



PERSONAL

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Dr. SIDDARAJU M N

TEACHING AND RESEARCH

April 2023



POSITION AND EMPLOYMENT

- Nov 2013 – Present

ASSISTANT PROFESSOR
University College Mangalore
Teaching and Research in Biotechnology, Microbiology, Ecology and Plant Physiology
- Nov 2012 – Oct 2013

SENIOR POST-DOCTORAL FELLOW
University of Maryland School of Medicine, Baltimore, USA
Research on neonatal vaccines and immunology to understand how protective immunity can be induced in animal models following infection and vaccination, and the mechanisms involved.
Mentor: Prof. Marcela Pasetti
- Mar 2010 – Oct 2012

POST-DOCTORAL FELLOW
Microbiology and Immunology Dept, University of Maryland, Baltimore. USA
Research on initiation, progression, and regression of autoimmune arthritis; the dynamics of cytokine responses and their cross-regulation during the course of arthritis and bone remodeling.
Mentor: Prof. Kamal Moudgil
- Jun 2008 – Feb 2010

COORDINATOR & HOD IN BIOLOGY
Manipal K-12 Education (P) Ltd. Mysore, India
Teaching and mentoring UK and USA students through online platform. Coordinating parents, teachers and students at local center.
- May 2007 – Mar 2008

INNOVATION OFFICER- (CSIR-NIF Fellow)
National Innovation foundation (NIF), Ahmedabad, India.
Verification and validating the innovations scouted throughout India. Value addition for the selected innovations. Formulated and developed 9 grain biscuits, soya biscuits, Biscuits for fasting people etc., at Value Addition Research Development-VARD
Mentor: Prof. Anil Gupta



EDUCATION/TRAINING

- 2010 Ph.D. in Biotechnology**
Central Food Technological Research Institute (CFTRI), Mysore,
University of Mysore
*Antiulcer bioactive compounds from Zingiber officinalis rhizome were isolated and characterized to reveal a novel polysaccharide. The antiulcer potency of Ginger polysaccharide (GRP) was evaluated in swim/alcohol stress induced gastric ulcer model in vivo. Reduction in ulcer index; enhanced mucosal recovery, normalization of H⁺, K⁺-ATPase substantiated the antiulcer potentials of GRP. Further GRP was also effective in inhibiting H. pylori. This Ph.D work yielded an **US patent** and an **Indian Patent**.*
-Mentor: Dr. Shylaja M. Dharmesh
- 2001 MSc. Botany**
University of Mysore
- 1999 B. Ed.**
College of Teachers Education, University of Mysore
- 1998 B. Sc. in life science**
Yuvaraja's College Mysore, University of Mysore



HONORS AND AWARDS

- 2020 Best Paper Presentation Award**
For the paper "Effect of Plastic on Seed Germination and Plant Growth" at National Conference on "Pollution and Bioremediation- Current Scenario and future prospects" organized by Dept of Biosciences, Mangalore University on 7th March 2020.
- 2015 Best Paper Presentation Award**
For the paper "H. pylori- an enemy within our body" at State level seminar on "Recent trends and Opportunities in the study of Basic Sciences" organized by Sri Venkataramana Swamy College, Bantwal, Karnataka, India. 14th -15th July 2015.
- 2005 Best Paper Presentation Award**
For the paper "Antiulcer activity of ginger phenolic fractions in vitro" at National conference and 7th Food Convention (ICFOST) held at National Institute of Mental Health and Neurosciences (NIMHANS), Bangalore. INDIA. 5th Dec 2005.

ACADEMICS AND ADMINISTRATIVE EXPERIENCE

- | | |
|---------|---|
| 2016 | Research Guide in Biosciences (22.01.2016)
Research Guide in Applied Botany (24.02.2016) |
| 2019-20 | BOAE Member, BOE Chairman and BOS Chairman
<i>Biotechnology, Mangalore University</i> |
| 2019-20 | BOAE Member and BOS member
<i>Indian Constitution, Human rights and Environment, Mangalore University</i> |
| 2016 | BOE Member
Botany, St. Aloysius UG College Mangalore |
| 2020 | University Nominee (06.06.2020- till date)
<i>for Govt. First Grade College, Uppinangadi</i> |
| 2020 | University Nominee (28.05.2020 - till date)
<i>Sarsa College of Arts and Science</i> |
| 2020 | Nodal Officer (10.07.2020 – till date)
<i>Rovers and Rangers, Mangalore University</i> |
| 2020 | Coordinator (04.11.2019- till Nov 2022)
<i>Career Guidance cell, University College Mangalore</i> |
| 2023 | BOE Chairman (Feb 2023 – till date)
<i>Food-technology, Mangalore University</i> |



