
KHANGEMBAM LENIN SINGH

Assistant Professor**Department of Botany****Avvaiyar Government College for Women, Karaikal, Puducherry****Permanent Address:** Nagamapal Singjubung Leirak, Imphal-West, Manipur PIN: 795001**Present Address:** 2nd Cross Road, Bharathi Nagar, Karaikal, Puducherry, PIN: 609602**Contact:** Mobile: +91- 8670152755; e-mail: LNMNBOT@GMAIL.COM/ KLS@DHTEPDY.NIC.IN**FATHER'S NAME:** Khangembam Thoiba Singh**MOTHER'S NAME:** Khangembam Momon Devi (Late)**DATE OF BIRTH:** 10th December, 1985

EDUCATIONAL QUALIFICATIONS:

Exams passed	Year	%	Institution	Board/ University	Subjects taken
High School Leaving Certif. (HSLC)	2001	69.83	Savio English School	Board of Sec. Edu., Manipur	English, Maths MIL (Manipuri), Science, Social Sc
Higher Sec. Examination (HSE)	2003	65.60	Human Resource Development Academy	Council of Higher Sec. Edu., Manipur	English MIL (Manipuri) Biology, Physics Chemistry
B.Sc.	2006	64.88	Imphal College	Manipur University	Botany (Honours) Zoology Chemistry
M.Sc.	2008	62.25	Visva-Bharati		Botany (Plant Physiology, Biochemistry and Molecular Biol)
Ph.D.	2010 – 2015		Visva-Bharati		Botany

Thesis Title: **Role of reactive oxygen species in axis growth during seed germination**
(awarded on 22.12.2015)

NET (Lectureship) in Life Science conducted by joint CSIR-UGC December, 2008

Award: CSIR-Research Associateship (RA) on 31st March, 2017

RESEARCH PUBLICATIONS:

Sl. No.	Title	Year & Impact Factor	Journal/Book	Volume- Page
1.	Early axis growth during seed germination is gravitropic and mediated by ROS and calcium	(2017) JCR IF = 2.833	Journal of Plant Physiology ISSN: 0176 - 1617	Vol.216 Page 181-187 doi.org/10.1016/j.jplph.2017.07.001
2.	Role of peroxidase activity and Ca ²⁺ in axis growth during seed germination	(2015) JCR IF = 3.249	Planta ISSN: 0032-0935	Vol.242 Page 997-1007 doi.org/10.1007/s00425-015-2338-9
3.	Superoxide and its metabolism during germination and axis growth of <i>Vigna radiata</i> (L.) Wilczek seeds (online)	(2014)	Plant Signaling and Behavior ISSN: 1559-2324 (previously 1559-2316)	doi.org/10.4161/psb.29278

PAPERS PRESENTED IN SEMINARS/CONFERENCES:

Sl. No	Topic	Conference	Organised By	Period/ Remarks
1.	Synchronization of Reactive Oxygen Species (ROS) production and Gravitropism during early stage of axis growth during germination	International Conference on Innovative & Emerging Trends in Botany	Alagappa University, Karaikkudi, Tamil Nadu	(November, 6 - 7, 2019) Awarded 1 st in Oral Presentation
2.	Axis Growth during Germination: Regulation by Reactive Oxygen Species Metabolism	Frontiers of Plant Physiology Research: Food security and environmental challenges	Department of Plant Physiology, Orissa University of Agriculture & Technology Bhubaneswar & Indian Society for Plant Physiology, New Delhi	(November 23-25, 2014)
3.	Role of H ⁺ -ATPase and Reactive Oxygen Species (ROS) in germination and elongation growth of axes of <i>Vigna radiata</i> (L.) Wilczek	Advances in Biological Sciences	Pt. Ravishankar Shukla University, Raipur, Chhattisgarh	(November 5-7, 2011)

