

Faculty Profile

Name: Rabinarayan Parhi

Designation: Assistant Professor

Department/Centre: Pharmaceutical Sciences

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Educational Qualifications: M. Pharm (Pharmaceutics), Indian Institute of Technology-Banaras Hindu University (IIT-BHU) (2008); Ph. D in Pharmaceutical Sciences, Berhampur University (2017)

Areas of Interest: Pharmaceutical formulations, Novel drug delivery systems, Transdermal and Topical drug delivery, Penetration enhancers, Microneedles, 3D printing of pharmaceutical dosage forms.

Work Experience: [In chronological order with the recent one at the last.]

Name of the Organization	Designation	Period		Nature of Post (permanent/temporary/ Adhoc/ contractual etc.)
		From	To	
SMT. B.N.B. Swaminarayan Pharmacy College, Vapi, Gujarat.	Lecturer	15/07/2008	14/01/2009	Permanent
Institute of Pharmacy, GITAM, Deemed to be University, Visakhapatnam, Andhra Pradesh	Assistant Professor	27/01/2009	31/01/2020	Permanent

Department of Pharmaceutical Sciences, Assam University (A Central University), Silchar, Assam.	Assistant Professor	03/02/2020	Continuing	Permanent
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Awards and Honors (if any): [Maximum up to 5] [In chronological order, with the recent one at the last.]

Award Details	Awarding Agency	Year (s)	Remark
Scholarship During M. Pharm.	Ministry of Education (MoE / MHRD)	2006-2008	----
Qualified three times in GATE- ✓ 2005 with AIR of 1365 (88.20 percentile) ✓ 2006 with AIR of 59 (99.56 percentile). ✓ 2008 with AIR of 553 (97.99 percentile).	National Co-ordination Board – GATE, Ministry of Education, Government of India	2005, 2006, and 2008	----
Research Paper Award	Indian Drug Manufacturers' Association (IDMA)	2011	----
Featured in the list of the World's Top 2% Scientists	Stanford University and published by Elsevier	Five consecutive years: 2021, 2022, 2023, 2024, and 2025.	----

Projects: [In chronological order with the recent one at the last. Mention shall be made if the project is ongoing or completed]

Project Title	Awarding Agency	Period	Amount Sanctioned	Ongoing/ Completed
Formulation Development and Evaluation of Transdermal Bioadhesive Gel of	University Grant	2013-2016	1.3 LACS	Completed

Metoprolol Succinate using Novel Penetration Enhancers for the Treatment of Hypertension	Commission (UGC)			
Design, development and optimization of nanocellulose and hyaluronic acid-based bilayer dissolving microneedle patch of some selected anti-hypertensive drugs using response surface methodology	University Grant Commission (UGC)	2021-2025 (Extended)	10 LACS	Completed

Consultancy/International Collaboration: [In chronological order, with the recent one at the last.]

Details	Year	Remark (if any)

Publications in Peer-Reviewed Scopus-Indexed Journals (Maximum 7)

Authors	Title of the Paper	Name of the Journal	Journal details	ISSN
Rabinarayan Parhi	Drug delivery applications of chitin and chitosan: a review.	Environmental Chemistry Letters. (Springer Nature; IF-25.2)	18(3): 577-594; 2020. DOI: 10.1007/s10311-020-00963-5.	1610-3653
Rabinarayan Parhi, Padilam Suresh.	Transdermal delivery of Diltiazem HCl from matrix film: Effect of penetration enhancers and study of antihypertensive activity in rabbit model	Journal of Advanced Research (Science Direct; IF-17.1)	7 (3): 539–550; 2016 DOI: https://doi.org/10.1016/j.jare.2015.09.001	2090-1232
Rabinarayan Parhi, V.V. Nishanth Goli.	Design and Optimization of Film Forming Gel of Etoricoxib using Research Surface Methodology	Drug Delivery and Translational Research (Springer Nature; IF-6.9)	10: 498–514; 2020. DOI: https://doi.org/10.1007/s13346-019-00695-2	2190-3948
Rabinarayan Parhi,	Formulation optimization and characterization of transdermal film of	Materials Science and Engineering C.	58: 331–341; 2016 DOI: 10.1016/j.msec.2015.08.056	0928-4931

Padilam Suresh	simvastatin by response surface methodology	(Science Direct; IF-6.7)		
Rabinarayan Parhi. Goutam Kumar Jena, Ch Niranjana Patra, Kahnu Charan Panigrahi, Jammula Sruti, Parameswar Patra,	QbD enabled optimization of solvent shifting method for fabrication of PLGA-based nanoparticles for promising delivery of Capecitabine for antitumor activity.	Drug Delivery and Translational Research (Springer Nature; IF-6.9)	12(6); 1521-1539: 2022, DOI: https://doi.org/10.1007/s13346-021-01042-0 .	2190-3948
Mridusmita Das, Rabinarayan Parhi*	Nanocarriers and their integrated microneedle systems-mediated drug delivery for the treatment of moderate-severe dermatological diseases: Recent progress, applications and future perspectives.	Drug Delivery Science and Technology. (Science Direct; IF-5.2)	106; 106748: 2025. https://doi.org/10.1016/j.jddst.2025.106748 .	1773-2247
Rabinarayan Parhi	Development and optimization of pluronic ® F127 and HPMC based thermosensitive gel for the skin delivery of metoprolol succinate	Journal of Drug Delivery Science and Technology (Science Direct; IF-5.2)	36: 23-33; 2016 DOI: https://doi.org/10.1016/j.jddst.2016.09.004	1773-2247

Books Authored/Edited Books (Maximum 5)