PATENTS (02)

- | | |
|------|---|
| 2012 | American Patent:
<i>Dharmesh SM and Siddaraju M.N. (2012). A bioactive fraction from Zingiber officinale and a process for the preparation thereof. US Patent No. 8158608.</i> |
| 2012 | Indian Patent:
<i>Srikanta BM, Siddaraju M.N. and Dharmesh SM. (2007). Process for the preparation of antiulcer powder from swallow root (Decalepis hamiltonii). Indian patent No. DEL-7052007.</i> |
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PUBLICATIONS (17+2)

In Refereed International journals (17):

1. Shivaprasad H Venkatesha, Brian Astry, **Siddaraju M Nanjundaiah**, Hong R Kim, Rajesh Rajaiah, Yinghua Yang, Li Tong, Hua Yu, Brian M Berman, Kamal D Moudgil. (2016). "Control of autoimmune arthritis by herbal extracts and their bioactive components" *Asian J Pharmaceut. Sciences*. 11 (2), 301-307. ISSN: 1818-0876. (IF-9.27) – SCImago ranking- 1.021 (Q1)
2. **Siddaraju M Nanjundaiah**, Astry B, Moudgil KD. (2013) "Mediators of inflammation-induced bone damage in arthritis and their control by herbal products" *Evid Based Complement Alternat Med*. 2013:518094. ISSN: 1741-4288. (IF-2.6)- SCImago ranking- 0.461 (Q2)
3. **Siddaraju M Nanjundaiah**, Stains PJ, Moudgil KD (2013). "Kinetics and interplay of mediators of inflammation-induced bone damage in the course of adjuvant arthritis" *Int J Immunopathol Pharmacol*. 26(1):37-48. ISSN: 0394-6320 (IF-3.29)- SCImago ranking- 0.528 (Q3)
4. **Siddaraju M Nanjundaiah**, Lee YWD, Berman BM, Moudgil KD (2013). "Chinese herbal formula Huo-Luo-Xiao-Ling Dan protects against bone damage in adjuvant arthritis by modulating the mediators of bone remodeling" *Evid Based Complement Alternat Med*. 2013:429606. ISSN: 1741-4288 (IF-2.8)- SCImago ranking- 0.528 (Q3)
5. **Siddaraju M Nanjundaiah**, Lee YWD, Ma Z, Fong HHS, Lao L, Berman BM, Moudgil KD (2012). Modified Huo-Luo-Xiao-Ling Dan (HLXL) Suppresses Adjuvant Arthritis by Inhibiting Chemokines and Matrix-Degrading Enzymes. *Evid Based Complement Alternat Med*. 2012:589256. ISSN: 1741-4288. (IF-2.6)- SCImago ranking- 0.461 (Q2)
6. L Tong, **Siddaraju M Nanjundaiah**, SH Venkatesha, B Astry, H Yu, KD Moudgil (2014). Pristimerin, a naturally occurring triterpenoid, protects against autoimmune arthritis by modulating the cellular and soluble immune mediators of inflammation and tissue damage. *Clinical Immunology* 155 (2), 220-230. ISSN: 1521-6616 (IF-8.3)- SCImago ranking- 1.236 (Q1)
7. Yu H, Lee DY, **Siddaraju M Nanjundaiah**, Venkatesha SH, Berman BM, Moudgil KD. (2013). Microarray analysis reveals the molecular basis of anti-arthritis activity of Huo-Luo-Xiao-Ling Dan. *Evid Based Complement Alternat Med*. 2012:589256. ISSN: 1741-4288. (IF-2.6)- SCImago ranking- 0.461 (Q2)
8. H. Yu, S.H. Venkatesha, **Siddaraju M Nanjundaiah**, L. Tong and K.D. Moudgil. (2012). Celastrus treatment modulates antigen-induced gene expression in lymphoid cells of arthritic rats. *Int J Immunopathol Pharmacol*. 25 (2), 455. ISSN: 0394-6320 (IF-3.06)- SCImago ranking- 0.528 (Q2)
9. SH Venkatesha, BC Astry, **Siddaraju M Nanjundaiah**, H Yu, KD Moudgil. (2012). Suppression of autoimmune arthritis by Celastrus-derived Celastrol through modulation of pro-inflammatory chemokines. *Bioorganic & Medicinal Chemistry*. Sep 1; 20(17):5229-34. ISSN: 0968-0896 ((IF-3.40)- SCImago ranking- 0.598 (Q2)
10. Komeh-Nkrumah SA, **Siddaraju M Nanjundaiah**, Rajaiah R, Yu H, Moudgil KD. (2012) Topical dermal application of essential oils attenuates the severity of adjuvant arthritis in Lewis rats. *Phytother Res* Jan; 26(1): 54-59. ISSN: 1099-1573 (IF-7.07)- SCImago ranking- 1.046 (Q1)
11. **Siddaraju M Nanjundaiah**, SH Venkatesha, H Yu, L Tong, JP Stains, KD Moudgil. (2012) Celastrus and Its Bioactive Celastrol Protect against Bone Damage in Autoimmune Arthritis by Modulating Osteoimmune Cross-talk. *J Biol Chem*. 287 (26), 22,216-22,226. ISSN: 1083-351X (IF-4.7)- (IF-4.81)- SCImago ranking- 1.871 (Q1)
12. **Siddaraju M Nanjundaiah**, Annaiah HN, Dharmesh SM. (2011). Gastroprotective Effect of Ginger Rhizome (*Zingiber officinale*) Extract: Role of Gallic Acid and Cinnamic Acid in H+, K+-ATPase/H. pylori Inhibition and Anti-oxidative Mechanism. *Evid Based Complement Alternat Med*. 2011:249487. ISSN: 1741-4288. (IF-2.6)- SCImago ranking- 0.461 (Q2)

