

FACULTY PROFILE

N. M. KRISHNAKUMAR

Designation: Assistant Professor

Qualification: M. Sc., Ph. D (Thesis submitted)

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EDUCATIONAL QUALIFICATION

- M. Sc. (Mahatma Gandhi University, Kottayam) (2006)
- Ph. D (Thesis submitted) (University of Kerala, Trivandrum) (2017)

WORK EXPERIENCE (RESEARCH/TEACHING)

- Assistant Professor (Rajagiri College of Social Sciences, Kalamassery, Kochi) 2018 –Till date.
- Project Assistant (Presentation College of Applied Sciences, Puthenvelikkara, Ernakulam) 2017 - 2018.
- Research Scholar (Jawaharlal Nehru Tropical Botanic Garden and Research Institute (JNTBGRI), Palode, Trivandrum) 2016-2017.
- Senior Research Fellow (SRF) (University of Kerala, Trivandrum) 2015-2016.
- Junior Research Fellow (JRF) (University of Kerala, Trivandrum) 2013-2014.
- Junior Research Fellow (JRF) (Jawaharlal Nehru Tropical Botanic Garden and Research Institute (JNTBGRI), Palode, Trivandrum) 2008-2013.
- Project Trainee (Centre for Plant Biotechnology and Molecular Biology (CPBMB), Kerala Agricultural University (KAU), Thrissur) 2008.

AREA OF INTEREST (RESEARCH/TEACHING)

- Mushroom Cultivation Technology
- ProBiotic Food Products and Health Drinks
- Tissue culture of medicinal, aromatic and ornamental plants
- Pre-clinical studies of plant extracts/Polyherbal formulations

- Development of herbal drugs/Nutraceuticals
- Ethnopharmacology
- Phytochemistry and Pharmacognosy
- Development of Innovative Products

RESEARCH PROJECTS

- Co-Investigator of the Minor Research Project entitled ‘Documentation of Rajagiri Campus Plant Diversity’ under Faculty Research Programme of RCSS, Kalamassery (2019-2020).
- Co-Investigator of the Major Project entitled ‘Skill Development Programme for Interdependent Micro-entrepreneurial Clusters’ funded by ICSSR, New Delhi (2019).
- Project Assistant of the Major Project entitled ‘Survey on proper utilization of *Garcinia gummi-gutta* seed oil as therapeutic, edible in Konkan region of Goa and Kerala’ funded by DST, New Delhi (2017 – 2018).
- SRF of the Project ‘Immunomodulatory and antioxidant potential of *Morinda umbellata* L. – a traditionally important medicinal liana’ University of Kerala, Trivandrum (2015-2016).
- JRF of the Project ‘Immunomodulatory and antioxidant potential of *Morinda umbellata* L. – a traditionally important medicinal liana’ University of Kerala, Trivandrum (2013-2014).
- JRF of the Project entitled ‘Search for anti-diabetic, immunomodulatory and wound healing plants from traditional/tribal/folk medical information’ funded by KSCSTE, Trivandrum (2008-2013).

CONSULTANCY

- ‘Can Enrichment of Palmyra Syrup cause Immunomodulation?’ STEC, Trivandrum (2014).
- Pharmacognostic studies on coded drug samples from OUSHADHI (2013).
- Immunomodulatory studies on ‘Jeevakom’ (*Seidenfia rheedii*). In-house Project of JNTBGRI, Trivandrum (2011).

- Immunomodulatory studies on *Saraca asoca* Roxb. de Wilde bark extract. In-house Project of JNTBGRI, Trivandrum (2008).

