



DEPARTMENT OF BOTANY, NORTH EASTERN HILL UNIVERSITY

PH.Ds AWARDED (2003-2023)

Title of the Thesis	Name	Name of Supervisors
Year of Awarded: 2023		
Study of plant growth promoting activity of rhizospheric bacteria from <i>Piper nigrum</i> L. and <i>P. peepuloides</i> Roxb	Dr. P. Marlon Brando Rani	Prof. H. Kayang
Studies on diversity of fungal endophytes from <i>Kaempferia galanga</i> L. and their antagonistic effect on phytopathogens	Dr. Balasara War	Prof. H. Kayang
Evaluation of plant growth promoting and biocontrol potential of rhizobacteria against phytopathogens of <i>Curcuma longa</i> L.	Dr. Ferry Kharshandi	Prof. H. Kayang
Antimicrobial efficacy of some biocontrol agents and essential oils from medicinal plants of Meghalaya against post-harvest fungal contamination of stored maize.	Dr. Mayondi Grace Ramsdam	Prof. M. S. Dkhar (Supervisor) Prof. H. Kayang (Joint Supervisor)
Studies on diversity of wood-rotting fungi with special emphasis on selected edible fungi in different forest stands of Manipur	Dr. Chungreiliu A. K.	Prof. M. S. Dkhar (Supervisor) Prof. H. Kayang (Joint Supervisor)
Ecophysiological responses of <i>Ilex khasiana</i> Purk., <i>I. embeloides</i> Hook.f. and <i>I. venulose</i> f. to moisture and elevated temperature stresses and predictive modelling of their geographic distribution under climate change scenarios	Dr. Prem Prakash Singh	Prof. S. K. Barik (Supervisor) Dr. Krishna Upadhyaya (Joint Supervisor) Prof. Uma Shankar (Additional Joint Supervisor)
Effect of anthropogenic disturbances on species richness, functional diversity and ecosystem services in sacred forests of Meghalaya	Dr. Saralyn Kharbhiih	Prof. S. K. Barik (Supervisor) Prof. H. Kayang (Joint Supervisor)
A comparative study of carbon stock in tropical semi-evergreen moist broadleaved and lower montane broadleaved forests of Meghalaya	Dr. Rashmi Rekha Gogoi	Prof. S. K. Barik (Supervisor) Prof. H. Kayang (Joint Supervisor) Dr. Krishna Upadhyaya (Joint Supervisor)
Screening of extrafloral nectar (EFN) producing plants in sub-tropical forest of Meghalaya and dynamics of EFN chemicals in selected species	Dr. Neeharika Gogoi	Prof. S. K. Barik (Supervisor) Prof. N. K. Chrungoo (Joint Supervisor)
Population ecology and regeneration of <i>Ormosia robusta</i> Baker. and <i>O. pinnata</i> (Lour.) Merr. in north eastern India	Dr. R. K. Nilasana Singha	Prof. S. K. Barik (Supervisor) Dr. A. A. Mao (Joint Supervisor)
Engineering Flavonoid biosynthesis pathway for rutin biosynthesis in grains of black rice, <i>Oryza sativa</i> L.	Dr. Akib Ali	Prof. N. K. Chrungoo
Assessment of genetic diversity and phylogenetic relationship within the genus <i>Chenopodium</i> from Indian Himalayan region	Dr. Babita Kumari	Prof. N. K. Chrungoo
Biochemical and molecular analysis of floral development in <i>Crocus sativus</i> L.	Dr. Sunita Upadhyaya	Prof. N. K. Chrungoo
Functional genomics of apocarotenoid biosynthesis during flower development in saffron crocus (<i>Crocus sativus</i> L.)	Dr. Mona Hamal Thakuri	Prof. N. K. Chrungoo
Molecular analysis of amyloplast to chromoplast transition mediated carotenogenesis and flavonoid biosynthesis pathway in saffron (<i>Crocus sativus</i> L.)	Dr. Jyoti Pathak	Prof. N. K. Chrungoo