13. Srikanta BM, **Siddaraju MN**, Dharmesh SM. (2007). A novel phenol-bound pectic polysaccharide from *Decalepis hamiltonii* with multi-step ulcer preventive activity. **World J Gastroenterol**. Oct 21; 13(39): 5196-5207. **ISSN: 1007-9327** (IF-5.28)- SCImago ranking- 1.229 (**Q1**)
14. **Siddaraju MN**, Dharmesh SM. (2007). Inhibition of gastric H(+),K(+)-ATPase and *Helicobacter pylori* growth by phenolic antioxidants of *Curcuma amada*. **J. Agric. Food Chem**. Sep 5; 55(18): 7377-7386. **ISSN: 0021-8561** (IF-5.5)- SCImago ranking- 1.018 (**Q1**)
15. **Siddaraju MN**, Dharmesh SM. (2007). Inhibition of gastric H+, K+-ATPase and *Helicobacter pylori* growth by phenolic antioxidants of *Zingiber officinale*. **Molecular Nutrition & Food Research**. Mar; 51(3): 324-332. **ISSN: 1613-4133** (IF-5.6)- SCImago ranking- 1.079 (**Q1**)
16. H. Shenoy and **Siddaraju. M. N (2020)**. Effect of integrated nitrogen management through organic and inorganic sources on yield of rice (*Oryza sativa* L) and status of soil fertility at harvest. **Journal of Applied and Natural Science**. 12(4) 721-727 (Print ISSN: 0974-9411, online ISSN: 2231-5209). (UGC-CARE List Group II, Scopus indexed).- (IF-0.26)- SCImago ranking- 0.126 (**Q4**)
17. Paramashree Deepa BK, and **Siddaraju M Nanjundaiah (2022)**. Extremotolerant Gelatinase Enzyme Production by UCM4 Bacterial Strain Isolated From the Rhizospheric Soil of *Rhizophora Mangle*. **Asian Journal of Biological and Life Sciences**, Vol. 11 (3), 769-775. – DOI:10.5530/ajbls.2022.11.103. – (UGC-CARE List Group II, Web of science)

