

Papers presented in Workshops/Conferences/Meetings/Congress

International

1. A Ghose, V Nuzelu, D Gupta, H Kimoto, S Takashima, M Koketsu, L Rangan S Mitra (2024) Laccase enzyme derived from spent mushroom waste offers innovative strategy for degrading ciprofloxacin and norfloxacin antibiotics in wastewater. Japan-NER Bioeconomic Technology Cooperation Symposium, Indian Institute of Technology Guwahati, Guwahati, Assam, India P01
2. L Rangan (2023). Plastome mining of selected small genome sized plants. New Horizon in Biotechnology NHBT 2023, Trivandrum. 28 Nov, Invited Talk
3. BK Chetri, L Rangan*, S Mitra, A Senapati, RK Shelke (2023) Mapping Genome Size Variation in Medicinal Plants of South-Eastern Bhutan: Prospects for Genomic Study. International Conference on Biodiversity, Food Security, Sustainability and Climate Change (ICBFSCC- 2023), AAU-Jorhat 25-28 April 2023
4. R Idrishi, S Singha, L Rangan (2023) A review on Status and Extraction methods of Bioactive Compounds of Pigmented Rice Bran. 7th International Conference on Rice Bran Oil 2023, Hyderabad, India April, 22- 2023, 4th Position
5. G Bhatt, A Gupta, L Rangan, AM Limaye (2022) Karanjin exerts partial estrogen-like effects in breast cancer cells, International Conference on Recent Trends and Future Opportunities in Pharmaceuticals. National Institute of Pharmaceutical Education and Research (NIPER) S.A.S. Nagar (Mohali), Punjab, India November 10-12, 2022. PHARMACON 2022, pp 110.
6. G Bhatt, L Rangan, AM Limaye (2022) Karanjin: An aryl hydrocarbon receptor modulator in breast cancer cells, International Conference on Biotechnology, Sustainable Bioresources and Bioeconomy, Indian Institute of Technology Guwahati, Assam, India December 7-11, 2022, pp 308 (FPP- 225).
7. H Boro, M Hegde, L Rangan, R Swaminathan, A B Kunnumakkara (2022) Role of flavonoid 3,5-dihydroxy-7,4'-dimethoxyflavone in inhibiting cell proliferation and migration in colon cancer cell lines, International Conference on Biotechnology, Sustainable Bioresources and Bioeconomy, Indian Institute of Technology Guwahati, Assam, India December 7 -11, 2022, pp 307 (FPP- 223).
8. A Senapati, VF Kharchandy, L Rangan (2022) Genome size estimation of tree species from North-East India: A flowcytometric approach, International Conference on Biotechnology, Sustainable Bioresources and Bioeconomy, Indian Institute of Technology Guwahati, Assam, India December 7 -11, 2022, pp 213 (FPP- 043)
9. Nuzelu, L Rangan, R Swaminathan (2022) Monitoring Protein-DNA interaction using Protein Charge Transfer Spectra (ProCharTS), International Conference on Biotechnology, Sustainable Bioresources and Bioeconomy, Indian Institute of Technology Guwahati, Assam, India December 7 -11, 2022, pp 209 (FPP- 035).
10. R Idrishi, S Singha, L Rangan (2022) A comparative study of physical and nutritional characteristics of Assam Black Rice with Manipur Black rice (Var. Chakhao poreiton), International Conference on Biotechnology, Sustainable Bioresources and Bioeconomy, Indian Institute of Technology Guwahati, Assam, India December 7 - 11, 2022, pp 310 (FPP- 229).

11. R Singh, S Kumar, L Rangan (2022) In-vitro study of the Anti-viral activity of karanjin from *Pongamia pinnata* against Newcastle disease virus, International Conference on Biotechnology, Sustainable Bioresources and Bioeconomy, Indian Institute of Technology Guwahati, Assam, India December 7 -11, 2022, pp 209 (FPP-036).
12. S Senthilkumar, AN Panda, L Rangan, R Swaminathan (2022) Effect of pH and ions on absorption spectroscopic behaviour of Mammeigin in different solvent systems, Shotgun oral and poster presentation, 5th International Caparica Conference on Chromogenic and Emissive Materials, 2022, Caparica, Portugal. SG/PSG.09. pp 199.
13. A Singh, MZ Ansari, S Senthilkumar, L Rangan, R Swaminathan (2022) Enhanced solubility, electronic absorption and fluorescence observed for Karanjin in aqueous SDS micelles compared to water, Oral Presentation, 5th International Caparica Conference on Chromogenic and Emissive Materials, 2022, Caparica, Portugal. O.02CA. pp 126.
14. G Bhatt, A kumar, P Satpati, AM Limaye, L Rangan, Karanjin mediated regulation of estrogen target genes in MCF-7 breast cancer cells, International conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021), Malaviya National Institute of Technology, Jaipur, India. April 04-08, 2021
15. MK Gupta, J Rajkumari, L Rangan*, Synthesis and characterization of flavone-zinc complex compound and determination of its anti-biofilm efficacy, International conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021) Malaviya National Institute of Technology, Jaipur, India. April 04-08, 2021.
16. S Sanjana, L Rangan*, Spectroscopic investigations of Mammeigin from *Mesua ferrea* in understanding the structural dynamics under different solvent condition, A National Workshop on Fluorescence and Raman Spectroscopy (FCS-2020) IIT Bombay, Mumbai, India, December 7-12, 2020.
17. A Senapati, VF Kharchandy, L Rangan*, Genome Size estimation of woody tree species from North-Guwahati: A flow- cytometric approach, International conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021), Malaviya National Institute of Technology, Jaipur, India. April 04-08, 2021.
18. H Boro, L Rangan, R Swaminathan, Effect of pH and SDS micelles on the solubility and structural properties of the flavonoid 3,5-dihydroxy-7,4'-dimethoxyflavone isolated from *Alpinia nigra*, International conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021), Malaviya National Institute of Technology, Jaipur, India. April 04-08, 2021.
19. Nuzelu, L Rangan, R Swaminathan, Investigation of scIHF characteristics on protein charge transfer spectra (ProCharTS), International conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021), Malaviya National Institute of Technology, Jaipur, India. April 04-08, 2021.
20. MK Gupta, AK Chiranjivi, VK Dubey* **L Rangan***, " Study of Zinc derivatized 3,5-Dihydroxy, 4', 7-Dimethoxyflavone against *Leishmania* parasite", International conference on " Nutraceuticals and Chronic diseases" 2019, pp- 141, 2019 (oral presentation)
21. S Senthilkumar, R Swaminathan*, **L Rangan***, " Purification and Characterization of Mammeigin: A possible therapeutic neoflavonoid from *Mesua ferrea*", International

