol derivatives: Rate acceleration induced by an electron withdrawing substituent at the C-1 position' **Prabir K. Sen**. *MAC Science Journal* 2017.
- 13. Synthesis of Heliannuol C-A. Roy, B. Biswas and **Prabir K. Sen**. *Syn. Comm.* 2017. **47**, 1692-1701.

### \*Books/chapters in books etc.:

#### 1. NEET CHEMISTRY: VOL-I (ISBN: 978-81-951941-6-2)

By Dr. K. Pal & **Dr. Prabir Kumar Sen**, Parul Prakashani Pvt Ltd. Kolkata-700 009.

#### 2. NEET CHEMISTRY: VOL-I II (ISBN: 978-81-951941-7-9)

By Dr. K. Pal & **Dr. Prabir Kumar Sen**. Parul Prakashani Pvt Ltd. Kolkata-700 009.

3. Total synthesis of Heliannuol-B: an over view, Prabir K Sen, one article in a book "Modern Trends In Chemical Sciences" ISBN no: 987-93-83010-31-8.2017.

Google Scholar link/ / ORCID ID ((if any) :

ResearchGate link: <https://www.researchgate.net/profile/Prabir-Sen>

### Presentations/ attended in conferences/ workshops/seminars/symposium etc:

1. **National Symposium on Organic Chemistry-III (NSOC-III):** Recent Trends and Perspectives. February 22 & 23, 2006, Jadavpur University. Kolkata.

2. **UGC sponsored National Seminar** on Morden Trends of Research in Chemistry: Scope of inclusion in Under-graduate and Post-graduate Courses. September 7 7 8. 2009. Barasat Govt. College.

**3. Conference on Molecules to materials-** Sponsored by Higher Education Department, Govt. of West Bengal, March 16 & 17. 2011, Haldia Govt. College, Haldia.

**4. UGC sponsored National Seminar** on Recent Development in Bio-active Molecules (RDBAM-2016), August 4 & 5, 2016, Haldia Govt. College, Haldia,

**Details regarding participation in FIP/OP/RC:**

<b>Sl. No.</b>	<b>Programme</b>	<b>Duration</b>	<b>Organized by</b>
1.	Refresher Course in Mordern trends in Chemistry	02.01.2004 to 22.01.2004	Academic Staff College, Jadavpur University
2	Orientation Programme	18.07.2007 to 14.08.2007	Academic Staff College, University of Calcutta
3	Refresher Course in Environmental Science	03.03.2014 to 22.03.2014	Academic Staff College, University of Calcutta
4	Refresher Course in Environmental Science	08.03.2016 to 31.03.2016	Academic Staff College, University of Calcutta

**Academic Membership:**

\*Life Member of **Indian Association for the Cultivation of Science. Kolkata**

\*Member of **Chemical Research Society of India, Bangalore.**

\*Assistant Editor (2009-20018), **Aureole-An Academic Journal: ISSN 0976-9625.**