

1. Name of the faculty  
**Dr. VIVEKANANDA MANDAL**
2. Designation and specialization  
Assistant Professor (Specialization: Pharmacognosy)  
Institute of Pharmacy  
GGU



3. Educational qualification  
M.Pharm (IIT-BHU, Gold Medalist),  
PhD (Jadavpur University, Kolkata)

4. Contact information (Address, email and cell no)  
Quarter No. C-12 (Type III), CIMS Colony, GGU Campus, Koni, Bilaspur 495009  
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5. Date of joining  
02.01.2012

6. Past employment
  - As Assistant professor at Gupta College of Technological Sciences, Asansol, West Bengal.
  - As UGC meritorious Research Fellow for PhD research at Department of Pharmaceutical Technology, Jadavpur University.
  - As Lecturer at NSHM Knowledge Campus, Pharmacy Department, Kolkata.

7. List of publication/patents (National and international)  
**National: 02**  
**International: 16**

- **Vivekananda Mandal**, Yogesh Mohan, Siva Hemalatha. "Microwave assisted extraction of curcumin by sample-solvent dual heating mechanism using Taguchi L<sub>9</sub> orthogonal design". **Journal Pharmaceutical and Biomedical Analysis (Elsevier, Netherlands)**, 46(2): 322-327, 2008 [**Impact Factor: 2.9**]. Cited in Pubmed, Science Citation Index (SCI), JCR, Scopus
- Saikat Dewanjee, **Vivekananda Mandal**, Ranabir Sahu, Tarun K Dua, Ashis Manna, Subhash C Mandal. Anti-inflammatory activity of a polyphenolic enriched extract of *Schima wallichii* bark. **Natural Product Research (Taylor & Francis Group)**, 25(7): 696-703, 2011. [**Impact Factor: 1.0**]. Cited in Pubmed, Scopus
- Saikat Dewanjee, Anup Maiti, Ranabir Sahu, Subhash C. Mandal, **Vivekananda Mandal**. Antidiabetic and Antioxidant Activity of the Methanol Extract of *Diospyros peregrina* (Ebenaceae) Fruit on Type I Diabetic rats. **Pharmaceutical Biology (Taylor & Francis Group)**, 47(12): 1149-1153, 2009. [**Impact Factor: 0.8**]. Cited in Scopus
- **Vivekananda Mandal**, Saikat Dewanjee, Ranabir Sahu, Subhash C Mandal. Design and Optimization of Ultrasound Assisted Extraction of Curcumin as an Effective Alternative for Conventional Solid Liquid Extraction of Natural Products. **Natural Product Communications (USA)**, 4(1): 95-100, 2009. [**Impact Factor: 1.2**]. Cited in Pubmed, Science Citation Index Expanded, JCR, Scopus
- Dewanjee, Saikat, Sahu, Ranabir, Maiti Anup, Dua, Tarun, **Mandal Vivekananda**. Effective control of type 2 diabetes through antioxidant defense by edible fruits of *Diospyros peregrina*. **Evidence Based**