- conference on " Nutraceuticals and Chronic diseases" 2019, pp- 230, 2019 (poster presentation)
22. G Bhatt, A Kumar, **L Rangan***, AM Limaye*, " Insight into Estrogen Receptor alpha (ER-alpha) and ligands (Estrogen, Karanjin) interactions using Computer simulations", International conference on " Nutraceuticals and Chronic diseases" 2019, pp- 256, 2019 (poster presentation)
 23. **L Rangan*** (2019) Labdane diterpenes from seeds of *Alpinia nigra* as promising nutraceuticals. Fourth International Conference on Nutraceuticals and Chronic Diseases (INCD-2019) at Indian Institute of Technology (IIT) Guwahati, Assam, India during September 23-25th 2019 pp 58. (Invited Talk)
 24. **L Rangan** (2019), Basics of IPR. International workshop on empowerment and autonomy of women through a biobased circular economy design: resource recovery from waste. IIT Guwahati 25th July (Invited Talk)
 25. A Singh, **L Rangan** (2018) Mining of bioactive from seeds of Karanj. BRSI Convention November 22-24, IICT Hyderabad. (Invited Talk)
 26. **L Rangan (2018)**. Ethno-medicinal usage of Zingiberaceae- New Positives of Research in Field of Applied Biodiversity 31 August, Symbiosis Pune. (Invited Talk)
 27. **L Rangan**, R Das, RG Shelke (2018) Estimation of nuclear genome size and its correlation with *Ty1-copia* like LTR retrotransposon and cell phenotypic traits. Global Plant and Molecular Biology Conference (GPMB), Rome 20-23 Sep 2018. (Invited Talk)
 28. **L Rangan** (2018). Maintaining Biodiversity in North-eastern India: Ethno-medicinal usage of Zingiberaceae. Biovision Alexandria, Alexandria 20-22, Egypt. (Invited Talk)
 29. Ishani Chakrabartty, **L Rangan** (2018) *Alpinia nigra*: The unexplored ore of Zingiberaceae for future therapeutics; IJBS'17, 1st-4th February 2018, IIT Guwahati (**1st prize in Oral presentation**, Springer Award of 200 Euros), pp68
 30. Reshmi D, **Rangan L** (2018) Genome size and *Ty1 copia* retroelements in biofuel crops. 24th ISCB Frontier Research in Chemistry & Biology Interface, 11th-13th January 2018, Manipal University, Jaipur. pp176
 31. Chakrabartty I, Khare A, Panda AN, **Rangan L*** (2017) Vibrational spectroscopic studies of bioactive labdane diterpene from seeds of *Alpinia nigra* in conjugation with Cu nanoparticles; ICSIMR, 30th June-1st July 2017, IIT Guwahati, pp98
 32. R Das, **L Rangan** (2017) Variation in leaf anatomical characters and total chlorophyll content in *Mesua ferrea* during abiotic stresses. International Symposium on Plant Biotechnology for Crop Improvement (ISPBCI-2017), 20-21 Jan IIT Guwahati, pp 65
 33. RG Shelke, **L Rangan** (2017) Identification and characterization of long interspersed nuclear elements (LINEs) in *Pongamia*, *Ricinus* and *Jatropha*. International Symposium on Plant Biotechnology for Crop Improvement (ISPBCI-2017), 20-21 Jan IIT Guwahati pp 103
 34. S Basak, **L Rangan** (2017) Genome size and chromosome number: keys to unfold polyploidization in taxonomically complex Zingiberaceae International Symposium on Plant Biotechnology for Crop Improvement (ISPBCI-2017), 20-21 Jan IIT Guwahati, T-15; pp15 (Invited Talk)
 35. I Chakrabartty, A Khare, **L Rangan** (2016) Investigating the inhibitory effect and possible mode of action of (E) -labda- 8(17), 12-diene-15, 16 from *Alpinia nigra* on

