

# CURRICULUM VITAE

## S. NARASIMHA MURTHY

### RESIDENCE

501 Bowie Drive  
Oxford, MS 38655, USA  
Tel : 662-513-0024  
Cell: 662-202-4929

### OFFICE

Associate Prof-Pharmaceutics  
113 Faser Hall  
The University of Mississippi  
University, MS 38677  
Tel : 662-915-5164  
Fax:: 662-915-1177  
E-mail: [murthy@olemiss.edu](mailto:murthy@olemiss.edu)

Research Group : <http://www.olemiss.edu/~murthy>

### EDUCATION

1988-1992 Bachelor of Pharmacy (Bangalore University, India)  
1992-1994 Master of Pharmacy- Pharmaceutics (Bangalore University, India)  
1996-2002 PhD-Pharmaceutics (Bangalore University, India)  
2002-2005 Postdoctoral Research Associate- Molecular and Cellular Biophysics at Roswell Park Cancer Institute, Buffalo, NY, USA.

### POSITIONS AND INSTITUTES

1994-2002 Assistant Professor (Pharmaceutics)- M.S.R College of Pharmacy, India  
2005-2006 Assistant Professor (Pharmaceutics)-Ohio Northern University, OH  
2006-2011 Assistant Professor (Pharmaceutics) – The University of Mississippi, MS  
2011- Associate Professor (Pharmaceutics)-The University of Mississippi, MS  
2013- Founder-Director, Institute for Drug Delivery and Biomedical Research, Bangalore India ([www.IDBResearch.Org](http://www.IDBResearch.Org))

### OTHER AFFILIATIONS

Research Associate Professor- Research Institute of Pharmaceutical Sciences  
Chair-Dermatopharmaceutics Focus Group-AAPS  
Member- AAPS Member groups Co-ordination Committee  
Manager-Phoretex Pharma LLC, Oxford, MS.  
Chief Scientific Advisor-Dermaperm Research Inc, Bangalore, India.  
Editor in Chief-Research and Reports in Transdermal Drug Delivery  
Member of the Roaster of Central Scientific Review, Dermatology, Rheumatology and Inflammation Committee, CRS, **National Institutes of Health.**

### Editorial Advisory Board Member

Journal of Pharmaceutical Research  
Drug Development and Industrial Pharmacy  
Recent Patents on Drug Delivery & Formulation.

Clinical Medicine-Dermatology.  
ScientiaPharmaceutica.  
The Open Dermatology Journal  
Journal of Interactive experiment and protocol

#### **Research Grant Reviewer**

National Institutes of Health, USA  
Wellcome Foundation, UK  
British Skin Foundation, UK  
Ohio Northern University, Ada, OH  
Department of Innovation, Government of Italy  
Portuguese Foundation for Science and Technology

#### **Ph.D Dissertation Reviewer/Evaluator**

The University of Mississippi, Oxford, MS  
Jadavpur University, Kolkata, India.  
Manipal Academy of Higher Education, Manipal, India.  
Vinayaka Missision University, Coimbatore, India  
Tamilnadu MGR University, Chennai, India  
Berhampur University, Orissa, India.

#### **AWARDS & RECOGNITION**

2013 Top Reviewer by the American Pharmacists Association (APhA)  
2011 Top Reviewer by the American Pharmacists Association (APhA).  
2011 Top Reviewer” by Elsevier Publications Ltd.  
2010 Certification of “Highly cited publication in Journal of Dermatological Sciences”.  
2010 New Investigator Award- The University of Mississippi School of Pharmacy.  
2009 Top Reviewer by the American Pharmacists Association (APhA)  
2008 “Global Indus Technovator’s Award” from MIT, Boston, MA.  
2008 Top Reviewer by the American Pharmacists Association (APhA)  
2007 Faculty Research Fellow. The University of Mississippi.  
2006 Endowed Chair for Research at Ohio Northern University, Ada, OH.  
2006- Biography included in Marquis Who’s Who in the World (23<sup>rd</sup> Edn)  
2005- Biography included in Marquis Who’s Who in Science and Engineering  
2005- Biography included in Marquis Who’s Who is Health and Healthcare.