Authors	Title of the Book	ISBN	Published Details	Authored/ Edited
Rabinarayan Parhi, Suryakanta Swain, Sandip Prasad Tiwari,	Computer aided drug development (M. Pharm. Textbook)	978-81-954048-4-1	Woodhead Publishing India Pvt. Ltd. (ELSEVIER), New Delhi. 2022	Edited (Text Book)
Rabinarayan Parhi,	Molecular pharmaceuticals:	978-93-88320-02-3	Woodhead Publishing India	Edited (Text Book)

Suryakanta Swain, Sarwar Beg	Nanotechnology and targeted drug delivery systems (M. Pharm. Textbook)		Pvt. Ltd. (ELSEVIER), New Delhi, 2019	
Rabinarayan Parhi, Suryakanta Swain, S. Manohar Babu	Characaterizations of lipid based nanostructured systems	978-3-330-35155-4	LAMBERT Academic Publishing (LAP), Germany; 2017	Authored
Rabinarayan Parhi	Development and optimization of Thermosensitive gel of Metoprolol	978-3-659-97236-2	LAMBERT Academic Publishing (LAP), Germany; 2016	Authored

Contributed Book Chapters Published in Edited Books of Reputed Publishers (Maximum 5)

Authors	Title of chapter	Name of the Book	Book details	ISBN
Rabinarayan Parhi	Carbon nanomaterials in sunscreen products. pp-453-474, https://doi.org/10.1016/B978-0-443-33473-3.00013-9	Industrial applications of carbon nanomaterials.	Inamuddin, Jorddy Neves Cruz, Narcis Duteanu (Eds). Elsevier, Netherlands, Published on 24th June 2026	978-0-443-33473-3.
Rabinarayan Parhi, Bikash Ranjan Jena, Aradhana Panigrahi, Suryakanta Swain.	Nanomedicines for the management of atherosclerosis. pp-515-551, https://doi.org/10.1016/B978-0-443-28942-2.00003-X	Nanobiomaterials and Nanomedicines for Metabolic Disorders.	Subhash C. Mandal, Nilanjan Ghosh, Amit Kumar Halder (Eds.). Woodhead Publishing-Elsevier, Published on 15 th Nov 2025.	978-0-443-28942-2.
Rabinarayan Parhi, Bikash Ranjan Jena, Bhisma Narayan Ratha,	Electrospun chitosan as a drug delivery system. pp-147-173, DOI: 10.1016/B978-0-443-29066-4.00025-1.	Electrospun Biomaterials for Tissue Engineering and Drug Delivery Applications.	Inamuddin, Tariq Altalhi, Maha Khan (Eds.). Woodhead Publishing-Elsevier, Cambridge, UK.	978-0-443-29066-4

Suryakanta Swain,			Published in May 2025	
Rabinarayan Parhi, Lalduhsanga Pachuau.	Electrospun patches for drug delivery. pp. 105-146, May 2025. DOI: 10.1016/B978-0-443-29066-4.00019-6.	Electrospun Biomaterials for Tissue Engineering and Drug Delivery Applications	Inamuddin, Tariq Altalhi, Maha Khan (Eds.) Woodhead Publishing-Elsevier, Cambridge, UK, Published in May 2025	978-0-443-29066-4
Rabinarayan Parhi.	Nanoparticle-mediated drug delivery for neurodegenerative diseases. pp. 267-307, https://doi.org/10.1016/B978-0-443-28822-7.00013-1 .	The Neurodegeneration Revolution: Emerging Therapies and Sustainable Solutions.	Trideva Sastri Koduru, Riyaz Ali M. Osmani, Ekta Singh, Suman Dutta (Eds). Academic Press, London, UK, Published in November 2024.	978-0-443-28822-7

Peer Reviewed Publications in Proceedings of National/International Conference/Workshop/ Symposium (Maximum 5)

Authors	Title of the Paper	Name of the Program and Organizer	Publisher Details	ISBN/ISSN
Parhi R, Shah P, Garg A, Chakraborty S, Mishra A, Singh Sanjay.	Effect of natural permeation enhancers on In-vitro percutaneous permeation of aceclofenac through abdominal skin of mouse	International conference on emerging trends in Biotechnology, School of Biotechnology, IIT-BHU, Varanasi	School of Biotechnology, IIT-BHU, Varanasi	
Parhi R, Garg A, Jain A, Singh S.	Formulation of topical bioadhesive gel of Aceclofenac using 3 level Factorial Design	60 th Indian Pharmaceutical Congress, Netaji Subhash Institute of Technology, New Delhi	Netaji Subhash Institute of Technology, New Delhi	
Tiwari S, Parhi R, Singh S.	Formulation and evaluation of buccoadhesive films of Miconazole nitrate for prolonged intra-oral delivery using L9 orthogonal design	59 th Indian Pharmaceutical Congress, Department of Pharmaceutics, IIT-BHU, Varanasi	Department of Pharmaceutics, IIT-BHU, Varanasi	

Rabinarayan P, Tejasri P.	Preparation and evaluation of transdermal drug-in-adhesive patch of Simvastatin	68 th Indian Pharmaceutical Congress, Andhra University, Visakhapatnam	Andhra University, Visakhapatnam	
Rabinarayan Parhi, N. Divya Supriya, Tejasri Panchamukhi	Design and optimization of ondansetron transdermal film using RSM	70 th Indian Pharmaceutical Congress, Amity University Campus, Delhi-NCR	Amity University Campus, Delhi-NCR	

Patents (if any):

Patent Details	Awarding Agency	Year	Remark (if any)

Details of the Ph. D. degree awarded (Under the supervision of the faculty):

Name of the Scholar	Title of the Thesis	Year of award	Remark (if any)
			This column shall contain the department and university in which the Ph.D was carried out and any other relevant information