PATENTS

- TENDER COCONUT PUNCHING CUM CUTTING MACHINE (2019). B. Ramesh, N. M. Krishnakumar, K. X. Joseph, Rahul Ramesh (Published in the Patent Office Journal).
- POLYMERISED COCONUT LEAF BASED ROOFING AND FLOORING TILES (2019). B. Ramesh, K. X. Joseph, N. M. Krishnakumar, Rahul Ramesh (Published in the Patent Office Journal).
- MULTI-UTILITARIAN COPRA DETACHER (2019). B. Ramesh, Rahul Ramesh, K. X. Joseph, N. M. Krishnakumar (Published in the Patent Office Journal).
- REPLICABLE MODEL OF A BIO-KITCHEN FOR THE PRODUCTION OF SELF-CERTIFIED FOOD ITEMS (2019). B. Ramesh, N. M. Krishnakumar, Rahul Ramesh (Provisional Patent Filed).
- SEMI-AUTOMATIC CUTTING MACHINE FOR MATURED, DEHUSKED COCONUTS (2019). B. Ramesh, Rahul Ramesh, N. M. Krishnakumar (Provisional Patent Filed).
- A NOVEL POLYHERBAL FORMULATION WITH MULTIPLE THERAPEUTIC EFFECTS AS ANTIDIABETIC, ANTIFATIGUE, HEPATOPROTECTIVE AND ANTIOXIDANT (2012). S. Rajasekharan, P. G. Latha, T. M. Shahul Hameed Vaidyar, S. R. Suja, Krishnakumar N. M (Published in the Patent Office Journal).

JOURNAL PUBLICATION

- Ramesh B, Krishnakumar NM, Rahul Ramesh (2019). Mechanised Rubber Tapping Devices. International Journal of Innovative Technology and Exploring Engineering, 8 (12): 2248-2252. (Scopus indexed).
- Ramesh B, Krishnakumar NM, Joseph KX (2019). Mushroom cultivation: Alternative substrates from local resources. Kerala Karshakan English Journal, Farm Information Bureau, Govt. of Kerala. 7 (2): 37-39.
- S. R. Suja, N. M. Krishnakumar and R. Prakashkumar (2019). Integrative approaches in diabetes management. European Journal of Biomedical and Pharmaceutical Sciences, 6 (2): 171-177.

- N M Krishnakumar, P G Latha, S Rajasekharan, S R Suja, Mathew Dan and M Navas (2018). Hepatoprotective activity of coded plant (222) leaf extract in D-Galactosamine induced hepatotoxicity: Biochemical and histopathological analysis in experimental animals- Part VI. *Journal of Traditional and Folk Practices*, 06 (2): 39-48.
- Neenthamadathil M Krishnakumar, Balakrishnan Thampi Ramesh, Karukappillil X Joseph (2018). A review on immunomodulatory phytochemicals and their mechanism of action against immune dysfunctions. *Journal of Medicinal Chemistry and Drug Design*. 1 (3): 1-11.
- N M Krishnakumar, P G Latha, S Rajasekharan, S R Suja, Mathew Dan and M Navas (2018). Coded plant (222) leaf ethanolic extract ameliorates ethanol-induced liver damage and oxidative stress in Wistar albino rats-Part V. *Journal of Traditional and Folk Practices*. 06 (1): 39-48.
- Shiney George, Krishnakumar NM, Livina Vincent, Rini KT, Athira S, Agnesjini PJ, Ramesh B (2018). Physicochemical characterization of *Garcinia gummi-gutta* (L.) Robs. seed oil. *International Journal of Applied Biology and Pharmaceutical Technology*, 9 (4): 5-12.
- N M Krishnakumar, P G Latha, S R Suja (2017) Effect of *Morinda umbellata* Linn. (Rubiaceae) leaf extracts on antigen induced mast cell degranulation and active paw anaphylaxis in Wistar rats. *Journal of Pharmacy Research*. 11 (3): 228-234.
- N M Krishnakumar, P G Latha, S Rajasekharan, S R Suja, Mathew Dan and M Navas (2017) Assessment of hepatoprotective activity of coded plant (222) leaf ethanolic extract against carbon tetrachloride-induced hepatotoxicity in Wistar rats-Part IV. *Journal of Traditional and Folk Practices*. 05 (2): 111-120.
- Krishnakumar N M, Latha P G, Suja S R, Rajasekharan S (2017) Immunomodulatory and free radical scavenging effects of *Saraca asoca* (Roxb.) W. J. de Wilde stem bark. *Abrahamia-An International Journal of Plant Sciences*. 3: 79-86.
- N M Krishnakumar, P G Latha, S Rajasekharan, S R Suja, Mathew Dan and M Navas (2017) Evaluation of the protective effect of coded plant leaf ethanolic extract (222) against paracetamol-induced hepatotoxicity and oxidative stress in Wistar rats-Part III. *Journal of Traditional and Folk Practices*. 05 (1): 8-15.