#### **RESEARCH GRANTS (PRINCIPAL INVESTIGATOR-MURTHY)**

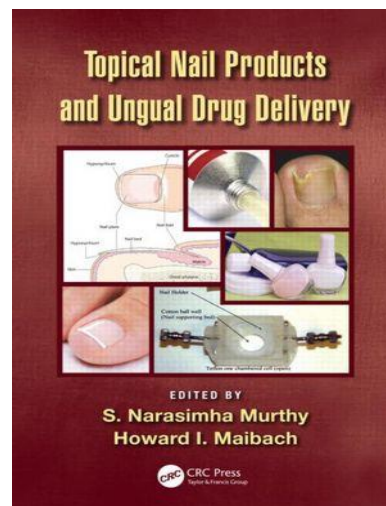
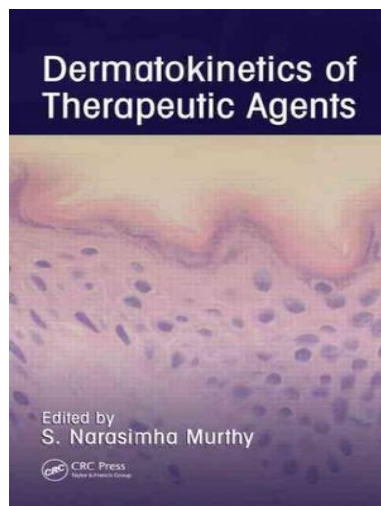
2014-19	TOPICALS PRODUCTS AND CQA ( <u>1U01FD005233-01</u> ) funded by USFDA	\$1.250.000
2014-15	NAIL PENETRATION OF ANTIFUNGAL DRUG (ARNO THERAPEUTICS, USA)	\$22,500

2014-15	Dermal Delivery of therapeutics using Cyclodextrins (Ligand Ltd, CA)	\$40,000
2013	Travel grant-3 <sup>rd</sup> European Cyclodextrin Conference in Turkey. Cydex Pharmaceuticals, La Jolla, CA	\$4,000
2013-14 Role: PI	Formulation of Intrathecal Controlled Release Microspheres Small grant program (COBRE awarded to Univ. Mississippi)	\$50,000
2012-14 Role-PI	Taste Masking of API's by Hot melt Extrusion Roquette Pharma, Chicago, IL	\$10,000
2012-14 Role-PI	A Novel method for treating Chronic pain National Institute of Neurological Disorders and Stroke ( <b>NINDS</b> )	\$369,000
2010-12 Role-PI	Transdermal delivery of iron National Institute of Neurological Disorders and Stroke ( <b>NICHD</b> )	\$138,000
2010 Role-PI	Bioadhesive properties of Nail lacquers Chanelle Group, France	\$5000
2009-11 Role: PI	Vehicles to enhance nose to brain bioavailability of drugs CORE-NPN (NCRR)-Junior Investigator	\$264,000
2008-09 Role: PI	Rapid transdermal delivery of drugs. Transport Pharmaceuticals Inc.	\$140,000
2008-10 Role: PI	Electropulsation mediated Drug therapy for Onychomycosis National Institute of Biomedical Engineering and Bioimaging ( <b>NIBIB</b> )	\$150,000
2007-08 Role: PI	Iontophoretic trans-ungual Delivery of Drugs" Transport Pharmaceuticals Inc.	\$128,000
2007-08 Role: PI	Noninvasive transcorneal drainage of aqueous humor Faculty Research Fellow-2007, Univ. of Mississippi.	\$ 8,000
2007-2009 Role:PI	Enhancement of brain uptake of Neurotrophins CORE-NPN (NCRR)-Small grants program	\$20,000
2006-2009 Role: PI	Electroporation and transcutaneous extraction of drugs National Institute of Arthritis Musculoskeletal and Skin diseases ( <b>NIAMS</b> )	\$145,000
2005-06 Role: PI	Electret Effects on the Skin permeability Rad Elec Inc., MD	\$ 10,000