Published in Journals not listed in UGC care or Scopus

18. H. Shenoy and **M. N. Siddaraju (2020)**. Integrated Nitrogen Management in rice Crop through Organic and Inorganic Sources. **Int. J. Curr. Microbiol. App. Sci** Vol. 9(9): ISSN: 2319-7706.
19. Bindu, Aparna, Anitha Nagaraju and **Siddaraju M N (2022)**). Variations in photosynthetic pigments of young and adult leaves of some selected plants species. **Asia Pacific J. Res**. Vol: I. Special Issue XVI, August 2022

Papers published in Conference proceedings (09)

1. K Moudgil, S Dudics, B Astry, A Laurence, **Siddaraju M Nanjundaiah**, R Meka, H Yu, L Tong, S Venkatesha, J O'Shea, CT Che, B Berman (2019). The Th17/Treg balance and defined micro-RNA-regulated genes mediate the anti-arthritis activity of traditional Chinese medicine Celastrol and its bioactive Celastrol. **Eur J Immunology**. Vol-49 (suppl 3), p1884. DOI: 10.1002/eji.201970400. **ISSN 0014-2980 (IF-4.6)**.
2. Nagamma E, Ravikiran, Gowthami Shenava and **Siddaraju M.N.** (2016). "Weeds: ecological and scientific attributes" published in proceedings of 10th Biennial Lake Conference on Conservation and sustainable management of ecologically sensitive regions in western ghats. P338-343. Lake 2016, 28-30th Dec 2016.
3. Priya M, Nagarathna K.A and **Siddaraju M.N** (2016). "H1N1 infection in Dakshina Kannada district, India; comparison with the data from Global Influenza Surveillance and Response System (GISRS)" published in **proceedings of 4th International UGIT Conference** on Remote Sensing and GIS and its applications on Coastal Management. p229-232. **ISBN:978-81-930542-1-5** at University College Mangalore on Feb 16-17.
4. Nagarathna K.A and **Siddaraju M.N.** (2016). "Community Perceptions Regarding Communicable Diseases in an Urban Area of Dakshina Kannada District" published in proceedings of 4th International UGIT Conference on "Remote Sensing and GIS and its applications on Coastal Management". p397-399. **ISBN:978-81-930542-1-5** at University College Mangalore on Feb 16-17.
5. **Siddaraju M.N.** (2015). "H. pylori- an enemy within our body" published in proceedings of State level seminar on "Recent trends and Opportunities in the study of Basic Sciences". P59-60. **ISBN978-81-929835-5-4** at Sri Venkataramana Swamy College, Bantwal, Karnataka, India. July 14-15.
6. **Prathika A. Devarushi, Siddaraju M. N. and Nagarathna K.A** (2015). "Nest- a place to rest and rear" published in proceedings of State level seminar on "Recent trends and Opportunities in the

study of Basic Sciences". p59-60. ISBN978-81-929835-5-4 at Sri Venkataramana Swamy College, Bantwal, Karnataka, India. July 14-15

7. **Nanjundaiah, S.**, Lee, D., Ma, Z., Yu, H., Lao, L., Fong, H., Berman, B., Moudgil, K. and Astry, B. (2012). Traditional Chinese herbal formula HLXL controls ongoing arthritis by regulating the immune mediators of leukocyte trafficking and joint damage. *BMC Complementary and Alternative Medicine*, P26. Published online 2012 Jun 12. doi: 10.1186/1472-6882-12-S1-P2.
8. Venkatesha, S. H., Yu, H., **Nanjundaiah, S.**, Astry, B., Rajaiah, R., Tong, L., & Moudgil, K. D. (2012, May). *Celastrus aculeatus* Merr. Suppresses Autoimmune Arthritis In Rats By Inhibiting Pathogenic T-Cell And Antibody Responses. In *Pharmaceutical Biology* (Vol. 50, No. 5, pp. 599-599).
9. B Astry, S Venkatesha, S **Nanjundaiah**, H Yu, L Tong, K Moudgil. (2012) *Celastrus* suppresses the progression of autoimmune arthritis in rats by reducing cellular migration as well as production of pro-inflammatory cytokines and chemokines (116.11). *The Journal of Immunology* 188 (1 Supplement), 116.11-116.11.