In silico transcriptome analysis of selected species of Orchidaceae with reference to secondary metabolism	Dr. Santosh Kumar Vishwakarma	Prof. Suman Kumaria (Supervisor) Prof. P. Tandon (Joint Supervisor)
Kinetics and molecular responses of cadmium and uranium uptake in <i>Spinacia oleracea</i> L and <i>Solanum melongena</i> L	Dr. Sushmita Barua	Prof. N. K. Chrungoo (Supervisor) Prof. S. K. Barik (Joint Supervisor)

Year of Awarded: 2022		
NPK cycling in a humid subtropical sacred forest of Meghalaya and its contribution to adjacent agro-ecosystem	Dr. Ibadahun Mary Nonghuloo	Prof. S. K. Barik (Supervisor) Prof. Uma Shankar (Joint Supervisor) Dr. K. Upadhyaya (Joint Supervisor)
Characterization of rhizospheric and endophytic bacteria in selected crops of <i>Jhum</i> fields of Mokokchung district of Nagaland"	Dr. Alarisa Khyllep	Prof. M. S. Dkhar (Supervisor) Dr. D. Thakuria (Joint Supervisor)
Floristic studies on angiosperms of Talle Valley Wildlife Sanctuary; Arunachal Pradesh with emphasis on their phytogeographic and evolutionary affinities	Dr. Licha Jeri	Prof. Yogendra Kumar
Taxonomic studies of grasses (Poaceae) in Meghalaya	Dr. Chester John Nongkynrih	Prof. Yogendra Kumar
Year of Awarded: 2021		
Studies on angiospermic flora of East Karbi Anglong wildlife sanctuary, Assam	Dr. Puranjoy Mipun	Prof. Yogendra Kumar (Supervisor) Prof. B. S. Mipun (Joint Supervisor)
Studies on floristic diversity and systematic of Order Solanales in Meghalaya	Dr. Nazir Ahmad Bhat	Prof. Yogendra Kumar
Evaluation of microalgae from selected water bodies of Garo Hills, Meghalaya for their pisciculture potential	Dr. Pranita Hajong	Dr. P. Ramanujam
Altitudinal Variation in diversity of wood-rotting fungi in forests of Nagaland	Dr. Kuno Chuzho	Prof. M. S. Dkhar
Effect of landuse type on soil algal Communities in Khasi Hills, Meghalaya	Dr. Carefulness Macnelson Dirborne	Dr. P. Ramanujam
Studies on Diversity of Endophytic Fungi Associated with <i>Nepenthes Khasiana</i> Hook.f.	Dr. Farzana Naseem	Prof. H. Kayang
Year of Awarded: 2020		
Characterisation and functional validation of the Waxy locus and its 5' UTR in selected rice germplasm of Northeast India.	Dr. Gayle Alisha Kharshiing	Prof. N. K. Chrungoo
Distribution mapping and molecular profiling of <i>Embelia ribes</i> Burm. and <i>Ilex venulosa</i> Linn. of Northeast India.	Dr. Amilia Nongbet	Prof. N. K. Chrungoo (Supervisor) Prof. S. K. Barik (Jt. Supervisor)
Role of vegetation in maintaining forest hydrology and stream water quality in some sacred forests of Meghalaya	Dr. Blessing Roy Suchiang	Prof. S. K. Barik (Supervisor) Dr. Papiya Ramanujam (Jt. Supervisor)
Morphometric genetic and phytochemical variabilities among natural populations of <i>Aconitum</i> species across environmental gradients in Northeastern India	Dr. Raghuwar Tiwary	Prof. S. K. Barik (Supervisor) Prof. N. K. Chrungoo (Jt. Supervisor)
Studies on the floristic diversity of angiospermic species of Dhemaji District, Assam	Dr. Deiji Narah	Prof. Yogendra Kumar
Identification of rhizospheric fungal isolates for biocontrol of phytopathogens of <i>Zingiber officinale</i> Rosc.	Dr. Sophie Phanri Majaw	Prof. H. Kayang