- Candida albicans* at International Conference on Current Trends in Biotechnology organized by BRSI (8-10 December 2016) held at VIT University, Vellore.
36. I Chkrabartty, AN Panda, A Khare, **L Rangan** (2016) Raman spectroscopic studies of labdane diterpene, a bioactive compound from the seeds of *Alpinia nigra*. 22nd ISCB International Conference, 6-8 February 2016 Uka Tarsadia University, Surat, Gujrat pp.150
 37. A Singh, M Sharma, **L Rangan**, AN Panda (2016) Structural characterization and flow cytometric investigation of glabrin, a complex cyclic amino acid from seeds of Karanja. 3rd International Congress of the Society for Ethanopharmacology (SFEC 2016), India. Peer Reviewed Journal of Ravishankar University. 29, 1 (Special Issue), pp. 161.
 38. M Sharma, A Singh, **L Rangan**, AM Limaye (2016) Estrogenic effect of Karanjin in MCF-7 breast cancer cells. 3rd International Congress of the Society for Ethanopharmacology (SFEC 2016), India. Peer Reviewed Journal of Ravishankar University. 29, 1 (Special Issue), pp. 195.
 39. R Das, G Juerges, P Nick, **L Rangan** (2015) Flow cytometry based correlation of nuclear DNA content with cell phenotypic characters. In: Abstract book of International Conference on New Horizons in Biotechnology: 12th Annual Convention of The Biotech Research Society, India. 2015. Trivandrum, India, 22th-25th Nov. (2015) pp.341
 40. **L Rangan***, RG Shelke, A Singh, R Das, AM Ramesh, V Kesari (2015) Morphological, biochemical and genomic studies in *Pongamia*. Central University Hyderabad. Invited Talk
 41. **L Rangan** (2015). Energy recovery from waste legume. Indo-UK scientific seminar series, Jadavpur, Kolkata 11-14 Feb 2015
 42. D Yadav, L Barbora, T Rado, R Blanchard, **L Rangan**, P Mahanta (2015). Small Scale Anaerobic Digesters: A case study in UK and India. Bioenergy: An Engine for Economic Growth in the Global South? Organized by: Supergen Bio Energy HUb, USES Network, UKCDS in association with Imperial College of London, Durham University, University of Sussex, UK Energy Research Centre and Department of Energy & Climate Change. Date & Venue: 28 January 2015, Welcome Trust, London, UK.
 43. R Shelke, R Das, **L Rangan**. Evolution and distribution of LTR-retrotransposons in *Pongamia* and its correlation with genome size. 2nd International Conference on Biotechnology and Bioinformatics" (ICBB-2015), 6-8 Feb Pune 2015, pp 27-28. Oral presentation.
 44. A Singh, A Khare, A N Panda, **L Rangan**. Characterization of bioactive karanjin from seeds of Karanj. International Conference on "Medicinal Plants and Herbal Drugs for Human, 28-31 Jan, University of Madras, pp 77. **Best Poster Award**
 45. R Das, G Juerges, P Nick, **L Rangan**. Genome size of four biofuel crops. 4th International Science Congress, India, 8th- 9th Dec. 2014, Udaipur, p 67. Poster - 3BS – 12
 46. I Jahan, A Singh, A Khare, AK Panda, **L Rangan**. Isolation and structure elucidation of karanjin from seeds of *Pongamia pinnata*. 4th International Science Congress, India, 8th- 9th Dec. 2014, Udaipur, p 67. ISCA-ISC-2014- Poster-3BS-11

47. D Yadav, A Choudhary, D Bora, L Barbora, **L Rangan**, P Mahanta. Thermochemical and Organic Pretreatment of Local Lignocellulosic Bioresources for Energy Production. International Conference on Emerging Trends in Biotechnology (ICETB 2014) XI Convnetion BRSI, 6-9 Nov, New Delhi 2014, E-62
48. S Ghosh, **L Rangan** (2014) Unveiling the effect of plant derived labdane diterpenes as promising bactericidal and anticancer agents. 55th Annual American Society of Pharmacognosy meeting, August 2nd - 6th, 2014 in Oxford, Mississippi Planta Med 2014; 80 - PD30 DOI: 10.1055/s-0034-1382451
49. J Bennetzen, Tushar, S Chaluvadi, J DeBarry, M Estep, J Vaughn, **L Rangan** (2013) Sample sequence analysis for the discovery of genetic relatedness, genome composition and genome evolution in flowering plants. 5th Intl Barcode on Life Conference, 27-31, Kunming, China.
50. S Basak, AM Ramesh, **L Rangan** (2012) Ploidy levels of potential biodiesel crops determined by flow cytometry. World Congress on In Vitro Biology, Seattle, USA, 3-7 June 2012, pp. 3001 (poster presentation)
51. AM Ramesh, Tushar, **L Rangan** (2012) Next generation sequencing and selective analysis of non-coding DNA in *Pongamia pinnata* Industrial conference on industrial biotechnology Nov 21-23, 2012, Patiala, pp210.
52. Tushar, Srinivasa Chaluvadi, J Bennetzen, **L Rangan** (2012) Comparative study of selective population of junk DNA among Zingiberaceae members. Industrial conference on industrial biotechnology Nov 21-23, 2012, Patiala, pp230.
53. S Basak, **L Rangan** (2012) Genome size estimation for selected species of Zingiberaceae from NE India. 6th International symposium on the family Zingiberaceae Sep 10-13 2012, Calicut, pp24.
54. S Ghosh, U Bora, **L Rangan** (2012) Phytochemical analysis and anticancer property of seed extracts of *Alpinia nigra* (Gaertn.) B.L.Burt. 6th International symposium on the family Zingiberaceae Sep 10-13 2012, Calicut, pp38.
55. **L Rangan** (2012) "Expanding Horizons in Chemical and Biological Sciences: Innovations Crossroads" 17th ISCB International Conference (ISCB-2012), 21st-24th January, 2012, Solapur (**ISCB Young Scientist Award Lecture in area of Biological Sciences**)
56. Tushar, Srinivasa C Rao, Jeffrey Bennetzen, **L Rangan** (2011) Mining of Zingiberoideae plastid genome for assessment of phylogenetic relationships. Plant Genome Evolution, Amsterdam, Netherland, 4-6 Sep 2011, pp. 1.6 (Poster presentation)
57. S Ghosh, **L Rangan**, U Bora (2010) Biodiversity, biorepositories and biobanking in India. International Workshop on Biodiversity and Climate Change 2010, 19-22nd Dec 2010, IIT Kharagpur, pp.50-51 (Poster presentation) (**AWARDED SECOND BEST POSTER AWARD**)
58. V Kesari, **L Rangan*** (2010). Systematic evaluation of candidate plus trees (CPTs), seed oil analysis and propagation techniques in *Pongamia pinnata* (l.) pierre, an alternative biodiesel crop occurring in North Guwahati, Assam, India. Bioenergy Systems Research Initiative, 2010 Annual Retreat, 15th November, UGA Athens pp. 38 (Poster presentation)
59. S Basak, Tushar, A Das, V Kesari, VK Dubey, **L Rangan*** (2010) Phylogenetic analysis in Zingiberaceae native to Northeast India using RAPD markers.

