

## **CURRICULUM VITAE**

**Name:** Soumyajit Majumdar

**Position:** Associate Professor, Pharmaceutics  
Research Associate Professor, Research Institute of Pharmaceutical Sciences  
Associate Director, Pii Center for Pharmaceutical Technology  
Associate Director, Biopharmaceutics-Clinical and Translational Core  
Co-Director Hands-on Course in Tablet Technology

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Department of Pharmaceutics  
The University of Mississippi  
University, MS, 38677.

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**Education:** Bachelor of Pharmacy, 1989  
Jadavpur University, Calcutta, India  
Master of Pharmacy, 1991  
Jadavpur University, Calcutta, India  
Doctor of Philosophy, 2005  
Pharmaceutical Sciences and Pharmacology  
University of Missouri-Kansas City, MO, USA.

### **PROFESSIONAL EXPERIENCE**

7/12 – to date **Organization:** **The University of Mississippi**  
**Title:** *Associate Director, Pii Center for Pharmaceutical Technology*

7/11 – to date **Organization:** **The University of Mississippi**  
**Title:** *Associate Professor, Department of Pharmaceutics, School of Pharmacy and Research Associate Professor, RIPS*

7/05 – 6/11 **Organization:** **The University of Mississippi**  
**Title:** *Assistant Professor, Department of Pharmaceutics, School of Pharmacy. and Research Assistant Professor, RIPS*

6/99 to 7/00: **Company:** **Orchid Healthcare, Chennai, India**  
**Title:** *Deputy Manager Formulation Development*

5/97 to 6/99 **Company:** **Novartis Enterprises Pvt. Ltd. Mumbai, India**  
**Title:** *Senior Executive (Group Leader) Research and Development*

93 to 4/97 **Title:** *Executive, Research and Development (Sandoz India Ltd. which became Novartis)*

4/92 to 93 **Title:** *Production Officer (Sandoz India Ltd.)*

6/91 to 4/92 **Title:** *Management Trainee, Manufacturing (Sandoz India Ltd.)*

## ACHIEVEMENTS:

### AWARDS / HONORS

**Bachelor of Science in Pharmaceutical Sciences Teacher of the Year**, The University of Mississippi, 2011-2012

**New Investigator Research Award**, The University of Mississippi, 2010-2011

**Associates Grant Award**. The University of Mississippi, 2007 – 2008

**Faculty Research Fellowship Award**, The University of Mississippi, 2006 – 2007

**AAiPS Research Award**, 2004, from American Association of Indian Pharmaceutical Scientists (AAiPS).

**School of Graduate Studies Distinguished Dissertation Fellowship Award**, University of Missouri-Kansas City (UMKC), 2004-2005.

**Dean's Doctoral Scholar Fellowship**, UMKC, 2003-2004

**Outstanding Leadership Award** in 2003 from School of Pharmacy, UMKC.

**Outstanding Leadership Award** in 2002 from School of Pharmacy, UMKC.

**Chancellor's Non-Resident (CNR) Award**, UMKC, 2000 – 2005.

**University gold medal** for standing first in the M.S. program in the Division of Pharmaceutical Technology, Jadavpur University, Calcutta, India.

**Scholarship from the University Grants Commission** (Govt. of India) for the duration of the M.S. program (1989-1991).

### COURSES TAUGHT

- PHAR 331, Basic Pharmaceutics (3 Credit hours), Course Director
- PHAR 433, Industrial Pharmacy (Elective; 2 Credit hours), Course Director
- PHAR 660, Advanced Pharmacokinetics (3 Credit hours), Course Director
- PHAR 541 (2 Credit hours), Course Director
- PRCT 353 (2 Credit hours), Skills Lab I Course co-Instructor (about 30% course load)
- PHAR 649 – Product Development (3 Credit hours), Course Instructor
- PHAR 434, Biopharmaceutics and Pharmacokinetics, 2005-2006 Spring (3 Credit hours) Co-Instructor (30% course load)