Studies on fungal endophytes associated with <i>Solanum tuberosum</i> L. for antagonistic potential against soil borne pathogens.	Dr. Manna Chibra N. Marak	Prof. H. Kayang
Antagonistic effects of rhizospheric fungal isolates against phytopathogens of <i>Solanum lycopersicum</i> L.	Dr. Deehunkimin Khonglah	Prof. H. Kayang
Assessment of Arbuscular Mycorrhizal Fungi association in native plants colonizing limestone mine spoils of Mawsmai, Meghalaya.	Dr. Ehkupar Gary Suting	Dr. (Mrs) Laxmi Rawat (FRI, Dehradun) (Supervisor) Prof. H. Kayang (Jt. Supervisor)
Studies on biological control of <i>Colletotrichum lindenuthianum</i> (Sacc. & Magn.) Briosi & Cav. infecting french bean (<i>Phaseolus vulgaris</i> L.).	Dr. Yarielyn Saio	Prof. M. S. Dkhar
Molecular characterization and differential expression of phenylalanine ammonia lyase (PAL) gene from <i>Vanda coerulea</i> Griff. Ex Lindl.	Dr. Swagata Nag	Prof. Suman Kumaria (Supervisor) Prof. P. Tandon (Jt. Supervisor)
Cryopreservation strategies and in vitro propagation of <i>Aquilaria malaccensis</i> Lam.	Dr. Seram Devika Devi	Dr. Meera C. Das (Supervisor) Prof. Suman Kumaria (Jt. Supervisor)
Characterization and analysis of tissue-specific expression of chalcone synthase gene from <i>Coelogyne ovalis</i> Lindl. under varying experimental conditions	Dr. Nutan Singh	Prof. Suman Kumaria (Supervisor) Prof. P. Tandon (Jt. Supervisor)

Year of Awarded: 2019		
Studies on diversity and antimicrobial and growth promoting activity of endophytic fungi associated with selected medicinal plants of Meghalaya.	Dr. Parismita Sarma	Prof. M. S. Dkhar (Supervisor) Prof. H. Kayang (Jt . Supervisor)
Asymbiotic seeds germination and cryopreservation of <i>Paphiopedilum insigne</i> Wall.ex Lindl. and <i>P. villosum</i> Lindl.	Dr. Reema Vareen Diengdoh	Dr. Meera C. Das (Supervisor) Prof. Suman Kumaria (Jt. Supervisor)
Analyses of genetic diversity and phylogenetic relationships in <i>Malaxis</i> spp.(Orchidaceae) using suitable DNA based markers	Dr. Jean Valrie Marbaniang	Prof. Suman Kumaria (Supervisor) Prof. P. Tandon (Jt. Supervisor)
Molecular characterization and chemoprofiling of <i>Dendrobium fimbriatum</i> Hook. of Northeast India	Dr. Prasenjit Paul	Prof. Suman Kumaria (Supervisor) Prof. P. Tandon (Jt. Supervisor)
Year of Awarded: 2018		
Studies on diversity of arbuscular mycorrhizal fungi of <i>Camellia sinensis</i> (L.) O.Kuntze and its influence on Plant growth	Dr. Deepa Sharma	Prof. H. Kayang
Molecular analysis of Carotenoid biosynthesis pathway in rice (<i>Oryza sativa</i> L.).	Dr. Upasna Chetry	Prof. N. K. Chrungoo
Molecular marker-based characterization of saponin rich genotypes of <i>Paris polyphylla</i> Sm. From North-East India.	Dr. Khumuckcham Sangeeta Devi	Prof. P. Tandon (Supervisor) Prof. Suman Kumaria (Jt. Supervisor)
Functional characterization of an endosperm specific promoter p1028 from common buckwheat (<i>Fagopyrum esculentum</i> Moench) for deriving tissue specific gene expression.	Dr. Lashaihun Dohtdong	Prof. N. K. Chrungoo
Molecular characterization and <i>in vitro</i> propagation of endangered <i>Nardostachys grandiflora</i> DC. And <i>N. jatamansi</i> (D.Don) DC.	Dr. Biswajit Bose	Prof. P. Tandon (Supervisor) Prof. Suman Kumaria (Jt. Supervisor)