4.	Role of Peroxidase in regulating axes elongation during germination of <i>Vigna radiata</i> (L.) Wilczek	Plant Science in Post Genomic Era	Society for Plant Physiology and Biochemistry, New Delhi and Sambalpur University, Jyoti Vihar, Orissa	(February 17-19, 2011)
5.	Regulation of Axis Growth by Superoxide Produced by NADH/NADPH Oxidase During Germination of <i>Vigna radiata</i> (L.) Wilczek var B1	Physiological and Molecular Approaches for Crop Improvement under Changing Environment	Indian Society for Plant Physiology, New Delhi and Banaras Hindu University, Varanasi, Uttar Pradesh	(November 25 – 27, 2010)

ORIENTATION/REFRESHER COURSES ATTENDED:

S. No	Name of the Course	Place/ Organized by	Duration	Sponsoring Agency	Remarks
1.	One day Orientation Programme for the newly Recruited faculty members of Arts and Science Colleges in the Union Territory of Puducherry	Tagore Government Arts and Science College, Puducherry	19 th July, 2018	Directorate of Higher & Technical Education, Puducherry	-
2.	Orientation Course (Online)	Ramanujan College, University of Delhi	4 th June - 1 st July, 2020	Ministry of Human Resource Development Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching	A+ Grade
3.	Refresher Course in Life Sciences (Online)	University of Hyderabad, Telangana	13 th to 25 th September, 2021	UGC-HRDC, University of Hyderabad, Telangana	A+ Grade
4.	Refresher Course in research Methodology	Ramanujan College, University of Delhi	22 nd April – 6 th May, 2022	Ministry of Human Resource Development Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching	A+ Grade

TEACHING EXPERIENCE:

Sl. No.	Designation	Period		Organization	Nature of Employment
		From	To		
1.	Guest Teacher	29/03/2016	15/05/2017	Visva-Bharati, Santiniketan, West Bengal	Temporary
2.	Assistant Professor	05/02/2018	Till date	Avvaiyar Government College for Women, Karaikal, Puducherry	Permanent

RESEARCH ACTIVITIES:

Sl. No.	Position	Period		Work Area/Title	Supervisor/ Organization
		From	To		
1.	Researcher	02.03.2009	17.06.2010	Practicing the basics of Biochemical Experiments	Prof. Rup Kumar Kar, Plant Physiology & Biochemistry Laboratory, Department of Botany, Visva-Bharati, Santiniketan
2.	Ph.D. Research Scholar	18.06.2010	18.06.2015	Role of reactive oxygen species (ROS) in axis growth during seed germination	
3.	UGC Major Research Project Fellow	14.03.2011	04.01.2014	Interaction of reactive oxygen species and ethylene in regulating axis growth during seed germination	
4.	CSIR Research Associate (RA)	15.06.2017	24.01.2018	Regulatory role of reactive oxygen species (ROS) in root gravitropism during early stage of seedling growth	

SEMINARS/EVENTS ORGANISED:

Sl. No.	Seminars/ Webinars/ Workshops/Conferences	Organized By	Period	Convener/ Coordinator/ Member
1.	One day Science Exhibition on “Plants – The source of Life”	P.G. Department of Plant Science, AGCW	15 th March, 2019	Member
2	One Day Seminar On “Recent Advances in Plant Sciences and Traditional Medicines”	IQAC & P.G. Department of Plant Science, AGCW	5 th March, 2020	Member
3	One Day Seminar cum Workshop on “Conservation of Olive Ridley Turtle	Department of Botany, AGCW & Nature Environment	3 rd March, 2023	Member

	& Mangrove Afforestation”	and Wildlife Society (NEWS)		
4	One day Exhibition cum Poster Presentation on “Plants – Treasure of the Earth”	Department of Botany, AGCW	25 th April, 2023	Member

WORKSHOPS ATTENDED:

Sl. No.	Workshops	Organized By	Period
1.	National hands on Faculty Training Programe in Field Taxonomy and Conservation	Bishop Heber College and Rapinath Herbarium, Tiruchirapalli	18 – 20 th October, 2018
2.	5 Days Online Workshop on Interactive E-Content for Faculty	Women’s Polytechnic College, Puducherry	4 th – 8 th May, 2020
