

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

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)

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 (23rd 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)

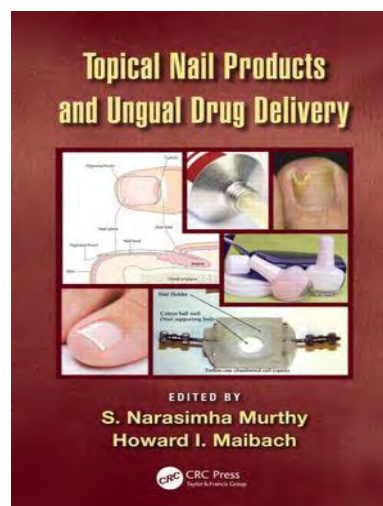
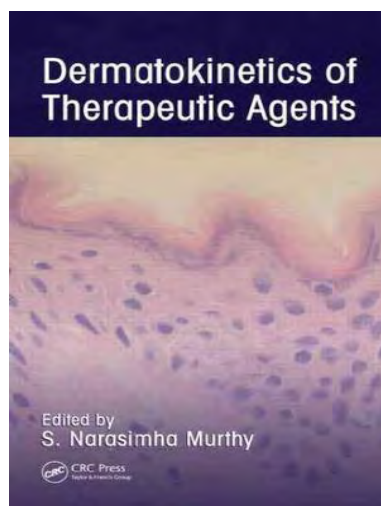
2014-19	TOPICALS PRODUCTS AND CQA <u>(1U01FD005233-01)</u> funded by USFDA	\$1.250.000
2014-15	NAIL PENETRATION OF ANTIFUNGAL DRUG (ARNO THERAPEUTICS, USA)	\$22,500

2014-15	Dermal Delivery of therapeutics using Cyclodextrins (Ligand Ltd, CA)	\$40,000
2013	Travel grant-3 rd 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 (NINDS)	\$369,000
2010-12 Role-PI	Transdermal delivery of iron National Institute of Neurological Disorders and Stroke (NICHD)	\$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 (NIBIB)	\$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 (NIAMS)	\$145,000
2005-06 Role: PI	Electret Effects on the Skin permeability Rad Elec Inc., MD	\$ 10,000

2005-06	Effect of electroporation on transcorneal water permeation	
Role: PI	Endowed Chair Research Grant-Ohio Northern University	\$ 21,000
2005-06	ONU Teaching with Technology Grant	
Role-PI	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.

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.