Assessment of natural hybridity in <i>Myrica</i> species complex in Meghalaya and development of molecular markers for early screening of female plants.	Dr. Chipem Vashi	Prof. Arvind K. Misra
Studies on reproductive biology of bamboo orchid, <i>Arundina graminifolia</i> (D.Don) Hochr.	Dr. M. Devika Jana	Prof. N. Venugopal
Soil microbial diversity in Mawphlang sacred forest of Meghalaya	Dr. Haoban Romola Devi	Prof. M. S. Dkhar (Supervisor) Prof. S. R. Joshi (Jt. Supervisor)
Characterization of diversity of arbuscular mycorrhizal fungi associated with <i>Oryza sativa</i> L. in Ri-Bhoi district, Meghalaya	Dr. Pynbeitsyon Nonkling	Prof. H. Kayang
Year of Awarded: 2017		
Mass propagation of Panex of North -East India through somatic embryogenesis	Dr. Ladapling Kharmaophlang	Prof. P. Tandon (Supervisor) Dr. M. C. Das (Jt. Supervisor)
DNA based phylogenetic analysis of carnivorous plant families in Meghalaya: identification of adaptive and co-evolutionary patterns	Dr. Sureni Yanthan	Prof. P. Tandon (Supervisor) Prof. S. Kumaria (Jt. Supervisor)
Diversity of endophytic actinomycetes of selected medicinal plants of Meghalaya	Dr. Dina Barman	Prof. M. S. Dkhar
Year of Awarded: 2016		
Development of microsatellite markers and assessment of genetic diversity in ricebean (<i>Vigna umbellata</i> (Thunb.) Ohwi and Ohashi) collections from northeast India.	Dr. Banshanlang langrai	Prof. N. K. Chungroo (Supervisor) Dr. A. Pattanayak (Jt. Supervisor)
Nutrient conservation mechanism of evergreen and deciduous subtropical tree species.	Dr. Namita Thapa	Prof. S. K. Barik
Development of protocol for generic transformation of Chickpea (<i>Cicer arietinum</i> L.) using cry1Aabe gene construction	Dr. Evanoreen Ann Khongwir	Prof. P. Tandon (Supervisor) Dr. A. Patnayak (Jt. Supervisor)
Identification and characterization of novel antifungal peptides from selected plant species of North East India	Dr. Neeta Pathaw	Prof. N. K. Chrungoo
Seasonal variations in diversity and pigment composition of subaerial algal communities in East Khasi hills, Meghalaya	Dr. Diana Kharkongor	Dr. P. Ramanujam
Year of Awarded: 2015		
Reproductive biology of <i>Aquilaria malaccensis</i> Lam. and <i>Illicium griffithii</i> Hook. f. Thomson, two threatened tree species of northeast India.	Dr. Ester Jones Marbaniang	Prof. N. Venugopal
<i>In vitro</i> propagation of <i>Paris polyphylla</i> Sm. and assessment of saponin	Dr. Shiveirou Raomai	Prof. P. Tandon (Supervisor)

production in cultures and regenerated plantlets.		Prof. S. K. Kumaria (Jt. Supervisor)
Algal diversity in selected lentic bodies of Meghalaya with emphasis on productivity and nutrient value.	Dr. Ophilia Shylla	Dr. Papiya Ramanujam
Floristic studies on the family Zingiberaceae of Tamenglong District, Manipur.	Dr. Pantilunglu Daimei	Prof. Yogendra Kumar
Isolation and characterization of endosymbiotic cyanobacteria in some members of river-weeds (Podostemaceae).	Dr. Lalnuntluangi Ralte	Prof. N. Venugopal (Supervisor) Prof. Arvind Kumar Singh (Jt. Supervisor)
Niche characterization and study of genetic variability in <i>Panax</i> species complex of northeast India.	Dr. Lucy Badaplin Nongbri	Prof. S. K. Barik (Supervisor) Prof. A. K. Misra (Jt. Supervisor)