- International Conference on Genomic Sciences-Recent Trends (ICGS-2010), 12-14th November, 2010, MKU, Madurai, pp 120. (Poster presentation)
60. AM Ramesh, V Kesari, **L Rangan*** (2010) Characterization of *Rhizobium pongamiae* sp. nov., isolated from root nodules of Biodiesel plant *Pongamia pinnata*. International Conference on Genomic Sciences-Recent Trends (ICGS-2010), 12-14th November, 2010, MKU, Madurai, pp 112. (Poster presentation)
 61. A Nath, A Das, **L Rangan**, A Khare (2010) Antibacterial activity of copper oxide nanoparticles synthesized via laser ablation in liquids., Xth International Conference on Fiber Optics and Photonics, 11-15th December, IIT Guwahati pp. 427 (Poster presentation)
 62. Nath, A. Das, **L Rangan** and Alike Khare, Antibacterial activity of copper oxide nanoparticles synthesized via laser ablation in liquids? Proceeding of International Conference IISC-10 organised by? Jamia Millia Islamia? Delhi, December 2010
 63. A Jain, S Hallihosur, **L Rangan*** (2009) Nanotechnology patenting: An Indian Scenario. Ist International Conference on Advanced Nanomaterials and Nanotechnology (ICANN-2009), Dec 7-9th 2009, IIT Guwahati, Assam, p.80 (Oral Presentation)
 64. **L Rangan*** (2009) Significance of translation initiation factor (eIF) in stress response of crop plants. International conference on Emerging Trends in biotechnology. 6th BRSI Annual Convention, Dec 4-6th 2009, BHU, Varanasi, p.279 (Poster presentation)
 65. V Kesari, **L Rangan*** (2009) Anatomical and biochemical changes during seed maturation and germination in biofuel crop, *Pongamia pinnata* L. International conference on Emerging Trends in biotechnology. 6th BRSI Annual Convention Dec 4-6th 2009, BHU, Varanasi, p.231-232 (Poster presentation)
 66. A Das, **L Rangan*** (2009) Effect of plant growth regulators and culture conditions on shoot multiplication in three medicinally important *Zingiber* species of Northeast India. International conference on Emerging Trends in biotechnology. 6th BRSI Annual Convention, Dec 4-6th 2009, BHU, Varanasi, p.095-096 (Poster presentation)
 67. **L Rangan***, V Kesari (2009) *Pongamia pinnata*- Sustainable Source of Feedstock for Biofuel. TWAS Regional Young Scientist Conference, Food, Health and Fuel: Plants for the future, Nov 2-5th, Malaysia p.47 (Poster presentation) (**AWARDED BEST POSTER AWARD**)
 68. V Kesari, D Suman, **L Rangan*** (2009) Physiological and phylogenetic characterization of *Rhizobium radiobacter* sp. nov. isolated from root nodules of a potential biodiesel crop - *Pongamia pinnata*. TWAS Regional Young Scientist Conference, Food, Health and Fuel: Plants for the future, Nov 2-5th 2009, Malaysia p.23 (Oral Presentation).
 69. A Das, V Kesari, **L Rangan*** (2009) Antimicrobial activity of rhizome extracts of some important gingers of Northeast India. TWAS Regional Young Scientist Conference, Food, Health and Fuel: Plants for the future, Nov 2-5th 2009, Malaysia p.71 (Poster presentation).
 70. **L Rangan***, A Rout, M Sudarshan, G Gregorio (2009) Role of translation initiation factor (eIF1) gene in salt stress response in rice. 5th International Rice Genetics Symposium (Poster presentation)

71. A Das, V Kesari, MS Vinod, A Parida, **L Rangan*** (2008) Genetic diversity analysis of *Curcuma* species of Northeast India using RAPD and SSR markers. International conference on Plant Biotechnology and Molecular Biology, Aug 15-17th Warangal, Andra Pradesh. p87. (Poster presentation).
72. S Aggarwal, A Das, V Kesari, M Sudarshan, MS Vinod, A Parida, GC Sharma, **L Rangan*** (2008) Use of plastid specific DNA Barcodes to identify and characterize the *Curcuma* species of Northeast India. International conference on Plant Biotechnology and Molecular Biology, Aug 15-17th Warangal, Andra Pradesh Warangal. p87. (Poster presentation).
73. S Agarwal, A Das, V Kesari, GC Sarma, **L Rangan*** (2008). Use of DNA Barcodes to identify *Curcuma* sp of Northeast India. International Conference on Emerging Technologies and Applications in Engineering, Technology and Sciences, ICETAETS 2008, Jan 13-14th 2008, Rajkot, p. (Oral presentation).
74. V Kesari, A Das, A Krishnamachari, **L Rangan** (2008). Extraction and physico-chemical properties of seed oil from candidate plus tree of *P. pinnata*. International Conference on Emerging Technologies and Applications in Engineering, Technology and Sciences, ICETAETS 2008, Jan 13-14th 2008, Rajkot, p. 2116. (Oral presentation)
75. **L Rangan***, M Jaiswal, M Prasanna. (2007). Resonant Recognition model for prediction of lead in regions in proteins. Frontiers in convergence of Bioscience and Information Technologies, Oct 11-13th 2007, Jeju Island, Korea, p.24. (Oral presentation)
76. **L Rangan*** (2006). Building public-private partnership in agricultural biotechnology. 4th International Symposium on Biotechnology and Biocontrol, Nov 27-29th 2006, Madurai, TN, India, p. 174. (Oral presentation).
77. **L Rangan***, AK Srivastava, C Vogel. (2006). Consensus sequence and its significance in the sequenced genome of rice, *O. sativa*. 2nd International Rice Congress, Oct 9-14th 2006, New Delhi, India, p. 103. (Oral presentation)
78. SN Mishra, **L Rangan***, S Mitra (2006). Inventory of methane and nitrous oxide emission from agricultural soils of India: Assam as a case study. 2nd International Rice Congress, Oct 9-14th 2006, New Delhi, India, p. 461 (Poster presentation).
79. V Kesari, **L Rangan*** (2006). *In vitro* propagation of potential biodiesel plant, *Pongamia pinnata* (L.) Pierre. International conference on biofuel vision 2015, Oct 13-15th 2006, Bikaner, India, p. 169. (Oral Presentation).
80. **L Rangan**, R Rubia, R Abdullah, J Bennett, S Daskalova, A Gaudinova, M Kaminek, GS Khush, AC McCormac, S Peng, NW Scott, C-L Zhang, MC Elliott (2003) Enhancement of Cereal Grain Yield by Genetic Manipulation of Phytohormone Levels. MSSRF Inter-Disciplinary Dialogue Fifty Years After the Discovery of the DNA Double Helix The Legacy of Watson and Crick, Jan 9-12th 2003, Chennai, India, p. 5. (Plenary presentation).
81. MC Elliott, R Abdullah, J Bennett, NE Borlaug, MR Fowler, GS Khush, M Kaminek, S Peng, L Rubia, NW Scott, A Slater, C-L Zhang, **L Rangan*** (2003) Crop Biotechnology is Under Siege: We are Not Tuning a Cosy Consensus (Plenary Lecture). MSSRF Inter-Disciplinary Dialogue Fifty Years After the Discovery of the DNA Double Helix The Legacy of Watson and Crick, Jan 9-12th 2003, Chennai, India, p. 3 (Plenary presentation).