- Krishnakumar N M, Latha P G and Suja S R (2016) Immunomodulatory effects of Indian medicinal plants-A review on phytochemical and pharmacological aspects. *Abrahamia-An International Journal of Plant Sciences*. 2: 12-18.
- N M Krishnakumar, P G Latha, S R Suja, S Rajasekharan (2016) A comparative study on *in vitro* free radical scavenging potential of different solvent extracts of *Morinda umbellata* Linn. and its quantitative phytochemical constituents. *International Journal of Pharmaceutical Research*. 8 (1): 39-45.
- N M Krishnakumar, P G Latha, S Rajasekharan, S R Suja, Mathew Dan, B Sabulal and M Navas (2016) Protective effect of coded plant (222) leaf extract against streptozotocin-induced diabetes in Wistar albino rats – Part II. *Journal of Traditional and Folk Practices*. 04 (2): 37-47.
- N M Krishnakumar, P G Latha, S Rajasekharan, S R Suja, Mathew Dan, B Sabulal and M Navas (2016) Preclinical studies of a medicinal plant (coded) based on Traditional Knowledge with special reference to Access and Benefit Sharing – Part 1. *Journal of Traditional and Folk Practices*. 02, 03, 04 (1): 151-159.
- N M Krishnakumar, P G Latha, S R Suja, S Rajasekharan (2015) A Review on the ethnomedicinal, therapeutic and nutraceutical importance of Noni (*Morinda citrifolia* L.). *International Journal of Medicinal plants and Natural Products*. 1(3): 1-14.
- G Sreejith, M Jayasree, P G Latha, S R Suja, S Shyamal, V J Shine, G I Anuja, S Sini, P Shikha, N M Krishnakumar, V Vilash, S Shoumya and S Rajasekharan (2014) Hepatoprotective activity of *Oxalis corniculata* L. ethanolic extract against paracetamol induced hepatotoxicity in Wistar rats and its *in vitro* antioxidant effects. *Indian Journal of Experimental Biology*. 52: 147-152.
- S Sini, P G Latha, T V Anilkumar, S R Suja, Gopan Raj, K B Rameshkumar, S Shyamal, V J Shine, G I Anuja, P Shikha, N M Krishnakumar, G Sreejith and S Rajasekharan (2014) Safety assessment of tuberous rhizome of *Kaempferia rotunda* L. by acute and 28-days repeated dose toxicity studies. *Global Journal of Pharmacology*. 8(2): 128-139.
- Vimalkumar C S, Hosagaudar V B, Suja S R, Vilash V, Krishnakumar N M and Latha P G (2014) Comparative preliminary phytochemical analysis of ethanolic extracts of leaves of *Olea dioica* Roxb., infected with the rust fungus *Zaghouania oleae* (E. J. Butler)

Cummins and non-infected plants. *Journal of Pharmacognosy and Phytochemistry*. 3(4): 69-72.