Studies on the vascular cambium and its derivatives in some ring and diffuse porous angiospermous trees of sub-tropical wet hill forest of Meghalaya.	Dr. Lalchhanhimi	Prof. N. Venugopal
Development of molecular profiles for characterization of accessions of <i>Chenopodium quinoa</i> Willd., an important underutilized crop from Indian Himalayas.	Dr. Rajkumari Jashmi Devi	Prof. N. K. Chrungoo

Year of Awarded: 2014

Studies on amplified length polymorphism in tea (<i>Camellia</i> species) clones.	Dr. Asem Mipeshwaree Devi	Prof. A. K. Misra (Supervisor) Dr. S. Goel (Joint Supervisor)
Quantitative assessment of floristic diversity and species populations in tropical hill forests of Meghalaya.	Dr Amit Kumar Tripathi	Prof. Uma Shankar
Distribution and mapping of selected tree species in different forest types of lower Assam region of India.	Dr. Devendra Kumar	Prof. Uma Shankar
Biochemical, molecular and phylogenetic studies of selected wild <i>Solanum</i> species of Meghalaya	Dr. Insan Ara Rahman	Prof. A. K. Misra (Supervisor) Prof. Y. Kumar (Jt. Supervisor) Prof. D. Syiem (Jt. Supervisor)
Role of microorganisms in carbon and phosphorus dynamics during recovery of degraded terrestrial ecosystems of Cherrapunjee plateau.	Dr. Debashree Nath	Prof. S. K. Barik
<i>Ex situ</i> conservation of <i>Cymbidium hookerianum</i> Rechb. F. and <i>Cymbidium eburneum</i> Lindl. through <i>in vitro</i> propagation and cryopreservation.	Dr. Kiran Gogoi	Prof. S. Kumaria (Supervisor) Prof. P. Tandon (Jt. Supervisor)
Structural and functional responses of landscape elements to anthropogenic land use changes in Cherrapunjee plateau.	Dr. Wishfully Mylliemngap	Prof. S. K. Barik
<i>In vitro</i> propagation of <i>Dendrobium hookerianum</i> Lindl., a threatened orchid of Northeast India and enzymatic studies during different stages of its development.	Dr. Sumi Paul	Prof. S. Kumaria (Supervisor) Prof. P. Tandon (Jt. Supervisor)
Embryological studies on <i>Gaultheria fragrantissima</i> Wall., an important medicinal plant.	Dr. Wympher Langstang	Prof. N. Venugopal
Systematic and phylogeny of <i>Dioscorea</i> species of Meghalaya.	Dr. Nilofer Sheikh	Prof. Y. Kumar (Supervisor) Prof. A. K. Misra (Jt. Supervisor)
Status and diversity of arbuscular mycorrhizal fungi in coal mines of Jaintia Hills, Meghalaya.	Dr. Ksanbok Makdoh	Prof. H. Kayang
Assessment of genetic variations in micropropagated plants of <i>Nepenthes khasiana</i> Hook. F., an endemic insectivorous plant of Meghalaya.	Dr. Soibam Purnima Devi	Prof. S. Kumaria (Supervisor) Prof. P. Tandon and Prof. S. R. Rao (Jt. Supervisors)
Diversity of wood-rotting macrofungi of East Khasi Hills and decay potential of selected fungal species	Dr. Aroma Lyngdoh	Prof. M. S. Dkhar (Supervisor) Prof. H. Kayang (Jt. Supervisor)
Molecular characterization and <i>in vitro</i> propagation of <i>Dendrobium nobile</i> Lindl., an important medicinal orchid of North East India.	Dr. Paromik Bhattacharyya	Prof. S. K. Kumaria (Supervisor) Prof. P. Tandon (Jt. Supervisor)
Quantitative assessment of phytodiversity, floristic composition and	Dr. Souravjyoti Borah	Prof. Uma Shankar

species populations in lower Assam region of India.		