## RESEARCH GRANTS

### Completed Projects

Oral Absorption of Hesperidin 3/27/06 – 4/26/06  
Next Pharmaceuticals, Inc.  
The major goal of this project was to research factors affecting oral absorption of hesperidin.  
Principal Investigator: **S. Majumdar**

Berberine Project 10/07/05 – 12/06/05  
Next Pharmaceuticals, Inc.  
The major goal of this project was to study and improve dissolution of berberine.  
Principal Investigator: **S. Majumdar**

P20 RR021929 (Matsumoto/Cutler) NCRR/NIH 09/2006-09/2009  
Center of Research Excellence in Natural Products Neuroscience (CORE-NPN)  
Individual Project Proposal: “Characterization, Formulation and Evaluation of THC Pro-drugs for Oral Transmucosal Delivery”  
PI of Individual Project: Repka, M.A.  
Co-PI of Individual Project: **Majumdar, S**

R21 EY18426-01 NIH/NEI 09/2007-02/2010  
Localized modulation of RPE P-gp/MRP activity for back-of-the-eye drug delivery.  
Principal Investigator: **S. Majumdar**  
Equipment for Center for Thermal Pharmaceutical Processing 06/01/2008-09/30/2010  
(Health Resources and Services Administration) (Repka, M.A)  
Co-Principal Investigator: **S. Majumdar**

Small Grant Project (**Majumdar, S**) 07/2007 – 06/2011  
Awarded through NIH/NCRR grant award P20 RR021929 (Cutler) Center of Research Excellence in Natural Products Neuroscience (CORE-NPN)  
Small Grant Project Title: Vitreo-retinal hesperidin concentrations following topical or oral administration  
Principal Investigator: **S. Majumdar**

Center for Thermal Pharmaceutical Processing Phases I & II 09/2008 - 08/2011  
(Health Resources and Services Administration) (Repka, M.A)  
Co-Principal Investigator: **S. Majumdar**

Hot-Melt Extrusion Feasibility Studies for AR-12: 09/2010 - 02/2011  
Preformulation and Accelerated Stability  
Co-Investigator: **S. Majumdar**  
Other Involvement: REPKA, MICHAEL A - Principal investigator  
Award Type: Business and Industry  
Category: Research  
Granting Agency: Other

2 R42 GM067304-02 (ElSohly) NIH/NIGMS 06/2008 – 05/2012  
Project Title: Transmucosal Intra-Oral Drug Delivery System for THC  
Co-Principal Investigator: **S. Majumdar**

Supplement to 2 R42 GM067304-02 (ElSohly) NIH/NIGMS 06/2008 – 05/2012  
Project Title: Transmucosal Intra-Oral Drug Delivery System for THC  
Co-Principal Investigator: **S. Majumdar**

Center for Thermal Pharmaceutical Processing (CTP2) Phase III 09/2010 - 08/2013  
Principal Investigator: M.A. Repka  
Co-Principal Investigator: **S. Majumdar**  
Agency: DHHS

1R41EY020042-01A1 Development of Tetrahydrocannabinol 03/2011-02/2013  
prodrugs for topical treatment of Glaucoma”  
Principal Investigator at Research Institution: **S. Majumdar**  
Agency: NIH/NEI

Technology Commercialization Initiative Fund 04/2013 – 09/2013  
Controlled Release Ophthalmic Formulations  
Principal Investigator of Project: **S. Majumdar**

### **Current Projects**

P20 GM104932 Center of Research Excellence in Natural 09/2012 – 08/2017  
Product Neuroscience  
Program Director: **S. Cutler**  
Principal Investigator Project 3: **S. Majumdar**  
Project 3 Title: Delta-8-Tetrahydrocannabinol in the management of glaucoma  
Agency: NIH/GM