- Shoumya S, Latha P G, Suja S R, Rajasekharan S, Shyamal S, Shine V J, Anuja G I, Sini S, Vilash V, Shikha P, Krishnakumar N M and Sreejith G (2013) Hepatoprotective potential of ethanolic extract of *Saraca asoca* (Roxb.) de Wilde stem bark against carbon tetrachloride induced hepatotoxicity in Wistar rats. *Journal of Traditional and Folk Practices*. 1(1): 84-91.
- Krishnakumar N M, Latha P G, Suja S R, Rajasekharan S (2012) Mast cell stabilizing and antioxidant properties of *Morinda umbellata* L. *AYU Journal*, Suppl. 1, PA. 01. 62.
- J Sonia, P G Latha, P Gowsalya, G I Anuja, S R Suja, V J Shine, S Shyamal, P Shikha, N M Krishnakumar, G Sreejith, S Sini and S Rajasekharan (2011) Anti-diarrhoeal effects of ethanolic leaf extract of *Erythrina indica* L. in experimental animals. *Medicinal Plants*. 3 (1): 81-83.
- V S Aneesha, P G Latha, S R Suja, V J Shine, S Sini, S Shyamal, G I Anuja, P Shikha, N M Krishnakumar, M Balasundaram and S Rajasekharan (2011) Effect of *Caesalpinia pulcherrima* (L.) Sw. seeds on serum glucose and other metabolic parameters of normal and alloxan – induced diabetic rats. *Hamdard Medicus*. 54(3): 45-55.
- P Shikha, P G Latha, S R Suja, G I Anuja, S Shyamal, V J Shine, S Sini, N M Krishnakumar and S Rajasekharan (2010) Anti-inflammatory and Analgesic activity of *Barringtonia racemosa* Roxb. fruits. *Indian Journal of Natural Products and Resources*. 1(3): 356-361.
- P Shikha, P G Latha, S R Suja, G I Anuja, S Shyamal, V J Shine, S Sini, N M Krishnakumar and S Rajasekharan (2010) Anti-inflammatory and anti-nociceptive activity of *Justicia gendarussa* Burm. F. leaves. *Indian Journal of Natural Products and Resources*. 1(4): 456 – 461.
- V E Rajeev, P G Latha, G I Anuja, S R Suja, S Sini, V J Shine, S Shyamal, N M Krishnakumar, P Shikha, J Liji, and S Rajasekharan (2010) Anti-inflammatory and analgesic properties of *Erythrina indica* Lamb. *Medicinal Plants*. 2 (3): 229- 231.
- N M Krishnakumar, P G Latha, S R Suja, V J Shine, S Shyamal, G I Anuja, S Sini, S Pradeep, P Shikha, P K Somasekharan Unni, S Rajasekharan (2008) Hepatoprotective effect of *Hibiscus hispidissimus* Griffith., ethanolic extract in paracetamol and CCl₄

induced hepatotoxicity in Wistar rats. *Indian Journal of Experimental Biology*. 46: 653 - 659.

Books/Monograph published:

- Publication of Monograph EM & EP – 1. “Ethnopharmacological Evaluation of Antidiabetic, Hepatoprotective, Antioxidant and Antifatigue Potential of Selected Herbal Coded Drugs based on Traditional Knowledge (Pre-clinical Studies)”. PG Latha, S Rajasekharan, SR Suja, Mathew Dan, B Sabulal, M Navas, NM Krishnakumar and Shahul Hameed Vaidyar. ISBN-978-81-924674-4-3. Division of Ethnomedicine and Ethnopharmacology, JNTBGRI. 2015.

Technical Report:

- ‘Documentation of Rajagiri Campus Plant Diversity’ Minor Research Project Report (2019-2020). B. Ramesh, N. M. Krishnakumar, Faculty Research Programme of RCSS, Kalamassery.
- ‘Survey on Proper Utilization of *Garcinia gummi-gutta* seed Oil as Therapeutic, Edible in Konkan Region of Goa and Kerala’. Project Completion Report (27.02.2017-31.12.2018). Shiney George, Livina Vincent, K. T. Rini, N. M. Krishnakumar – submitted to the Department of Science and Technology (DST), Govt. of India, New Delhi.
- ‘Ethnopharmacological Evaluation of Antidiabetic, Hepatoprotective, Antioxidant and Antifatigue Potential of Selected Herbal Coded Drugs based on Traditional Knowledge’ – Technical Report (April 2009 to March 2014). T. M. Shahul Hameed Vaidyar, P. G. Latha, S. Rajasekharan, S. R. Suja, Mathew Dan, B. Sabulal, M. Navas, N. M. Krishnakumar submitted to Kerala State Council for Science, Technology and Environment (KSCSTE), Govt. of Kerala.

Chapters contributed in Books:

- N. M. Krishnakumar, S. R. Suja and P. G. Latha. Therapeutic Relevance of the Genus *Morinda* L. with reference to its Phytochemicals: A Review. In: *Biochemistry and*

Therapeutic Uses of Medicinal Plants (Eds. A. A. Mahdi, Y. K. Sharma, M. Abid, M. M. A. Khan) Discovery Publishing House Pvt. Ltd., New Delhi. pp. 141-165. (2017).