Year of Awarded: 2013		
Role of earthworms on soil microbial diversity and leaf litter decomposition in soils from selected forests stands of Meghalaya	Dr. Ruth Laldinhar	Prof. M. S. Dkhar (Supervisor) Prof. H. Kayang (Jt. Supervisor)
Population structure and natural regeneration of Himalayan Yew (<i>Taxus wallichiana</i> Zucc) in subtropical forests of Meghalaya	Dr. Mildona Swer	Prof. Uma Shankar
Studies on Diversity, Productivity and Nutrient content in algal Communities of Umiew river, Meghalaya	Dr. Hygina Siangbood	Dr. P. Ramanujam
Studies on diversity of arbuscular mycorrhizal fungi associated with <i>Flemingia vestita</i> benth. ex baker	Dr. L. S. Songachan	Prof. H. Kayang
Effect of coal mining on the periphytonic and benthic algal communities in the streams of Jaintia Hill, Meghalaya	Dr. Mautushi Das	Dr. P. Ramanujam
Effect of coal stock drainage on the soil and ecophysiology of paddy and potato crops in Jaintia Hills, Meghalaya	Dr. Febreena Grace Lyndem	Prof. R. C. Laloo
Impact of domestic discharge on the water quality of river Umkhrah in Shillong, Meghalaya and Bioaccumulation of pollutants in plants	Dr. Jasmine Therese Sawian	Prof. R. C. Laloo
Biotechnological enhancement of Capsaicin biosynthesis in cell cultures of <i>Capsicum chinense</i> Jacq.	Dr. Mechuselie Kehie	Prof. P. Tandon (Supervisor) Prof. S. Kumaria (Jt. Supervisor)
Dynamics of microbial populations and their activities in experimental paddy fields under organic and inorganic farming practices	Dr. N. Nakhro	Prof. M. S. Dkhar
Effect of provenance variation on seed characteristics germination and seedling growth of tree bean (<i>Parkia roxburghii</i> G. Don)	Dr. Kitboklang Nongrum	Prof. Uma Shankar
Ethnobotanical studies and phytochemical analysis of selected medicinal plants of Senapati district, Manipur	Dr. Neli Lokho Pfoze	Prof. Y. Kumar (Supervisor) Prof. B. Myrboh (Jt. Supervisor)
DNA fingerprinting and <i>in vitro</i> propagation of <i>Vanda coerulea</i> Griff. ex Lindl.	Dr. Viki Manners	Prof. S. Kumaria (Supervisor) Prof. P. Tandon (Jt. Supervisor)
Biochemical studies and effects of photon flux densities on <i>in vitro</i> establishment of mycorrhizal association in <i>Dendrobium chrysanthum</i> Wall. ex. Lindl.	Dr. Subarna Hajong	Prof. P. Tandon (Supervisor) Prof. S. Kumaria (Jt. Supervisor)
Year of Awarded: 2012		
Studies on the impact of coal mine drainage on microbial ecology of water bodies of Jaintia Hills, Meghalaya	Dr. Ibandarisuk Lyngdoh	Prof. H. Kayang
Studies on soil microbial populations and their activities as affected by crop rotation and organic treatments under experimental conditions	Dr. H. Swer	Prof. M. S. Dkhar
Studies on the rhizosphere microflora of soybean in Meghalaya and their effect on seedling growth under organic and inorganic farming practices	Dr. B. B. Das	Prof. M. S. Dkhar
Genetic Variation Assessment and <i>In Vitro</i> Propagation of <i>Jatropha curcas</i> Linn. from Meghalaya and Assam	Dr. S. Kumar	Prof. S. Kumaria (Supervisor) Prof. P. Tandon (Jt. Supervisor)
Development of molecular markers for marker-assisted selection of catechin content in tea (<i>Camellia</i> spp.)	Dr. M. Elangbam	Prof. A. K. Misra
