



## **Dr Soma Das**

M.Pharm ,Ph.D, PGDHA, FIChE , FIC (India)

### **Associate Professor**

Department of Pharmaceutical Technology: School of Health & Medical Sciences

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### **Professional profile**

*23 years of experience in Academic/ Pharmaceutical Industry / Research -2000-till date*

#### **Education :**

- **Ph.D in Pharmacy:** Department of Pharmaceutical Technology: Jadavpur University: Kolkata: West Bengal: -2021
- **Master of Pharmacy:** Department of Pharmaceutical Technology: Jadavpur University: Kolkata: West Bengal: -2014
- **Bachelor of Pharmacy:** Mysore University- Karnataka -1999
- **Post Graduate Diploma in Hospital Administration:** Apollo Hospital -Hyderabad -2006
- **Employment:** (Twenty-Three years of experience in Academic/ Pharmaceutical Industry / Research -2000-till date)

#### **Academic (2016- till date)**

**Associate Professor** - Department of Pharmaceutical Technology: School of Health & Medical sciences :Adamas University-India- -

**Assistant Professor** - National Institute of Pharmaceutical Education & Research -Kolkata(NIPER-KOLKATA) , Department of Pharmaceuticals , Government of India **and** Department of Pharmaceutical Technology: School of Health & Medical Sciences :Adamas University-India

#### **Industry and Research(2000-2015)**

Rendered services as Chief Scientist in the division of Research and Development of cGMP-certified pharmaceutical organizations . Also responsible in carrying out product development, formulation, and analytical testing of and finished products and overall in charge of the Research and Development Division of the organization .

**Consultant ( Honorary )** (01.07.2014-30.06.2020)

Worked as a Scientific Advisor in M/S Natreon, INC , USA ,to provide consultation on scientific research includes process optimization ,development of Chromatographic analytical methods such as HPLC ,HPTLC,LCMS-MS, development of Ayurvedic ingredients , and developing of manufacturing process.

### **International Pharmaceutical Excipients' Council of India( 2023- till date)**

Member working (Honorary ) on regulations concerning the excipients market, as well as on new research and buisness practices

### **Internal Auditor -ISO/IEC17025( 2023-till date)**

Training and Capacity Buiding (TCB):Quality Council of India -Government of India

### **Research Area**

- Gastroretentive Drug delivery System
- Novel Drug Delivery System
- Pharmaceutical Excipients Science
- Polysaccharide based Drug delivery system

### **Highlights of Research Activities**

#### **Academic / Research Organization -Collaboration**

- ✓ *Universiti Teknologi MARA* -Malaysia has signed MOU @ *Adamas University* aims to cooperate in participating academic and research activities in the area of Drug Discovery and to promote Research and Development on April 2024
- ✓ *National Institute of Pharmaceutical Education & Research ( NIPER)*-kolkata – - has signed MOU @ *Adamas University* aims to cooperate in the area of Research and Development and innovative pharmaceutical product development on January 2024

- ✓ **Research Guidance : PG Students:** Awarded : **10** : Ongoing : **5**  
**Ph.D** Ongoing : **4**

#### ✓ **Research Patents**

1.Title of the invention: A Novel Herbal Formulation for the prevention and management

of cardiovascular Disorder: (Patent File no : 20 2022 103 773) : Country : German-2022

2.Title of the Invention: Green Pharma: The Growing demand for Environmentally Friendly drugs(Patent File No :2022 310 47397): Published : Country: India-2022

### **Research Publications :**

- ✓ Quality-by-Design approach for the development of sustained-release multiple-unit beads of lamotrigine based on an ion-cross-linked composite of pectin and okra mucilage: an in vitro appraisal International Journal of Biological Macromolecules-ELESIEVER -VOL-163(2020) -pg-842-853
- ✓ Okra and Its various applications in Drug Delivery, Food Technology, health and Pharmacological Aspects: Journal of Pharmaceutical Sciences and Researchers: Vol 11(6) 2019:2139-2147
- ✓ Development of Quality Control Parameters for Standardization of a novel mucilage obtained from Okra (*Abelmoschus esculentus* (L.) Moench) fruit- International Journal of Current Pharmaceutical Research Vol-13 Issue-3 ,2021.
- ✓ Multi-Targeted Prediction of the Antiviral Effect of *Momordica Charantia* extract based on Network Pharmacology: Antiviral prediction of *Momordica Charantia*
- ✓ An overview of Aquatones: A novel approach for delivering macromolecules: Indian Journal of Research: Volume II -Issue 8 August -22 : pg no-112-117.
- ✓ Potential of Statins In Risk Reduction And Cancer Prevention: Current Scenario and Future Perspective: Journal of Pharmaceutical Negative Results (7),2022:
- ✓ Development of polyherbal Anti-dandruff Formulation: An Approach to green cosmetics Journal of Pharmaceutical Negative Results 13 (7),2022pg 2757-2764
- ✓ A Comprehensive Survey Report on Women Health Care Problems at the age Group of 18-30 years –ACTA Scientific Medical Sciences (ISSN 2538-0931) -Volume 7 Issue 3 March 2023
- ✓ Development and Evaluation of Natural Anti-dandruff Shampoo: Journal of Natural Remedies: Volume 23: Issue 3 : July 2023 Pg no:1125-1134
- ✓ Traditional Indian Medicinal Plants for the Treatment of Psoriasis: A Review of Active Constituents and their Pharmacological Effects- : Journal of Natural Remedies: Volume 23: Issue 3 : July 2023: Pg NO- 785-790
- ✓ A Perspective review on role of various nutraceuticals in management of cancer: Journal of Cardiovascular Diseases: Vol 14 :Issue 11:Page 573-582:2023
- ✓ Mechanistic approach and Overview of Medicinal Plants on wound Healing: International Journal of Pharmacy and Biological Sciences: Vol 13: Issue 2: Page No: 137-148