- N. M. Krishnakumar, P. G. Latha, S. R. Suja and S. Rajasekharan. Medicinal mushrooms as a source of immunomodulatory compounds. In: Developments in Medicinal Mushroom Biology and Therapeutic Properties (Eds. K. K. Janardhanan and T. A. Ajith) ASTRAL Publications, New Delhi. pp. 203-207. (2015).
- G. I. Anuja, P. G. Latha, S. R. Suja, V. J. Shine, S. Shyamal, S. Sini, P. Shikha, N. M. Krishnakumar, G. Sreejith and S. Rajasekharan. Anti-inflammatory, analgesic and anti-lipid peroxidative properties of the fertile fronds of *Drynaria quercifolia* (L.) J. Smith. In: Biodiversity – Utilization, Threats and Cultural Linkages (Eds. A. Biju Kumar, M. P. Nayar, R. V. Varma and C. K. Peethambaran). Narendra Publishing House (NPH), New Delhi (2012).
- Latha PG, Shikha P, Suja SR, Shyamal S, Shine VJ, Anuja GI, Sini S, Krishnakumar NM, Sreejith G and Rajasekharan S. Traditional Knowledge based Ethnopharmacological studies of medicinal plants. In: Traditional and folk practices – Contemporary Relevance and Future Prospects (Editors: S Rajasekharan and PG Latha) pp. 33-42, published by KSCSTE and JNTBGRI, Thiruvananthapuram. (2011).

Articles in Proceedings/Book of Abstracts:

- Shiney George, Krishnakumar NM and Ramesh B (2019). Anti-obesity effects of *Garcinia gummi-gutta* (L.) Robs. seed oil in 3T3-L1 adipocytes. Abstract No. 09-50, pp. 196. 31st Kerala Science Congress-Abstracts, 2-3 February 2019, Fatima Mata National College, Kollam, Kerala.
- Shiney George, Krishnakumar N M (2018). Evaluation of anti-microbial and antioxidant effects of *Garcinia gummi-gutta* seed oil. Proceedings of the 6th BIORADIANCE - The National Research Seminar in Molecular Biology Techniques in Microbial Research. Bioradiance 2018, organized by Pushpagiri Institute of Medical Sciences and Research Centre, Thiruvalla, Kerala on 23rd June 2018.
- Krishnakumar N M, Latha P G, Suja S R (2016) Evaluation of *in vivo* and *in vitro* phagocytic activity of *Morinda umbellata* L. leaf extract. Extended Abstracts Page No.

1606-1613 of 28th Kerala Science Congress, 28th-30th January 2016, University of Calicut, Malappuram.

- Krishnakumar N M, Latha P G, Suja S R, Rajasekharan S (2014). Anti-allergic and anti-oxidant potential of *Morinda umbellata* L. – An important traditional medicine. Abstract No: 10-27 on p-3271-3276 of the Proceedings of 26th Kerala Science Congress. 28-31 January 2014, Wayanad, Kerala.
- Pamitha NS, Suja SR, Pradeep NS, Latha PG, Vilash V, Krishnakumar N M (2014). A glance in to the pharmacological and nutritive value of *Macrocybe gigantea*- a wild edible mushroom. Book of Abstracts page No. 28. UGC sponsored National Seminar cum Workshop on Techniques in Biosciences, KKTU College, Kodungallur, Kerala from 18th -19th February, 2014.
- N M Krishnakumar, P G Latha, S R Suja, S Rajasekharan (2013). Medicinal mushrooms as a source of immunomodulatory compounds. Abstract No: OP-02 on p-25-26 of the Proceedings of National Symposium on Medicinal Mushrooms. 24-25 January 2013, Thrissur, Kerala.
- Krishnakumar N M, Latha P G, Suja S R, Rajasekharan S (2013). Mast cell stabilization activity of ethanolic extract of the leaves of *Morinda umbellata* L. Abstract No: 09-30 of the Proceedings of 25th Kerala Science Congress (Volume 2). 29th January-1st February 2013, Thiruvananthapuram, Kerala.
- Krishnakumar N M, Latha P G, Suja S R, Rajasekharan S (2013). ‘Noni’- An amazing traditional medicinal plant of south-east Asia. Page No: 218-220 of the Proceedings of 8th National Seminar on Medicinal Plants. 1-2 March 2013, Thiruvananthapuram, Kerala.
- Vilash V, Latha PG, Suja SR, Krishnakumar N M, Shoumya S, Rajasekharan S (2013). *Pellionia heyneana* Wedd. - An ethnomedicinal plant with immunomodulatory and antioxidant potential. 8th National Seminar on Medicinal Plants conducted by the Pharmacognosy Unit, Trivandrum Ayurveda College at Rajiv Gandhi Centre for Biotechnology on March 1st and 2nd, 2013.
- Krishnakumar N M, Latha P G, Suja S R, Rajasekharan S (2012). Immunomodulatory and antioxidant properties of *Morinda umbellata* L. – An ethnomedicine.. Abstract No: 145 on p-145 of the Book of Abstracts. International Seminar on Ayurveda for Non-