Papers presented in Conferences/Seminars (22)

1. **Siddaraju M.N (2020)**. Presented a paper on "Effect of Plastic on Seed Germination and Plant Growth" at **National Conference on "Pollution and Bioremediation- Current Scenario and future prospects"** organized by Dept of Biosciences, Mangalore University on 7th March 2020. **Received Best Presentation Award.**
2. **Siddaraju M.N (2020)**. Presented a paper on "Treating Arthritic Bone Damage through Molecular Targets by *Celastrus*" at **International Conference on Frontiers in Chronic Diseases** organized by Bishop Heber College, Trichy, Tamil Nadu on 19th Feb 2020.
3. **Siddaraju M.N (2018)**. Presented a paper on "Forgotten practices of Unforgettable Traditional Food storage" at "Food and Human welfare- Future and beyond" organized by St. Agnes College, Mangalore on 15-16th Feb 2018.
4. **Siddaraju M.N (2017)**. Presented a paper on "Molecular targets to treat arthritic bone damage by natural herbal products" at "National Conference on Science and Technology-Reaching the Unreached -Recent advances in Physical, Chemical, Mathematical and Biological Sciences for Energy, Health and Environment" organized by Mangalore University on 8-9th Sept 2017.
5. **Siddaraju M.N (2017)**. Presented a paper on "Anticancer efficacy of *Curcuma amada*" at 'National Conference on Natural Bioactive compounds and potential effects on health' organized by St. Aloysius College, Mangalore on 27th Jan 2017.
6. **Siddaraju M.N (2017)**. Presented a paper on "Weeds that does not need care yet maintain a ground cover" at **National Seminar on 'Wildlife Management and Conservation in India'** organized by St. Aloysius College, Mangalore on 6-7th Sept 2017.
7. **Siddaraju M.N (2016)**. "H1N1 infection in Dakshina Kannada district, India; comparison with the data from Global Influenza Surveillance and Response System (GISRS)" published in proceedings of **4th International UGIT Conference on Remote Sensing and GIS** and its applications on Coastal Management. Organised by University College, Mangalore on 16th -17th Feb 2016.
8. **Siddaraju M.N. (2016)**. Presented a paper on "Why Ginger is a better option for Ulcer cure?" **National Conference on Ethnomedicine** organized by SIMA (Society of Indian Medical Anthropology) and Vivekananda College, Puttur, Karnataka, India on 6th- 8th Feb 2016.
9. **Siddaraju M.N. (2016)**. Presented a paper on "Weed- a plant in the wrong place can yield right Biochemicals" **Annual symposium of Society of Biological Chemistry** organized by NITTE University, Deralakatte, Mangalore, Karnataka, India. 14th Nov 2016.
10. **Siddaraju M.N. (2015)**. Presented a paper on "H. pylori- an enemy within our body" at **State level seminar on "Recent trends and Opportunities in the study of Basic Sciences"**. at Sri Venkataramana Swamy College, Bantwal, Karnataka, India. 14th -15th July 2015. **Received Best paper Award.**
11. **Siddaraju M. Nanjundaiah** and Kamal Moudgil. (2014). Molecular targets to treat arthritic bone damage by natural herbal products. **National Seminar on Natural Vs Synthetic drugs** organized by St. Aloysius College Mangalore in association with Society of Biological Chemists India. 30th Sept 2014.