Analysis of genetic diversity and Phylogenetic relationship in the genus <i>Nymphaea</i> using DNA profiling	Dr. J. Dkhar	Prof. P. Tandon (Supervisor) Prof. S. Kumaria (Jt. Supervisor)
Molecular typing of some native cyanobacteria and <i>Rhizobium</i> strains	Dr. D. L. Biate	Prof. A. K. Misra
Biomass and nutrient accumulation pattern, habitat specificity and growth behavior of <i>Phyllostachys manii</i> Gamble and <i>Sinarundinaria griffithiana</i> (Muro) Chao and Renvoize	Dr. E. Kharlyngdoh	Prof. S. K. Barik
Carbon sequestration in the humid tropical and sub-tropical forests of Meghalaya	Dr. Ratul Baishya	Prof. S. K. Barik
Population ecology of threatened ethno-medicinal plant species in relation to forest fragmentation in Khanchendzonga Biosphere Reserve,	Dr. M. K. Lyngdoh	Prof. S. K. Barik

Sikkim		
Reproductive Biology of <i>Panax wangianus</i> s.c. Sun	Dr. Preeti Ahuja	Dr. N. Venugopal
Year of Awarded: 2011		
Studies on the wood rotting fungi of Meghalaya	Dr. J. Z. Sailo	Prof. M. S. Dkhar (Supervisor) Dr. H. Kayang (Jt. Supervisor)
Studies on the arbuscular mycorrhizal fungi associated with <i>Michelia champaca</i> Linn and their potential on its growth	Dr. Panna Das	Dr. H. Kayang
Isolation and functional characterization of the waxy locus in common buckwheat (<i>Fagopyrum esculentum</i> Moench)	Dr. N. Devadasan	Prof. N. K. Chrungoo
Year of Awarded: 2010		
Establishment of phylogenetic relationship in <i>Myrica</i> species of Meghalaya and development of molecular markers for early screening of <i>Myrica</i> trees.	Dr. Mhathung Yanthan	Prof. A. K. Misra
Year of Awarded: 2009		
Study of soil microflora in two sacred groves of Meghalaya.	Dr. B. Gashnga	Dr. H. Kayang
Micropropagation and conservation of critically endangered <i>Mantisia spathulata</i> Schult. and <i>Mantisia wengeri</i> Fischer (Zingiberaceae) of northeast India.	Dr. S. S. Das Bhowmik	Prof. P. Tandon (Supervisor) Dr. S. Kumaria (Jt. Supervisor)
Year of Awarded: 2008		
Studies on the developmental and Histo - Chemical analysis of digestive and Secretory glands in some insectivorous Plants of Meghalaya.	Dr. K. R. Devi	Dr. N. Venugopal
Studies on the vascular cambium and its Derivatives in some primitive angiosperms Of sub-tropical moist forest of Meghalaya.	Dr. M. G. Liangkuwang	Dr. N. Venugopal
Regeneration ecology and Sustainability of Harvest of bay leaf, <i>Cinnamomum tamala</i> Fr. Ness in Meghalaya	Dr. B. Ghosh	Dr. Uma Shankar (Supervisor) Dr. S. K Barik (Jt. Supervisor)
Clonal propagation and cryopreservation of <i>Dendrobium longicornu</i> Lindl. and <i>Dendrobium formosum</i> Roxb.: Two endangered orchids of North-East India	Dr. S. Dohling	Dr. S. Kumaria (Supervisor) Prof. P. Tandon (Jt. Supervisor)
Studies on regeneration of tree species in subtropical forests of Meghalaya	Dr. S. Nongbri	Prof. H. N. Pandey.
Impact of mining on plant diversity and community structure of aquatic and terrestrial ecosystem of Jaintia Hills, Meghalaya	Dr. S. Jeeva	Dr. R. C. Laloo
Conservation and DNA Fingerprinting of <i>Nepenthes khasiana</i> Hook. f. a threatened insectivorous plant of India	Dr. I. Nongrum	Prof. P. Tandon (Supervisor) Dr. S. Kumaria (Jt. Supervisor)
Studies on interrelationship between tree diversity and N and P dynamics in a humid subtropical forest ecosystem of Meghalaya	Dr. J. Kamei	Prof. H. N. Pandey.