- Complimentary and Alternative Medicine**, 2011:675397, 2011. [Impact Factor: 4.77]. Cited in Pubmed, Scopus
- Nilanjan Ghosh, Rituparna Ghosh, **Vivekananda Mandal**, Subhash C Mandal, V Kumar, PN Singh. *In vitro* antioxidant study of livosyp: a polyherbal formulation. **Pharmacologyonline (Italy)**, 1: 903-912, 2009. Cited in Scopus
  - **Vivekananda Mandal**, Saikat Dewanjee, Subhash C Mandal. Microwave assisted extraction of total bioactive saponin fraction from *Gymnema sylvestre* with reference to gymnemagenin: A potential biomarker. **Phytochemical Analysis (John Willey & Sons)**, 20(6): 491-497, 2009 [Impact Factor 2.6]. Cited in Pubmed, Science Citation Index (SCI), JCR, Scopus.
  - **Vivekananda Mandal**, Saikat Dewanjee, Subhash C Mandal. Role of Modifier in Microwave Assisted Extraction of Oleanolic Acid from *Gymnema sylvestre*: Application of Green Extraction Technology for Botanicals. **Natural Product Communications (USA)**, 4(8): 1047-1052, 2009 [Impact Factor: 1.2], Cited in Pubmed, Science Citation Index Expanded, JCR, Scopus.
  - Nilanjan Ghosh, Rituparna Chaki, **Vivekananda Mandal**, Subhash C Mandal, G David Lin. Mechanisms and Efficacy of Immunobiologic therapies for Inflammatory Bowel Diseases. **International Reviews of Immunology (Taylor & Francis Group, USA)**, 29(1): 4-37, 2010 [Impact Factor: 3.77]. Cited in Pubmed, Science Citation Index (SCI) and Scopus
  - Nilanjan Ghosh, Rituparna Chaki, **Vivekananda Mandal**, Subhash C Mandal. COX-2 as a Target for Cancer Chemotherapy. **Pharmacological reports (Poland)**, 62(2): 233-244, 2010. [Impact Factor 2.4]. Cited in Pubmed, Science Citation Index (SCI) and Scopus
  - Mahaveer Dhobi, **Vivekananda Mandal**, Siva Hemalatha. Optimization of microwave assisted extraction of bioactive flavonolignan – Silybinin. **Records of Natural Products (ACG Publications, Turkey)**, 3(1): 13-23, 2009
  - **Vivekananda Mandal**, and Subhash C Mandal Design and performance evaluation of a microwave based low carbon yielding extraction technique for naturally occurring bioactive triterpenoid: Oleanolic acid. **Biochemical Engineering Journal (Elsevier)**, 50: 63-70, 2010 [Impact factor 2.6] Cited in Pubmed, Science Citation Index Expanded, JCR, Scopus
  - Nilanjan Ghosh, Rituparna Chaki, **Vivekananda Mandal**, Subhash C Mandal. Recent advances in herbal medicine for treatment of liver diseases. **Pharmaceutical Biology (Taylor & Francis Group, USA)**, 49(9): 970-88, 2011 [Impact Factor 0.8]
  - Manish Kumar, **Vivekananda Mandal** and S. Hemalatha. Detection of metformin hydrochloride in a traditionally used. indian herbal drug for antidiabetic: a case report. **International Journal of Pharma and Bio Sciences**. 2(2): 307-313, 2011 [ISSN - 0975 6299]. [Impact Factor 0.47]
  - Anup Das, **Vivekananda Mandal**, Subhash C Mandal. Design of Experiment (DOE) approach for the process optimization of microwave assisted extraction of Lupeol from *Ficus racemosa* leaves using Response surface methodology **Phytochemical Analysis (John Willey & Sons)**, DOI 10.1002/pca.2403. [Impact Factor 2.6].
  - **Vivekananda Mandal**, Velmani G, Subhash C Mandal. An Inside to the Better Understanding of the Ethnobotanical route to Drug Discovery- the Need of the Hour. Accepted for Publication in **Natural Product Communications (USA)**. 7(11): 1551-1554, 2012 [Impact Factor: 1.2].

- **Vivekananda Mandal**, Yogesh Mohan, S. Hemalatha. “Microwave assisted extraction – an innovating and promising extraction tool for medicinal plant research” *Pharmacognosy Reviews* 1 (2007) 7-18.
- **Vivekananda Mandal**, Yogesh Mohan, Siva Hemalatha. Optimization of curcumin extraction by microwave assisted in vitro plant cell bursting by orthogonal array designed extraction process and HPTLC analysis, *Pharmacognosy Magazine* 3 (2007) 132-138. (**Impact factor 1.2**). Cited in Pubmed, Scopus

**Patents: 01 (Indian patent granted)  
01 (Indian patent filed)**

8. List of Presentation (National and international)

**National: 07**

**International: 09**

**Plenary lecture: 01**

9. Books published:

**Books authored: 01**

- “All You Need To Know About Botanical Extraction”, Birla Publishers, New Delhi, India, In Press 2012.

**Chapters Contributed: 04**

- **Vivekananda Mandal**, Subhash C Mandal. Modern methods of herbal drugs extraction. *HERBAL DRUGS* edited by Subhash C Mandal, New Central Book Agency, Kolkata, India, pp: 444-450. ISBN 978-81-7381-653-6.
- Nilanjan Ghosh, **Vivekananda Mandal**, Subhash C Mandal. Herbal Leads for Liver Disorders. *HERBAL DRUGS*; edited by Subhash C Mandal, New Central Book Agency, Kolkata, India, pp: 230-247. ISBN 978-81-7381-653-6.
- **Vivekananda Mandal**, Saikat Dewanjee and Subhash C. Mandal. Development of Advanced Separation Method for Bioactive Oleanolic Acid from Plant Matrix Using Microwave based Eco-green Technology, *Separation Processes*, Allied Publishers, New Delhi, India, pp 515-524 (ISBN 978-81-8424-499-1)
- **Vivekananda Mandal**, Subhash C Mandal. Ecosystem & Conservation Management- An Approach. *Ecorestoration and Biodiversity Conservation-* edited by G.P. Mishra & A. Gupta; Chapter 14, Avishkar Publishers (Jaipur), 2012. ISBN: 978-81-7910-418-7

10. Research experiences: 03 years as UGC Meritorious Fellow during PhD

11. Research Project details: **01 (CSIR, on going), submitted: 03**

12. Research area (Interest)

- Green chemistry
- Chemometrics and process optimization
- Bio assay guided drug discovery
- Ethnopharmacology research