2005-06 Role: PI	Effect of electroporation on transcorneal water permeation Endowed Chair Research Grant-Ohio Northern University	\$ 21,000
2005-06 Role-PI	ONU Teaching with Technology Grant Office of Dean-Ohio Northern University	\$ 5,000
2001	Travel grant from Karnataka State Pharmacy Council for presentation of Research paper at FIP2000, Sydney, Australia. 2001.	Rs 15,000

## PUBLICATIONS

### BOOKS- CHIEF EDITOR



### BOOK CHAPTERS (Eleven)

*Chapters authored in the book "Advances in Pharmaceutical Technology" Edited by Shobharani R. Hiremath. (Publisher: Orient Longman).*

1. Transdermal drug delivery
2. Ocular drug delivery
3. Intranasal drug delivery
4. Buccal drug delivery
5. Implant Drug delivery systems

*Chapter authored in the book "Minimally invasive techniques of drug delivery" edited by Dr.Kulkarni, DPT laboratories. (CRC Press)*

6. Dermal and Transdermal drug delivery

*Chapter authored in the book "Percutaneous Enhancement Techniques edited by Dr.Howard Maibach.*

7. Therapeutic applications of Transdermal Electroporation

Chapters authored in the book "Dermatokinetics of therapeutic agents" edited by S.Narasimha Murthy

8. Formulation approaches to modulate the dermatokinetics of drugs

Chapters authored in the book "Topical Nail Products and Ungual Drug Delivery" edited by S.Narasimha Murthy

9. Topical nail formulations

10. Approaches to enhance unguinal and trans-ungual drug delivery.

11. *In vitro* and *in vivo* models to evaluate topical nail formulations.

#### PEER REVIEWED PUBLICATONS

1. Maurya A, **Murthy S.N.** Pretreatment with Skin Permeability Enhancers: Importance of composition and duration of treatment in diclofenac delivery. *J.Pharm.Sci.* 2014: 103(4), 1178-83
2. Juluri, A., **Murthy, S. N** (2014). Transdermal iontophoretic delivery of a liquid lipophilic drug by complexation with an anionic cyclodextrin. *Journal of Controlled Release*, 2014:189, 11-18.
3. Manda P, Angamuthu M, Hiremath S, **Murthy S.N.** Iontophoretic drug delivery for the treatment of scars" *J.Pharm Sci* 2014,:03(6), 1638-42
4. Jo.S, **Murthy S.N** et al., Quinone Propionic Acid-based Redox-triggered Polymer Nanoparticles for Drug Delivery: Computational Analysis and *in Vitro* Evaluation. *J.Applied. Polymer.Sci (In Press)*
5. Shivakumar H.N, Repka M.A, **Murthy S.N.** Delivery of drugs across the nail plate. *J.Drug.Del.Sci. Tech.* 2014.
6. Abhshek J, Shivakumar H.N, Vanakja K, **Murthy S.N.** Passive approaches of transcutaneous vaccine delivery *J.Drug.Del.Sci. Tech.* 2014
7. Modepalli N, **Murthy S.N.** Irontophoresis for treating Anemia. *J.Drug.Del.Sci. Tech.* 2014
8. Angamuthu M, **Murthy S.N.** Controlled release Intralesional Injection of Terbinafine hydrochloride for treating onychomycosis. *J.Pharm.Sci* 2014:103(4), 1178-1183.
9. Perumal. O., **Murthy S. N.**, & Kalia, Y. N. The Development of Modern Transdermal Drug Delivery Systems and Future Trends. *Skin Pharmacol. Physiol.*, 2013: 26(4-6), 331-342.
10. **Murthy, S. N.** Iontophoresis for treating nail diseases. *Therapeutic delivery*, 2013: 4(6), 647-650.
11. Loria, M. J., White, S. W., Robbins, S. A., Salmeto, A. L., Hymel, K. A., **Murthy, S. N.**, & Sufka, K. J. Brain-derived neurotrophic factor response in vulnerable and resilient genetic lines in the chick anxiety-depression model. *Behavioral Brain Res.*. 2013: 245, 29-33.
12. Juluri A, Modepalli N, Shivakumar H.N, Repka M, Jo.S, **Murthy S.N.**, Minimally invasive transdermal delivery of iron dextran using microneedles. *J.Pharm.Sci.* 2013:102(2), 987-993.

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