Communicable Diseases, Global Ayurveda Festival. 9-14 February 2012, Thiruvananthapuram, Kerala.

- Krishnakumar N M, Latha P G, Suja S R, Rajasekharan S (2012). An urgent need for conservation and sustainable utilization of *Morinda umbellata* L. - An important ethnomedicine. Abstract No: CBO 3 on p-42 of the Book of Abstracts. National Seminar on Recent Trends and Future Prospects of Biodiversity and Conservation, Biofest. 15-16 March 2012, Punalur, Kollam, Kerala.
- Krishnakumar N M, Latha P G, Suja S R, Rajasekharan S (2012). The genus *Morinda*- medicinal and socio-economic relevance. Abstract No: 6 on p-8 of the Book of Abstracts. National seminar on Action Anthropology, Traditional Knowledge, Tribal Medicine and Development. 8-9 September 2012, Palakkad, Kerala.
- Krishnakumar N M, Latha P G, Suja S R, Rajasekharan S (2012). Mast cell stabilizing and antioxidant properties of *Morinda umbellata* L. Abstract No: 11380 on p-336-337 of the Book of Abstracts. 5th World Ayurveda Congress and Arogya Expo, 7-10 December 2012, Bhopal, Madhya Pradesh.
- Krishnakumar N M, Latha P G, Suja S R, Rajasekharan S (2012). Ethnomedicinal relevance of the genus *Morinda*. Abstract No: 09-12 on p-277 of the Book of Abstracts. National Seminar, 2nd Indian Biodiversity Congress. 9-11 December 2012, Bangalore, Karnataka.
- N M Krishnakumar, S Sini (2010). Immunomodulatory properties of *Saraca asoca* (Roxb.) de Wilde. Abstract No: 09-20 on p-716-717 of the Proceedings of 22nd Kerala Science Congress. 28-31 January, Thrissur, Kerala.
- N M Krishnakumar, P G Latha, S R Suja, S Shyamal, V J Shine, G I Anuja, S Sini, P Shikha, G Sreejith, V Vilash, C S Vimalkumar, S Rajasekharan (2010). Immunomodulatory and antioxidant potential of *Saraca asoca* (Roxb.) de Wilde bark in Wistar rats. Abstract No: PA-1186 on p-66 of the Book of Abstracts. 4th World Ayurveda Congress and Arogya Expo. 9-13 December, Bengaluru, Karnataka.
- S Shyamal, PG Latha, VJ Shine, SR Suja, GI Anuja, S Sini, P Shikha, N M Krishnakumar, Sreejith, S Rajasekharan (2010). Hepatoprotective effects of *Pittosporum viridulum* Nayar, Giri & Chandrasekharan on D-galactosamine induced liver injury in

rats. State Level seminar on Modern Methods in Herbal Drug Development and organised by Bharathamatha College, Thrikkakara from 28 to 29 July 2010.