82. **L Rangan***, R Abdullah, L Rubia, N Scott, A Slater, M Flower, S Daskalova, C L Zhang, M Elliott (2003). Clean-gene transformation vectors with senescence-specific and endosperm-specific promoters for rice genetic manipulation. International Society for Plant Molecular Biology Conference, June 22-27th 2003, Barcelona, Spain, p. 164. (Poster presentation).
83. Rubia L, **L Rangan**, Abdullah R, Kaminek M, Scott N, Slater A, Elliott M (2003). Effects of expression of the cytokinin gene under the control of senescence and endosperm-specific promoters in transgenic rice. International Society for Plant Molecular Biology Conference, June 22-27th 2003, Barcelona, Spain. p.159 (Poster presentation).
84. R Abdullah, **L Rangan**, L Rubia, CL Zhang, N Scott, M Elliott (2003). Towards a higher rice yield potential via *Agrobacterium*-mediated gene transfer. International Society for Plant Molecular Biology Conference, June 22-27th 2003, Barcelona, Spain, p. 159 (Poster presentation).
85. CL Zhang, S Daskalova, XC Jiang, A Sorokin, L Rubia, **L Rangan**, M Mishra, M Fowler, J Bennett, G Khush, SB Peng, N Scott, A Slater, M Elliott (2003). Genomic/transgenic approaches to cereal improvement. International Society for Plant Molecular Biology Conference, June 22-27th 2003, Barcelona, Spain, p. 158 (Poster presentation).
86. **L Rangan***, H Hosseini, J Bennett, MS Swaminathan, MC Elliott (2002). Protein changes in response to salt stress in *Porteresia coarctata* Tateoka. International Rice Congress, Sep 16-20th 2002, Beijing, China, p. 323. (Poster presentation).
87. **L Rangan**, S Hosseini, J Bennett, MS Swaminathan, MC Elliott, NW Scott (2002). Molecular Cloning and Expression of Stress-Responsive eIF1 Gene in *Porteresia coarctata* Tateoka. 10th International Association of Plant tissue culture and Biotechnology Congress, June 23-28th 2002, Orlando, Florida, USA, 49-A. (Poster presentation).
88. MC Elliott, J Bennett, NE Borlaug, S Daskalova, MR Fowler, X-C Jiang, M Kaminek, GS Khush, AC McCormac, MK Mishra, SB Peng, **L Rangan**, L Rubia, NW Scott, A Slater, CL Zhang (2002) Rice Biotechnology Versus the Anti-science Zealots (Plenary Lecture). International Rice Congress 2002, Sep 16-20th 2002, Beijing, China, p 121. (Plenary talk).
89. S Hosseini, **L Rangan**, A Arif, L Wade, R Lafitte, G Gregorio, B Ghareyazie, J Bennett (2000). A proteomics approach to enhancing drought and salinity tolerance in rice. Symposium on Improving Tolerance to Abiotic Stresses in Rainfed Lowland Rice. International Rice Research Institute, Oct 21-22nd 2000, Los Banos, Philippines p. (Oral presentation).
90. **L Rangan**, S Constantino, GS Khush, MS Swaminathan, J Bennett (2000). Applicability of PCR-based technique for mining of stress genes in rice and related genera's. 23rd International Rice Research Conferences. International Rice Research Institute, 30th March -4th April 2000, Los Banos, Philippines, p. (Poster presentation).
91. CS Rao, P Eganathan, A Anand, **L Rangan**, P Balakrishna (1998). Application of biotechnology and classical breeding methods in the genetic enhancement of mangroves. International Symposium on Mangroves Ecology and Biology, April 25-27th 1998, Kuwait, p. (Plenary talk).

92. **L Rangan**, CS Rao, R Finch, P Balakrishna (1996). Micropropagation studies in wild relative of rice, *Porteresia coarctata* (Roxb.) Tateoka. 2nd International Crop Science Congress, Nov 17-24th 1996, New Delhi, India, p. (Poster presentation).

