

Faculty Profile

Name : Dr. Laldusanga Pachuau
 Designation : Assistant Professor
 Department/ Centre : Pharmaceutical Sciences
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Educational Qualifications: M.Pharm, PhD

Areas of Interest: Drug delivery, Natural products, Bioavailability enhancement techniques, Biomass valorization, Cellulose and its derivatives in drug delivery

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

Name of the Organization	Designation	Period		Nature of Post (permanent/temporary/ Ad- hoc/contractual etc.)
		From	To	
Regional Institute of Paramedical & Nursing Sciences, Aizawl	Assistant Professor	20.09.2007	24.01.2015	Contractual
Assam University Silchar	Assistant Professor	30.01.2015	Till date	Permanent

Awards and Honours (if any): [Maximum up to 5] [In chronological order, with the recent one at the last.]

Award Details	Awarding Agency	Year	Remark (if any)
David Lalbiaknunga Memorial Award	Zemabawk Students Union	1997	
GATE Fellowship	AICTE, Govt. Of India	2004-2006	
Best Poster Award	NanoBio International Collaborative Conference	2013	
ISNM-DBT Fellowship	Indian Society of Nanomedicine & Department of Biotechnology, Govt. of India	2017	
Young Scientist Award	SPER & Thai Industrial Pharmacists Association	2019	

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

Project Title	Awarding Agency	Period	Amount Sanctioned	Ongoing/ Completed
Isolation, characterization and formulation studies of gums obtained from <i>Albizia stipulate</i> and <i>Prunus cerasoides</i> of Mizoram	DBT, Govt. of India	2012-2015	57.62 lakhs	Completed
Isolation, Characterization, and Investigation of Cellulose Nanocrystals from wild <i>Musa</i> spp. of Mizoram as functional tablet excipient	SERB-DST, Govt. of India	2019-2023	29.83 lakhs	Completed
Exhaustive valorization of arecanut waste as a source of potential healthcare biomaterials	ASTEC, Govt. of Assam	2022-2025	3.5 lakhs	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
Kalita P, Bhattacharyya J, Dutta PP, Chakrabarti S, Ahmed AB, Pachau L	Valorization of polyphenolic compounds via encapsulation: A review	Journal of Food Measurement and Characterization	20, 1387-1410 (2026)	2193-4126
Kalita P, Rahman MT, Haloi P, Bora NS, Pachau L	Pectin in gut health and beyond: A review	International Journal of Biological Macromolecules	322, 146954 (2025)	0141-8130
Das N, Kalita P, Pachau L	Lignin Nanoparticles from Areca Nut Waste Biomass: Investigation of its Antioxidant and UV Protection Properties	Waste and Biomass Valorization	16, 5809-5821 (2025)	1877-2641

Kalita P, Roy PK, Das N, Pachua L	Silicified microcrystalline cellulose from renewable banana pseudostem: Physicochemical and functional analysis	International Journal of Biological Macromolecules	283, 137620 (2024)	0141-8130
Nath R, Das N, Pachua L	Cellulose Nanocrystal-incorporated Co-processed Excipient in Tablet Formulation	Cellulose Chemistry and Technology	58, 31-43 (2024)	0576-9787
Laldinchhana, Dutta, RS, Thanzami K, Hauzel L, Pachua L	Evaluation of the food and nutrition value of <i>Rubus alceifolius</i> Poir. fruits of Mizoram, India	Current Nutrition & Food Science	16, 554-562 (2020)	1573-4013
Pachua L , Dutta RS, Hauzel L, Devi TB, Deka D	Evaluation of novel microcrystalline cellulose from <i>Ensete glaucum</i> (Roxb.) Cheesman biomass as sustainable drug delivery biomaterial	Carbohydrate Polymers	206, 336-343 (2019)	0144-8617

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

Authors	Title of chapter	Name of the Book	Book details	ISBN
Kalita P, Goswami A, Das MK, Pachua L	Biological Synthesis of Nanoparticles by Actinomycetes and Biogenic Sustainable Nanotherapeutics	Biogenic Synthesis of Nanoparticles and Sustainable Nanotherapeutics	165-192, Wiley (Ed. MK Das), 2026	9781394311309
Pachua L	Mild-Acidolysis Lignin: Extraction	Handbook of Lignin	1-23, Springer Nature (Ed. M. Jawaid, A. Ahmad, A. Meraj), 2025	9789819726646
Parhi R, Pachua L	Electrospun patches for drug delivery	Electrospun Biomaterials for Tissue Engineering and Drug Delivery Applications	105-146, Elsevier (Ed. Inamuddin, T. Altalhi, M. Khan), 2025	9780443290664
Roy PK, Debbarma A, Tarai M, Kalita P, Das MK, Pachua L	Pharmacokinetics of lipid drug conjugates	Lipid-Drug Conjugates: Innovation and Applications	137-159, Elsevier (Ed. MK Das), 2025	9780443333828
Kalita P, Hazarika QK, Deka B, Pachua L	Seed containing antiproliferative drug in phytopharmaceutical industry and market	Seeds: Anti-proliferative Storehouse for Bioactive Secondary Metabolites	81-112, Springer Nature (Ed. D. Pal), 2024	9789819980437