12. **Siddaraju M. Nanjundaiah**, David Y.-W Lee, Zhongze Ma, Brian Astry, Harry H.S. Fong, Lixing Lao, Brian M. Berman, and Kamal D. Moudgil. (2012). Traditional Chinese herbal formula HLXL controls ongoing arthritis by regulating the immune mediators of leukocyte trafficking and joint damage. **International Research Congress on Integrative Medicine and Health**. Portland, Oregon. USA May 15-18, 2012.
13. Brian Astry, Shivaprasad H. Venkatesha, **Siddaraju M. Nanjundaiah**, Hua Yu, Li Tong, Kamal D. Moudgil. (2012). Celastrus suppresses the progression of autoimmune arthritis in rats by reducing cellular migration as well as production of pro-inflammatory cytokines and chemokines. **99th Annual meeting of American Association of Immunologists**. Immunology. Boston, Massachusetts. USA May 04-08
14. Hong R Kim, Shailesh R Satpute, hua yu, **Siddaraju M Nanjundaiah**, Shivaprasad H Venkatesha, Li Tong, Kamal D Moudgil. (2011). Antibodies to heat-shock protein 65 afford protection against autoimmune arthritis. **5th International Congress on Stress Response in Biology and Medicine. Cell stress society international (CSSI)**. Quebec city, Canada. August 21-25
15. Srikanta .B.M, **Siddaraju M.N**, and Shylaja. M. Dharmesh. (2006) Swallow root pectic polysaccharide: its efficacy as a potential antiulcer source against ulcer. **International symposium on Building leadership skills in food and nutrition** essential for national development, CFTRI, Mysore June 23- 25
16. **Siddaraju M.N**, Srikanta.B.M and Shylaja. M. Dharmesh. (2006) Ginger pectic polysaccharide: its efficacy as a potential alternative source against ulcer. 2nd Ethno pharmacology, **International symposium on Ethnopharmacology** Trichur, Kerala February 2-4
17. **Siddaraju M.N**, Smitha.J and Shylaja. M. Dharmesh (2005) Antiulcer activity of ginger phenolic fractions *in vitro*. **National Conference and 17th Food Convention, NIMHANS, Bangalore**, December 5-6 **Received Best poster award.**
18. **Siddaraju M.N**, Smitha.J and Shylaja. M. Dharmesh (2004). Multistep ulcer intervention in vitro by Mango ginger (*Curcuma amada*). **National Conference and 16th Food Convention, CFTRI, Mysore**, December 5-6
19. **Siddaraju M.N** (2004). Participated in the Seminar on “Emerging trends in microbiology” held at Department of Microbiology, Kuvempu University, P.G. Centre, Davangere during 28th and 29th February 2004.
20. **Siddaraju M.N**, Smitha.J, Harish Nayaka M.A and Shylaja. M. Dharmesh (2003). Potential ulcer preventive components from aqueous extract of swallow root (*Decalepis hamiltonii*). **International Conference, 10th FAOBMB Congress and 73rd Annual meeting of SBC, IISc. Bangalore**, Dec. 7-11
21. **Siddaraju M.N**, Smitha.J, Sathisha U.V. and Shylaja. M. Dharmesh. (2003). Potential gastric ulcer preventive polysaccharide from Ginger (*Zingiber officinalis*). **XVII National Carbohydrate conference**. IACS and IICB, Kolkata. November 5-7
22. Multi-potent antioxidant components in *Decalepis hamiltonii* (swallow root). (2003). **Siddaraju M.N**, Harish Nayaka M.A, and Shylaja. M. Dharmesh. (2003). **International conference on Role of Free Radicals and Antioxidants in Health and Disease** and 2nd Annual Conference of SFRR-India, Dept. of Biochemistry, CSM Medical University, Lucknow. Feb. 10-12
23. Yougendra Nayak, Harish Nayaka M.A, **Siddaraju.M.N**, and Shylaja. M. Dharmesh. (2002). Cancer preventive activity of swallow root (*Decalepis hamiltonii*). **22nd Annual Convention of the IACR and International symposium on recent advances in cancer causes and control**, Thiruvanthapuram, Kerala. Jan.10-12

SEMINARS/WORKSHOPS/TRAINING PROGRAM ORGANIZED (20)