- V J Shine, P G Latha, S Shyamal, S R Suja, G I Anuja, S Sini, P Shikha, N M Krishnakumar, G Sreejith, S Rajasekharan (2010). Hepatoprotective effects of *Cyclea peltata* (Poiret) Hook. f. & Thoms. State Level seminar on Modern Methods in Herbal Drug Development and organised by Baratha Matha College, Thrikkakara from 28 to 29 July 2010.
- GI Anuja, P G Latha , S R Suja , V J Shine, S Shyamal, S Sini , P Shikha, N M Krishnakumar, G Sreejith, S. Rajasekharan (2010). Anti-inflammatory, analgesic and antilipid peroxidative properties of the fertile fronds of *Drynaria quercifolia* (L.) J. Smith. First Indian Biodiversity Congress 2010 (IBC- 2010) organized by Centre for Innovation in Science and Social Action (CISSA) at Thiruvananthapuram from 28- 30 December, 2010.
- S Sini, P G Latha, T V Anilkumar, S R Suja, S Shyamal, V J Shine, G I Anuja, P Shikha, N M Krishnakumar, G Sreejith, V P Vineetha, S Rajasekharan (2010). Evaluation of wound healing potential of *Kaempferia rotunda* L. by *in vivo* excision and incision models” organized by Centre for Innovation in Science and Social Action (CISSA) at Thiruvananthapuram from 28- 30 December 2010.
- S Sini, N M Krishnakumar, S Rajasekharan (2010). “Anti-inflammatory, anti-nociceptive and wound healing studies of *Kaempferia rotunda* L. in the Proceedings of 22nd Kerala Science Congress, Peechi, Thrissur, pp. 827-828.

PAPER PRESENTATIONS

- Presented a poster entitled “Evaluation of anti-microbial and antioxidant effects of *Garcinia gummi-gutta* seed oil” in the National Conference in Molecular Biology Techniques in Microbial Research: Bioradiance 2018, organized by Pushpagiri Research Centre at Pushpagiri Medical College, Thiruvalla, Kerala on 23rd June 2018.
- Presented a poster entitled “Evaluation of *in vivo* and *in vitro* phagocytic activity of *Morinda umbellata* L. leaf extract” in 28th Kerala Science Congress, 28th – 30th January 2016, University of Calicut, Malappuram, Kerala.

- Presented a paper entitled “Anti-allergic and anti-oxidant potential of *Morinda umbellata* L. – An important traditional medicine” in 26th Kerala Science Congress. 28-31 January 2014, Wayanad, Kerala.
- Presented a poster entitled “Mast cell stabilization activity of ethanolic extract of the leaves of *Morinda umbellata* L.” in 25th Kerala Science Congress 29th January-1st February 2013, Thiruvananthapuram, Kerala.
- Presented a paper entitled “Medicinal mushrooms as a source of immunomodulatory compounds” in the National Symposium on Medicinal Mushrooms. 24-25 January 2013, Thrissur, Kerala.
- Presented a poster entitled “Noni- An amazing traditional medicinal plant of south-east Asia” in the 8th National Seminar on Medicinal Plants. 1-2 March 2013, Thiruvananthapuram, Kerala.
- Presented a poster entitled “Mast cell stabilizing and antioxidant properties of *Morinda umbellata* L.” in the 5th World Ayurveda Congress and Arogya Expo, 7-10 December 2012, Bhopal, Madhya Pradesh.
- Presented a paper entitled “Immunomodulatory and antioxidant properties of *Morinda umbellata* L. – An Ethnomedicine” in the International Seminar on Ayurveda for Non-Communicable Diseases, Global Ayurveda Festival. 9-14 February 2012, Thiruvananthapuram, Kerala.
- Presented a paper entitled “An urgent need for conservation and sustainable utilization of *Morinda umbellata* L. - An important ethnomedicine” in the National Seminar on Recent Trends and Future Prospects of Biodiversity and Conservation, Biofest. 15-16 March 2012, Punalur, Kollam, Kerala.
- Presented a paper entitled “The genus *Morinda*- medicinal and socio-economic relevance” in the National seminar on Action Anthropology, Traditional Knowledge, Tribal Medicine and Development. 8-9 September 2012, Palakkad, Kerala.
- Presented a paper entitled “Ethnomedicinal relevance of the genus *Morinda*” in the National Seminar, 2nd Indian Biodiversity Congress. 9-11 December 2012, Bangalore, Karnataka.

- Presented a paper entitled “Immunomodulatory and antioxidant potential of *Saraca asoca* (Roxb.) de Wilde bark in Wistar rats” in the 4th World Ayurveda Congress and Arogya Expo. 9-13 December 2010, Bengaluru, Karnataka.
- Participated as Innovator and presented five innovations in the ‘Innovators’ Meet’ held at CPCRI, Kasaragod on 6th October, 2018.