National

1. R Singh, S Kumar, **L Rangan** (2024) Karanjin as a promising antiviral against NDV – insights from in-vitro, in-silico, and in-ovo studies. Winter Symposium & SouthZone MICROCON 2024, Christian Medical College, Vellore, Tamil Nadu, India, February 01-03, 2024, pp 69.
2. Idrishi R, Singha S, **Rangan L** (2024), "Unveiling the tapestry of Black rice of Assam and Manipur, India", on the theme of the Compendium: "A Fine-Grained Heritage- Rice in India's historical, cultural and aesthetic landscapes" _ , by Indian Culinary Agenda (ICA), Editors: Tanushree Bhowmik & Om Routray, presented at ICA Weekend, 6-7th of April 2024 at the India International Centre, Delhi.
3. Nuzelu, **L Rangan**, R Swaminathan (2023) Monitoring Protein-DNA interaction using Protein Charge Transfer Spectra (ProCharTS). 45th Indian biophysical society meeting, NCBS Bangalore, 27th -29th March 2023.
4. R Idrishi, S Singha, **L Rangan** (2023) Black rice starch: A nutritive alternative to conventional starch sources. Research and Industrial Conclave- Integration 2023, IIT Guwahati, Assam India
5. L Rangan (2021) Flow Mining for Genome Size Estimation 22nd Indo US Flow Cytometry Workshop 22-28 Feb 2021
6. **L Rangan** (2021) Homeopathy & Traditional Medicine: Herbals & High Dilution of Drugs for Human Health and Agriculture. 20th January Live Webinar
7. L Rangan (2020). Role biotechnology in understanding the impact of climate change on plants. 8 Dec 2020 CRT, IIT Guwahati (Webinar)
8. L Rangan (2020) Bio-economy Research & Innovation for Post COVID world 5th NORTHEAST GREEN SUMMIT 2020 Nov 16-18, 2020
9. L Rangan (2020) Mining Pongamia alias 'Karanj'- Journey So Far. "National Seminar in Women in Science- The Northeast Chapter" 7 Nov 2020, Tripura University. (Webinar)
10. L Rangan (2020) Herbal therapeutic product development. Delivered talk in QIP sponsored event on "Tools and practices for New Product Development for food and bio Industries" 6 Nov 2020 CRT, IIT Guwahati (Webinar)
11. L Rangan (2020) Zingiberaceae: Ethno-medicinal usage and Genome variation. Webinar, Mizoram University, 7 Sep 2020
12. **L Rangan** (2020) GM Seeds and IPR: Two opposite sides of the same coin. Webinar Talk on Two Days Webinar Symposium NERIST 4 Aug 2020
13. **L Rangan**. Basics of IPR. Delivered lecture in IPR Conclave, USTM 16 August 2019
14. Das Reshmi, **L Rangan*** (2019) Stress evaluation in non-edible oil crops – anatomical, physiological and phytochemical approach; Indian Plant Science Congress (IPSC'19), 23rd – 25th January 2019, pp 45
15. Shelke Rahul G, **L Rangan *** (2019) Identification and characterization of genetic repeat elements from Pongamia pinnata for genetic diversity analysis; Indian Plant Science Congress (IPSC'19), 23rd – 25th January 2019, pp 51

16. Sadokpam Shreekant, Chakrabartty Ishani, **L Rangan** * (2019) Anti-bacterial susceptibility assessment of microemulsion formulation of labdane from *Alpinia nigra*; Indian Plant Science Congress (IPSC'19), 23rd – 25th January 2019, pp 108
17. Gupta Manish Kumar, **L Rangan** (2019) 3,5-dihydroxy-4'7-dimethoxyflavone: structural characterization, enzyme kinetics, and in-silico approach against melanogenic activity; Indian Plant Science Congress (IPSC'19), 23rd – 25th January 2019, pp 115
18. Chakrabartty Ishani, Kalita Naba Kumar, Katiyar Vimal, **L Rangan** (2019) Physico-rheological characterization of organically derived seed samples from *Alpinia nigra*; Indian Plant Science Congress (IPSC'19), 23rd – 25th January 2019, pp 116
19. Singh Anuma, Ansari Mohd. Ziauddin, **L Rangan***, Swaminathan Rajaram* (2019) UV-visible absorption and fluorescence spectra of Karanjin in different solvents and solvent mixture; Indian Plant Science Congress (IPSC'19), 23rd – 25th January 2019, pp 117
20. SenthilKumar Sanjana, **L Rangan***, Swaminathan Rajaram* (2019) Effect of extraction solvent system on the native structure of the plant metabolites: A study on para-coumaric acid from *Mesua ferrea*; Indian Plant Science Congress (IPSC'19), 23rd – 25th January 2019, pp 117
21. **L Rangan** (2018) Applied Biodiversity for Ensuring Food and Health Security. Invited Talk. Workshop on Ecosystem Approaches to Food and Water Security for Rural Livelihoods. 10 Sep 2018, IIT Guwahati
22. Gupta MK, **L Rangan** (2018) 3,5-dihydroxy-4'7-dimethoxyflavone: Isolation and characterization from *Alpinia nigra*. Trends in Biochemical and Biomedical Research (TBBR), 13th – 15th February 2018, Banaras Hindu University, Varanasi. pp143
23. Rahul GS, **L Rangan**. Study of expression of repetitive elements and their application for gene linked marker development in *Pongamia pinnata*; Genomics Analysis & Technology Conference (GATC 2018), 7th -9th January 2018, Guwahati University
24. Chakrabartty I, Panda AN, Khare A, **L Rangan** (2017) FT-IR, FT-Raman, NMR and SERS studies of labdane diterpene from *Alpinia nigra* National Workshop on Fluorescence and Raman Spectroscopy (FCS), 17th – 21st December 2017, IIT Guwahati, pp 123.
25. Singh A, **L Rangan**, Swaminathan R (2017). UV-Visible absorbance and fluorescence of KARANJIN in different solvents and solvent mixtures. National Workshop on "Fluorescence and Raman Spectroscopy (FCS 2017)", 17th to 21st December 2017, IIT Guwahati,
26. Chakrabartty I, **L Rangan** (2017) Understanding the unique inhibitory potential of (E)- labda – 8 (17), 12 – diene – 15, 16 – dial, a bioactive compound from *Alpinia nigra*, on the growth kinetics of *Candida albicans* Bioprocessing India, 9th – 11th December 2017, IIT Guwahati 2017 pp84
27. Chakrabartty I, Vijayasekhar A, **L*Rangan** (2017) Viability assessment of bacteria under the treatment of (E)-labda-8(17), 12-diene-15, 16-dial, a bioactive compound from the seeds of *Alpinia nigra*; TRNPTU, 21st November 2017, IASST Guwahati , pp 13 (**1st Prize in Best Poster Category**)
28. Sadokpam S, Chakrabartty I, **L*Rangan** (2017) Formulation strategies and anti-candidal assessment of a labdane-type diterpene from *Alpinia nigra*; TRNPTU, 21st November 2017, IASST Guwahati , pp24