1R41AI108113-01 08/2013 – 07/2014  
Program Director: ElSohly M.A,  
Project PI: ElSohly M.A, Majumdar S  
Orally Active Formulations of DHA Dimers for the treatment of Infectious Diseases  
Agency: NIH/NIAID

University of MS Research Foundation 09/2012 – 08/2017  
Pii Center for Pharmaceutical Technology  
Principal Investigator: S. Majumdar  
Project Director: M.A. Repka

Properties of HME Extruded Films containing Kollidon® VA-64      01/2010 - 12/2014  
and New Polymer, Soluplus®

Principal Investigator: M. A. Repka

Co-PI: **S. Majumdar**

Agency: BASF SE

Type: Research Contract

Fundamentals Studies in the Application of Low MW Klucel® and Hot-Melt Extrusion for the  
Oral Delivery of Insoluble Drugs from Tablets, Capsules and Oral Film Dosage Forms

Principal Investigator: M. A. Repka

01/2010-12/2014

Co-PI: **S. Majumdar**

Agency: Ashland Aqualon

Type: Research Contract

#### **PUBLISHED ARTICLES (PEER REVIEWED).**

1. ***Functional Expression of a Sodium Dependent Nucleoside Transporter on Rabbit Cornea: Role in Corneal Permeation of Acyclovir and Idoxuridine.*** Soumyajit Majumdar, Sriram Gunda and Ashim K. Mitra. *Current Eye Research*. 2003 Mar-Apr;26(3-4):175-83.
2. ***Drug delivery to retina: challenges and opportunities.*** Sridhar Duvvuri, Soumyajit Majumdar and Ashim K. Mitra. *Expert Opinion on Biological Therapy*. 2003 Feb;3(1):45-56.
3. ***Functional Differences in Nucleoside and Nucleobase Transporters Expressed on the Rabbit Corneal Epithelial Cell Line (SIRC) and Isolated Rabbit Cornea.*** Soumyajit Majumdar, Giridhar S. Tirucherai, Dhananjay Pal and Ashim K. Mitra. *AAPS PharmSci*. 2003;5(2):E15.
1. ***Expression of Peptide Transporters on Rabbit Retina: A Strategy to Improve Retinal Delivery of Ganciclovir.*** Soumyajit Majumdar, Sreeraj Macha, Yasser Nashed and Ashim K. Mitra. *Letters in Drug Design and Discovery*. 2004;1(1):73-77.
5. ***Membrane Transporter / Receptor Targeted Prodrug Design: Strategies for Human and Veterinary Drug Development.*** Soumyajit Majumdar, Sridhar Duvvuri and Ashim K. Mitra. *Advanced Drug Delivery Reviews*. 2004; 56(10): 1437-1452.
6. ***Bioreversion And Oral Bioavailability Of The L-Valine Dipeptide Ester Prodrug Of Acyclovir, Val-Valacyclovir, In Sprague-Dawley Rats.*** Soumyajit Majumdar, Sridhar Duvvuri and Ashim K. Mitra. *Clinical Research and Regulatory Affairs*. 2004; 21(1); 67 – 79.
7. ***Circumventing P-gp mediated cellular efflux of quinidine by prodrug derivatization.*** Ritesh Jain, Soumyajit Majumdar, Dhananjay Pal and Ashim K. Mitra. *Molecular Pharmaceutics*. 2004; 1(4); 290-299.
8. ***Mechanism of Ganciclovir Uptake by Rabbit Retina and Human Retinal Pigmented Epithelium Cell Line, ARPE-19.*** Soumyajit Majumdar, Sreeraj Macha, Dhananjay Pal and Ashim K. Mitra. *Current Eye Research*. 2004 Aug-Sep;29(2-3):127-36.
9. ***Role of Metabolism in Ocular Drug Delivery.*** Sridhar Duvvuri, Soumyajit Majumdar and Ashim K. Mitra. *Current Drug Metabolism*. 2004 Dec;5(6):507-15.

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