WORKSHOPS/TRAINING ATTENDED

- Participated in the Faculty Development Programme on “Art of Edification: Contemporary & Innovative Practices for Effective Teaching” organized by Internal Quality Assurance Cell (IQAC), Rajagiri College of Social Sciences (Autonomous), Kalamassery, Ernakulam, from 1st April – 4th April 2019.
- Participated in the three days Workshop by IIT Kharagpur and Makeintern on ‘Understanding Complexities of Life from Molecules to Systems’ – Kshitij 2k 17-18 held at Presentation College of Applied sciences, Puthenvelikkara, Ernakulam from 12.12.2017 to 14.12.2017.
- Workshop on “Capacity Building in Scientific/Technical Writing Skills” jointly organized by Tropical Botanic Garden and Research Institute (TBGRI) and Centre for Information Literacy Studies, University of Kerala, held at TBGRI, from 21.03.2011 to 25.03.2011.
- Department of Biotechnology, Govt. of India sponsored workshop on ‘Statistics in Research, Intellectual Property Rights & Patent Law’ organized by TBGRI at Saraswathy Thangavelu Extension Centre-TBGRI, Puthenthope, Thiruvananthapuram, from 18.07.2011 to 20.07.2011.
- Training in plant tissue culture, especially on *in vitro* multiplication of black pepper (*Piper nigrum* L.) at the Centre for Plant Biotechnology and Molecular Biology (CPBMB), Kerala Agricultural University (KAU), Thrissur, under Dr. P. A. Nazeem, Head & Professor (CPBMB), KAU, Vellanikkara, Thrissur from 08.04.2008 to 12.12.2008.
- Participated in 22nd Kerala Science Congress held at Kerala Forest Research Institute, Peechi, Thrissur from 28.01.2010 to 31.01.2010.

- Participated in 21st Kerala Science Congress held at S. N. College, Kollam from 28.01.2009 to 31.01.2009.
- Project entitled ‘Hepatoprotective properties of *Hibiscus hispidissimus* Griff.’ carried out at Ethnomedicine and Ethnopharmacology Division, Tropical Botanic Garden and Research Institute, Palode, Thiruvananthapuram from 02.01.2006 to 24.03.2006.

PROFESSIONAL MEMBERSHIPS

- Member, Indian Ecological Society (2020)

RECOGNITION

- Facilitator, Young Innovators Programme YIP (2019-2022) by Kerala Development and Innovation Strategic Council, Govt. of Kerala.
- Prof. A. Abraham Memorial Merit Award for the Best Presentation of Research Outcome, JNTBGRI, 2017.
- Senior Research Fellowship from University of Kerala, Trivandrum 2015.
- Junior Research Fellowship from University of Kerala, Trivandrum 2013.
- Research Fellowship from Kerala State Council for Science, Technology and Environment, Trivandrum 2008.
- Certificate of Merit from Catholic Students’ Association, Christ College, Irinjalakuda, for the meritorious performance in Moral Examination, 2000.
- Certificate of Merit from G. S. B. Maha Sabha, Central Zone, Kerala, for the meritorious performance in SSLC Examination, 1998.
- Certificate of Merit from Kerala Hindi Prachaar Sabha, Thiruvananthapuram, for the meritorious performance in Sugam Hindi Pareeksha, 1998.
- Title of ‘Friend of the Blind’ from Kerala Federation of the Blind, Thiruvananthapuram for the dedicated humanitarian service to the cause of the blind, 1995.
- Reviewer, Asian Journal of Biochemistry, Genetics and Molecular Biology
- Reviewer, European Journal of Medicinal Plants

OTHER DETAILS

- Training programmes on Mushroom Cultivation.

- Training programmes on Coconut value-added products, Processes etc. exclusively for individuals, Self Help Groups and unemployed.
- Involvement in the Development of New Herbal Drugs/Nutraceuticals – 1, A novel poly herbal formulation (coded drug – 222) with multiple therapeutic effects as anti-diabetic, anti-fatigue, hepatoprotective and anti-oxidant (JNTBGRI, 2015).