29. R Das, **L Rangan*** (2017). Assessment of genome content, chromosome number and cell phenotypic features in *Mesua ferrea* L. In: Abstract book of Research conclave, IIT Guwahati, India. Pp 64.
30. S. Sanjana, R. Swaminathan*, **L Rangan*** (2017). Downstream processing of polyphenols from medicinal plants: A review. In: Abstract book of Research conclave, IIT Guwahati, India. Pp 65.
31. S. Sanjana, R. Swaminathan*, **L Rangan*** (2017). Economical Rotary Evaporator. Abstract book of Research conclave, IIT Guwahati, India. Model presentation Pp 65.
32. Chakrabartty I, **L Rangan *** (2017) (E)-labda-8(17), 12-diene-15,16 dial from *Alpinia nigra*: Is it a potential agent against *Candida albicans*?; 3rd Research Conclave , 16th- 19th March 2017, IIT Guwahati , pp 106 (**Departmental Winner in Best Poster Category**)
33. Vijayshekhar A, Chakrabartty I, Khare A, **L Rangan *** (2017) Effect of labdane diterpene dialdehyde -a bioactive compound from the seeds of *Alpinia nigra*, on erythrocytes; 3rd Research Conclave , 16th- 19th March 2017, IIT Guwahati , pp 96
34. Shelke RG, **L Rangan** (2017) Identification and characterization of Long interspersed nuclear elements (LINEs) in *Pongamia*, *Ricinus* and *Jatropha*. Research Conclave'17, 16th-19th March, 2017, IIT Guwahati, India.
35. I Chakrabartty **L Rangan** (2016), Isolation, identification and flow cytometric investigation of DNA leakage from *Candida albicans* upon treatment with (E) – labda- 8(17), 12-diene-15, 16 from *Alpinia nigra* at 9th TCS annual event and flow cytometry workshop in flow applications in basic, applied and clinical biology (3-5 November 2016) held at IIT Guwahati.
36. R Das, **L Rangan** (2016) Estimation of nuclear genome size, chromosome number determination and cell phenotypic investigation in *Mesua ferrea* L., a valuable biodiesel plant 9th TCS annual event and flow cytometry workshop in flow applications in basic, applied and clinical biology (3-5 November 2016) held at IIT Guwahati.
37. S Mahato, A Singh, **L Rangan**, CK Jana (2016) Synthesis, *in silico* studies and in vitro evaluation for antioxidant and antibacterial properties of diarylmethylamines: a novel class of structurally simple and highly potent pharmacophore 9th TCS annual event and flow cytometry workshop in flow applications in basic, applied and clinical biology (3-5 November 2016) held at IIT Guwahati.
38. AJ Bora, R Das, VS Mohalkar, **L Rangan** (2016) Flow cytometry based genome size estimation of most potent invasive weeds as a new feedstock for biorefinery 9th TCS annual event and flow cytometry workshop in flow applications in basic, applied and clinical biology (3-5 November 2016) held at IIT Guwahati.
39. **L Rangan**, A Singh, RG Shelke, R Das, AM Ramesh, V Kesari, P Scott & P Gresshoff (2015) New positives of biotech research in renewable energy resources- Success story of *Pongamia* In: Proceedings National Seminar on Biofuel A Search for New Fire SIBBR&D, Cochin 17-18 Dec 2015 , pp 22-25
40. Sudipta Ghosh and Latha Rangan* (2014) Application of Flow Cytometry on Biological Evaluation of Labdane Diterpenes from *Alpinia nigra* TCS Annual Cytometry Meet AIIMS 25-27 Oct 2014
41. AM Ramesh, V Kesari, **L Rangan** (2014) Characterization of a stearyl-acyl carrier protein desaturase gene from potential biofuel plant, *P. pinnata*. National conference on SCIENCE OF OMICS FOR AGRICULTURAL PRODUCTIVITY:FUTURE PERSPECTIVES. March

- 4-6, 2014. Silver Jubilee year Pantnagar Biotechnology programme, G.B.Pant University of Agriculture & Technology, Pantnagar (Uttarakhand).pp 181. (***Student Awarded Young Scientist Award for the best paper, poster in area of Biochemistry and Mol Bio***).
42. P Gupta, **L Rangan** (2014) Investigating the contextual bias around TIS in plants and a comparative analysis thereof between monots and dicots. National conference on SCIENCE OF OMICS FOR AGRICULTURAL PRODUCTIVITY: FUTURE PERSPECTIVES. March 4-6, 2014. Silver Jubilee year Pantnagar Biotechnology programme, G.B.Pant University of Agriculture & Technology, Pantnagar (Uttarakhand). pp 51
 43. S Basak, **L Rangan** (2014). Genetic diversity and nuclear DNA content in Turmeric of Northeast India. National conference on “Perspectives & trends in Plant Sciences and Biotechnology (PTPB-2014)” Punjab University, Chandigarh 160014 & Society for Plant Research, India Feb 21-23, 2014, pp 145. ***Poster Award*** (Consolation Prize) in the Session Molecular Biology and Genomics
 44. Rahul G Shelke, AM Ramesh, **L Rangan** (2014). Identification and characterization of Copia like retrotransposons from the genome of *P. pinnata*. National conference on “Perspectives & trends in Plant Sciences and Biotechnology (PTPB-2014)” Punjab University, Chandigarh 160014 & Society for Plant Research, India Feb 21-23, 2014, pp 120.
 45. Singh, A.; **Rangan, L.** (2013). Isolation and characterization of bioactive compounds from the seeds of *P. pinnata*. 5th IYSC, 6-9 Dec 2013, Santiniketan, WB, pp. 51.
 46. **L Rangan** (2013) Application and advances made in flow Cytometry in Plant Sciences. Young Scientist vision on Scientific Excellence, 5th IYSC 6-9 Dec, Santiniketan, Viswa Bharti, WB. (Invited Talk- Panel Discussion)
 47. A Krishan, **L Rangan** (2013) Flow Cytometry and Plant DNA analysis. 14 Indo US Workshop on Flow Cytometry, 28-30 October, SRM, Chennai (Workshop Mentor and Invited Talk)
 48. **L Rangan**, V Kesari, AM Ramesh, R Shelke, A Singh (2013) Advancement in Potential Tree Legume- *Pongamia pinnata*. National Seminar on Tree Biotechnology 2013, 23-24 September, Coimbatore, TN.(Invited Plenary Talk)
 49. L Rangan (2012). Genome mining in Zingiberaceae. Presented in colloquium of DBT’S Overseas associates of NE Region 20 Dec Khanapara, Assam.
 50. R Choudhury, R Swaminathan, **L Rangan** (2012) Comparative flow cytometric estimation of nuclear genome size of *Pongamia pinnata* and *in vitro* raised plants. 5th Annual Meeting of the Cytometry Society, October 12-13, Kolkata pp36 (poster presentation).
 51. **L Rangan** (2012) Characterization of *Pongamia pinnata* - a versatile legume. 99th Indian Science Congress, Invited lecture in section of Plant Sciences Jan 3-7th 2012, Bhubneshwar. p.30 (Oral presentation) (***Prof Hiralal Chakravarty Memorial Award Lecture in Plant Sciences***).
 52. **L Rangan**, V Kesari, MS Vinod, A Parida (2012) Molecular markers based characterization in versatile forest tree species, *P. pinnata* 99th Indian Science Congress, Jan 3-7th 2012, Bhubneshwar. p.49 (Oral presentation in Agriculture Section).
 53. S Basak, A Nandy, **L Rangan** (2011) Inhibition studies of cellulolytic activities isolated from *Fusarium oxysporum*. National symposium on ‘Microorganisms and plant health’ 24th Annual general meeting of Indian Phytopathological society Nov 04-05 2011, Gauhati University, Assam, pp 46 (Oral presentation).