1. Innovation Club celebrated Birth Anniversary of Microbiologist Christian Gram by organizing a **National level Online Quiz on Gram Staining** for Students, Research Scholars and Faculty on **13th Sept 2020**. 142 candidates participated.
2. Department of Botany Organized a **National level Online Quiz on Cell Biology** for Students, Research Scholars and Faculty on **26th June 2020**. 613 candidates participated.
3. Organized **UGC/CSIR/NET Coaching Classes** in association with University Employment Information and Guidance Bureau, Mangalore University for eligible Teachers and students (106 members) at University College Mangalore on **1st Nov to 1st Dec 2019**.
4. In association with Japanese Team, organized a 3-day workshop on **"Social Entrepreneur's School for Youth in Mangalore, India- Chapter 2"** from 20th to 23rd March 2019.
5. Organized **one day Intercollegiate Science fest- Scilore-2k19 in association with science faculty** at University College Mangalore. Karnataka, India on 25th Feb 2019. Resource Persons
6. Organized **one day Workshop on "What next after B.Sc. – Career and opportunities"** at University College Mangalore. Karnataka, India on 27th June 2018. Resource Persons- Prof. Sarojini B.K. Head, Industrial Chemistry. Prof. Monica Sadananda. Head, Biotechnology, Mangalore University, Prof. Suchetha kumari, Head Biochemistry, KSHEMA. Mr. Jagannath KAS, Employment Officer, Mangalore.
7. Organized One day **Career counseling lecture** for college students at University College, Mangalore on 10th Feb 2018.
8. Organized **"10 days coaching for competitive exams"** in association with Dr. Jayaraj and Employment office Mangalore at University College, Mangalore on 10 - 20th Jan 2018.
9. Organized One day Intra- Collegiate Science Competitions **"SCLIORE-18/18"** at University College, Mangalore on 18th Jan 2018.
10. In association with Japanese Team, organized a 7-day workshop on **"Social Entrepreneur's School for Youth in Mangalore, India"** from 23rd to 29th Aug 2017.
11. In association with Karnataka Rajya Vijnana Parishad, Dakshina Kannada division organized a **District level Science Seminar Competition in Kannada for BSc students** at University College Mangalore on 22nd July 2017.
12. Organizing Secretary of one day **Workshop on "Cycling; revisiting the healthy ways of Life"** at University College Mangalore. Karnataka, India on 15th March 2017.
13. In association with Botany Department, organized an Invited talk on **"Food and Immune system"** at University College Mangalore. Resource person Dr. Y.P. Venkatesh, Senior Scientist, CFTRI Mysore on 28th Jan 2017
14. In association with Women's' forum organized a **"Student Counseling program"** at University College Mangalore. Resource person Mr. Prakash N. Student counselor on 10th Jan 2017
15. Organized a student seminar on **"Sandford Fleming; inventor of TIME ZONES"** at University College Mangalore. Karnataka, India on 7th Jan 2017.
16. Organized a seminar on **"Importance of Birds in Ecological balance"** at University College Mangalore. Resource person Dr. Hemachandra, Professor from St. Aloysius College on 5th Jan 2017.
17. Convener of a **7 day Biology concepts for Computer students and Computer training for biology students - "Bridge-16"** at University College Mangalore. Karnataka, India on 23rd- 29th Jun 2016.
18. In association with NSS, organized a **7 day training workshop on "Entrepreneurship Development Program"** at University College Mangalore on 28th Jan to 2nd Feb 2016.
19. Convener of a **15 day Computer training program "Smart 15"** for non-computer Science students at University College Mangalore. Karnataka, India from 15th- 29th Dec 2015.
20. Organizing Secretary of one day **a one-day Workshop on "What next after B.Sc. – Career and opportunities"** at University College Mangalore. Karnataka, India on 28th April 2015. Resource Persons- Prof. Sarojini B.K. Head, Industrial Chemistry. Prof. Monica Sadananda. Head, Biotechnology, Mangalore University.

21. Organized a seminar talk on **"Innovations at College level"** for BSc students at University College Mangalore. Resource person. Dr. Jayavanth Nayak. Economics Professor, University College Mangalore on 1st Dec 2015.

INVITED TALKS (11)