### **Academic Books**

- A Text Book of Modern Pharmaceutics (For M. Pharm. -1<sup>st</sup> Year) publishers : Nova Publishers on January 2024.
- A Laboratory Handbook of Physical Pharmaceutics – publishers: IIP Series:2024
- Exit Pharma Book (Diploma in Pharmacy ) –Publishers –SM Creativity and Education Foundation – (2024)
- A Laboratory Handbook of Food Chemistry Practical –Publishers: IIP series
- Futuristic Trends in Pharmacy and Nursing -from IIP series

### **Book chapters**

- Impacts of E-learning Platform on Indian Education System in Covid-19 Pandemic in the Chapter 8 of the book “Exploring the Scientific Research” Published by *Akinik Publications-New Delhi 2020*
- Exploration of Ayurvedic Poly-Herbal Formulation in Psoriasis (Ekakushta): Accepted for publication in edited book titled "Research Trends in Medicinal Plant Sciences (Volume - 11)". Ref. No.: RTMPS-11-04 dated :30-03-2021.by *Akinik Publications -New Delhi*
- Multifunctional liposome-quantam dot hybrid nanocarriers for drug targeting to brain tumors is published in Chapter :24 edited book titled "Nanocarriers For Drug Targeting to Brain Tumors " *Elsevier, USA.*
- Innovative Pharmaceutical Excipient and Their Evaluation: A Study on Okra Fruit” published in the book title :Current Overview on Pharmaceutical Science :Vol. 5 (pp.55-74) in the year 2023 : Publishers :BP publishers -2023
- “Tablets ”published in the book title : Text Book of Industrial Pharmacy : Volume 1:Akinik Publications (pp-51-73 ) in the year 2023 Publishers :Akinik Publishers-2023
- Role of quorum quenching in pathogen control in Aquaculture” published in the book title : Quorum Quenching – A Chemical Biological Approach for Biofilm Mitigation and Drug Development": Publishers :Royal Society of Chemicals : UK-2023
- Soft robotics micromachines for Medical Devices” accepted in the book titled : Soft Robotics in Biomedical Sciences: Current Status and Advancements Publishers :Taylor and Franchis : CRC Press : Taylor and Francis : USA -2023
- Non-Thermal Processing as a Preservation Tool for Health- Promoting Technologies: A Systematic Review.: *accepted* in the book title : Non-Thermal Processing of Functional Foods" CRC Press : Taylor and Franchis : USA -2023
- “Nutritional management of Iron Deficiency Anaemia ”accepted in the book titled Nutritional management of various diseases: Publishers :Academic Decipher-Mumbai-2023
- “Functional food for the treatment of immune haemolytic Anaemia”accepted in the book titled :Nutraceuticals in Anemia: Publishers CRC : Taylor and Francis group : USA: 2023
- “Therapeutic Interventions in Spinal Muscular Atrophy” accepted in the book Neurodegenerative Disorders: From Pathogenesis to Clinical Approaches, Nova Publishers -2023
- Classify chronic wounds: The need for explainable AI and Responsible AI accepted in the book titled : Explainable and Responsible Artificial Intelligence in Health Care: *Wiley Scrivener Publishing : 2024*

- Herbal Drugs in Chronic Disease Management Insights and Applications “-accepted in a book titled :”Recent Trends in Herbal Medicine” : Akinik Publications: 2024
- Extraction Techniques for Herbal Drug Development from Traditional Methods to Modern Innovations : accepted in the book “ Recent Advances in Pharmaceutical Sciences “: Akinik Publications: 2024

**Projects :** I No received from IIT Kharagpur Research Foundation on Start up and Innovation dated 06.11.24

### **Award/ Academic Recognition/ Major Professional Activity:**

- Awarded Life Fellowship by Indian Institute of Chemical Engineers (FIChE) in CHEMCON-2023 (Recognized as Scientific and Industrial Research organization-SIRO-DST: Govt of India on 27.12.23
- Elected as a Fellow by Institution of Chemists (India):2024
- Awarded as Chartered Chemists by Institution of Chemists (India):2024
- Awarded Ist Prize in National Conference on Transforming Pharmacy Education as per the National Education Policy (NEP) 2020 for Holistic Development, Organized by Brainware University, Barasat, Kolkata on 25th and 26th August 2023.
- Awarded Ist Prize in International Conference on Pharmacy and Healthcare: NATCONPH 2023 Organized by NSHM Institute of Health Sciences: NSHM Knowledge Campus, Kolkata on 29th and 30th September, 2023.
- Certificate of Appreciation received for scientific presentation at Centre for High Impact Neuroscience and Translational Applications (CHINTA) (TCG -CREST) Inaugural symposium: dated 19.01.24.
- Certificate of Appreciation received for guiding students in the National *Level Review Article Competition held at Mumbai : March 2023*

### **Administrative**

1. **Member** Product Development Committee -NIPER KOLKATA—Ministry of Chemicals and Fertilizers-India: **2020-2021.**
2. **Member** -Faculty Council for the School of Health and Medical Sciences-Adamas University: 2023- to till date
3. **Member** -Institution;s Innovation Council-Adamas University-2023-to till date
4. **Member** -Central Library Committee Member -School of Health & Medical Sciences -Adamas University-2023-to till date
5. **Co-ordinator** NAAC Criteria VII- School of Health & Medical Sciences-Adamas University 2023- till date
6. **Co-ordinator** - Industrial visits / internships for undergraduate students -2022- to till date