Year of Awarded: 2007		
Role of fine roots and soil microbes in C, N, and P dynamics in a humid tropical forest ecosystem of northeast India	Dr. A. R. Barbhuya	Prof. H. N. Pandey (Supervisor) Dr. A. Arunachalam (Jt. Supervisor)
Biodiversity characterization and regeneration ecology of some important tree species in tropical evergreen secondary forest in Namdapha National Park, Arunachal Pradesh	Dr. D. Adhikari	Dr. S. K. Barik (Supervisor) Dr. A. Arunachalam (Jt. Supervisor)
Micropropagation of <i>Ilex khasiana</i> Hook. f. and <i>Nymphaea tetragona</i> (Ait.) George - rare and endangered plants of Meghalaya, India	Dr. J. Dang	Prof. P. Tandon
Introduction of deltaentoxine gene cry 1A(c) of <i>Bacillus thuringiensis</i> in Basmati rice varieties	Dr. A. Kumar	Prof. P. Tandon (Supervisor) Dr. H. S. Gupta (Jt. Supervisor)
Soil microbial diversity in the disturbed and undisturbed deciduous forest of Meghalaya	Dr. M. Dkhar	Dr. M. S. Dkhar
In vitro propagation and conservation of <i>Cymbidium devonianum</i> Paxt. and <i>Dendrobium lituiflorum</i> Lindl; rare and threatened epiphytic orchids	Dr. M. C. Das	Prof. P. Tandon (Supervisor) Dr. S. Kumaria (Jt. Supervisor)

of north-east India		
Molecular typing of <i>Frankia</i> in the field collected nodules from different altitudes in Sikkim	Dr. Anindita Khan	Prof. A. K. Misra
Analysis of molecular diversity in accessions of buckwheat (<i>Fagopyrum</i> spp) from Himalayan ranges	Dr. Anusuya Rout	Dr. N. K. Chrungoo
Year of Awarded: 2006		
Studies on the effect of "Bun" cultivation on soil microbes and their activities.	Dr. M. Khongsai	Dr. H. Kayang
Developmental Physiology and Biochemistry of Somatic Embryogenesis in <i>Pinus Kesiyae</i> Royle Ex. Gord	Dr. S. Purkayastha	Prof. P. Tandon
Ecological studies of some important tree species of subtropical humid forest of Meghalaya	Dr. N. Odyo	Prof. H. N. Pandey
Impact of shifting cultivation and mining on land degradation and soil biological processes in Nokrek biosphere reserve of Meghalaya	Dr. V. Ralte	Prof. H. N. Pandey (Supervisor) Dr. S. K. Barik (Jt. Supervisor)
Impact of human activities on plant biodiversity of Nokrek Biosphere Reserve of Meghalaya	Dr. S. D. Prabhu	Prof. R. S. Tripathi (Supervisor) Dr. S. K. Barik (Jt. Supervisor)
Morphological and Embryological studies of some <i>Podostemaceae</i> members of North Eastern India	Dr. H. Lalruatsanga	Dr. N. Venugopal
Site-specificity, growth and productivity of Rui bamboo (<i>Arundinaria maling</i> Gamble) in Jang area of Arunachal Pradesh	Dr. K. L. B. Singha	Prof. R. S. Tripathi (Supervisor) Dr. M. L. Khan (Jt. Supervisor)
Year of Awarded: 2005		
Studies on Biodiversity and Experimental taxonomy of <i>Dendrobium</i> Sw. of North East.	Dr. A. Lokho	Dr. Y. Kumar
Year of Awarded: 2004		
Studies on soil microbiology of Groundnut (<i>Arachis hypogaea</i> . L) under different fertilizer treatment	Dr. R. Lalfakzuala	Dr. H. Kayang (Supervisor) Prof. M. S. Dkhar (Jt. Supervisor)
Impact of shifting cultivation and mining on land degradation and soil biological processes in Nokrek biosphere reserve of Meghalaya	Dr. V. Ralte	Prof. H. N. Pandey
Ecological studies of some important tree species of subtropical humid forest of Meghalaya	Dr. N. Odyo	Prof. H. N. Pandey
Year of Awarded: 2003		
Studies on the environmental information in tree rings of some tree species growing in North-east India.	Dr. N. D. Singh	Dr. N. Venugopal
Development of an embryogenic system for mass propagation of <i>Pinus kesiyae</i> Royle ex. Gord. and field performance of the regenerants.	Dr. H. Choudhury	Prof. P. Tandon
VA mycorrhiza in different agricultural systems of Meghalaya	Dr. S. K. Parida	Prof. M. S. Dkhar (Supervisor) Prof. G. D. Sharma (Jt. Supervisor)
Studies on microbial communities in degraded and undegraded forest soils of Arunachal Pradesh	Dr. S. S. Singh	Prof. M. S. Dkhar (Supervisor) Dr. S. C. Tiwari (Jt. Supervisor)
Study of distribution pattern and ecological analysis of major forest types of Meghalaya	Dr. O. P. Tripathi	Prof. H. N. Pandey
Studies on plant biodiversity and ecosystem function in sacred groves of Meghalaya	Dr. K. Upadhyaya	Prof. H. N. Pandey
Isolation, Cloning and Molecular analysis of the legumin gene of common buckwheat (<i>Fagopyrum esculentum</i> Moench)	Dr. S. Bharali	Dr. N. K. Chrungoo