54. V Kumar, S Ghosh, V S Hedao, U Bora, **L Rangan** (2011) Physico-chemical characterization and antimicrobial activity from rhizome essential oil of *Alpinia nigra*. 3rd Edition of Indian Youth Science Congress, Nov 3-5th 2011, Delhi. p.67 (Poster presentation)
55. V S Hedao, S Basak, V Kumar, S Ghosh, U Bora, **L Rangan** (2011) Molecular marker based characterization in *Alpinia nigra*. 3rd Edition of Indian Youth Science Congress, Nov 3-5th 2011, Delhi. p.18 (Oral presentation)
56. AM Ramesh, V Kesari, **L Rangan** (2011) *Rhizobium pongamiae* sp. nov., from root nodules of a versatile legume *Pongamia pinnata* L. Paper presented in National Seminar on Emerging Trends in Biotechnology, 24-26 September, 2011, p. 97-98.
57. AM Ramesh, A Das, N Kasoju, U Bora, **L Rangan** (2011) Chemical and biological investigation of essential oil of *Z. moran*, an endemic species from Northeast India. Paper presented in National Seminar on Emerging Trends in Biotechnology, 24-26 September, 2011, p. 163-164
58. V Kesari, A Das, **L Rangan*** (2010) Genetic relationship of *Curcuma* species from North East India using PCR based markers. National Conference on Innovations in Biotechnology, 7-8th October 2010, Chennai, pp. (Oral Presentation) (Nominated for C.V. Jacob Award for the best Original Paper Presentation for Plant Biotechnology & Spices).
59. A Das, N Kasoju, U Bora, **L Rangan*** (2010) Biochemical, antimicrobial and pharmacological screening of flavanoids from *Z. moran* of Northeast India. (Oral presentation) National Conference on Emerging Trends in Biopharmaceuticals: Relevance to Human Health & 4th Annual Convention of Association of Biotechnology and Pharmacy, 11-14th November 2010, Thapar University, Patiala, pp. 34.
60. V Kesari, AM Ramesh, **L Rangan*** (2010). Characterization in candidate plus trees (CPTs) of *Pongamia pinnata* (L.) Pierre, a versatile legume from North Guwahati, - A review. 33rd Conference of Indian Botanical Society and International Symposium on the New Horizons of Botany, 10th-12th Nov 2010, Shivaji University, Kolhapur, Maharashtra. p 217. (Poster presentation)
61. Tushar, S Aggarwal, MS Vinod, A Parida, **L Rangan*** (2010). Mining of *Curcuma* species from Assam using plastid specific DNA barcodes. First National Conference on Biotechnology, Bioinformatics and Bioengineering, 17-18th December 2010, Dharmapuri, Tamil Nadu, pp. 39
62. V Kesari, S Ramachandran, AM Ramesh, MS Vinod, A Parida, **L Rangan***(2010). Morphological and biomolecular approach in CPTs of *P. pinnata*, a promising crop from North Guwahati. 2nd Edition of Indian Youth Science Congress, June 26-28th 2010, Chennai. p.119 (Poster presentation) (**AWARDED BEST POSTER IN ENERGY AND ENVIRONMENTAL SCIENCE**)
63. V Kesari, MS Vinod, A Parida, **L Rangan** (2009) Genetic diversity studies in candidate plus trees of biodiesel plant *Pongamia pinnata* using molecular markers. 96th Indian Science Congress, Jan 3-7th 2009, NEHU Shillong. p.39 (Poster presentation).

64. **L Rangan**, C Vogel, AK Srivastava (2008). Context sequence and their prediction of start codon. 95th Indian Science Congress, Jan 3-7th 2008, Vishakapatnam. p.7 (Oral presentation).
65. S Saurav, R Anand, **L Rangan** (2007). GM Seed and Biodiversity: Two opposite sides of IPR. National Seminar on biodiversity exploration, utilization and conservation of natural resources with special reference to North East India, North East Biotech Consortium, ERD Foundation, Dec 18-19th 2007, Guwahati, p.20 (Oral presentation).
66. **L Rangan** (2006). Introduction to Intellectual Property Rights. Regional Seminar on Awareness Programme on Intellectual Property Rights and Patents for Capacity Building for Northeast. Sep 15-17th 2006, IIT Guwahati. (Oral presentation).
67. Rao CS, Radha R, Eganatha P, Shankar HMS, **L Rangan**, Kesavan PC. (2001). National symposium on "Strategies and modern tools for the conservation of medicinal plants". *National Symposium on Medicinal Plants*-. Department of Botany, St. Joseph's college (Autonomous). Feb 5-6th 2001, Tirchnapalli p:01-02 (Oral presentation).
68. **L Rangan**, Balakrishna P. (1998). Analysis of genetic relationship using AFLP markers for wild rice, *Porteresia coarctata* T. Ist National Plant Breeding Congress. July 1-3rd 1998, Coimbatore p. (Oral presentation).