1. Resource Person and talk on "Understanding Autoimmune arthritis and osteoimmune crosstalk" in **One-week National Webinar Series (NWS)-2020** on "Immunity and infection: Biochemical approaches to therapies" organized by Department of Biochemistry, Davangere University and Society of Biological Chemists (India), Davangere Branch. Held from 15th -21st June 2020.
2. Invited as Mentor for an **International Global Online Youth Education Summit (GOYES-2020)** organized by Akanksha Charitable Trust on 24th May 2020.
3. Invited talk on **"Seed ball: a step towards securing future green"** at Shri Bhuvanendra College, Karkala organized by Nature Club SBK Degree College, Karkala, Karnataka, India on 21st Feb 2019.
4. Invited talk on **"Grassroot innovations and Young Innovators of India"** at SVS Degree College, Bantwal organized by Nature Club SVS Degree College, Bantwal, Karnataka, India on 6th Feb 2019.
5. Participated as Resource person and delivered an Invited talk on **"Documentation of Traditional Knowledge"** at NSS Annual special Camp organized by Govt Degree College, Bantwal, Karnataka, India on 11th Dec 2018.
6. Invited talk on **"Student Projects: A platform to trigger the curious minds"** at Canara Degree College, Mangalore organized by Dept of Botany Canara Degree College, Mangalore, Karnataka, India on 5th Sept 2018.
7. Invited talk on **"Innovations and inspiration for College students"** at SCIENCE CONCLAVE-2018 organised by Akanksha Charitable Trust in association with Vivekananda College, Puttur at Puttur, Karnataka, India on 03rd March 2018.
8. Invited Talk on **"Fighting the enemy that evolved inside our bowel"** at a National conference on "The Role Of Life Science in Health Care" organized by Marudhar Kesari Jain College for women, Vaniyambadi, Tamil Nadu on 24th Feb 2018.
9. Invited Lecture on **"Insight on Intellectual Property Rights in Life Sciences"** at Alvas College, Moodbidri on 1st Feb 2017.
10. Invited Lecture on **"Young innovators of India"** in DST-Inspire Science Internship Camp held at Pilikula Science Center on 27th Nov 2016.
11. Invited lecture on **"Vanamahotsava and Water Conservation"** at Milagres PU College on 18th July 2017.

ORIENTATION/REFRESHER COURSE/FDP Participated (04)

1. Participated in **One-week STC/FDP** organized by UGC-HRDC, Jai Narain Vyas University, Jodhpur, Rajasthan on "MOOC's and Online Education" on 13th Sep to 19th Sep 2022
2. Participated in **One week FDP** organized by UGC-HRDC, Jai Narain Vyas University, Jodhpur, Rajasthan on "Artificial Intelligence, ML & Data Analytics" on 25th March to 30th March 2022
3. Participated in **Two-week Refresher Course** organized by UGC-HRDC, Jai Narain Vyas University, Jodhpur, Rajasthan on "Environmental Sciences and Green Technology" on 15th Nov to 30th Nov 2021.
4. Participated in **One week Green Audit Course** organised by Nature Science, Coimbatore, Tamil Nadu. Held from 20th to 27th Aug 2021.

5. Participated in **One Month Online course in Microbiology Course** organised by Nature Science, Coimbatore, Tamil Nadu. Held from 13th Jul to 13th Aug 2020.
6. Participated in **One-week Online Faculty Development Program (FDP)** on "Insights on Writing Research Proposals & Funding Opportunities" organized by Research Facilities Group, St. Joseph Engineering College, Mangalore. Held from 20th to 25th July 2020.
7. Participated in **One-week National Level Online Faculty Development Program (FDP)** on "Effective Educator for Professional and Institutional Excellence" organized by Government First Grade College, Kavoor in association with Louis Publications, Mangaluru held from 8th June to 13th June 2020.
8. Participated in **14 days Refresher Course** sponsored by Science Academies of India (IASc, INSA & NASI) on "Bioresources: Prospecting, Utilization and Conservation" organized by Saiva Bhanu Kshatriya College, Aruppukottai, Tamil Nadu on 1st Nov to 14th Nov 2017.
9. Participated in **27 days Orientation program** organized by UGC- Academic Staff College, University of Mysore on 24 Dec 2014 to 20 Jan 2015.

SEMINARS/WORKSHOPS PARTICIPATED (18)

1. Participated in **One-week National Webinar Series (NWS)-2020** on "Immunity and infection: Biochemical approaches to therapies" organized by Department of Biochemistry, Davangere University and Society of Biological Chemists (India), Davangere Branch. Held from 15th -21st June 2020 (8BEFYC-CE000353).
2. Participated in **"Workshop on Identification techniques of Macro fungi and Lichens"** Dept of Botany, University College Mangalore on 5-6th Dec 2019.
3. Participated in **"Workshop on CBCS Syllabus for UG Botany Teachers"** organized by Vanashree-Association of Botany Teachers of Mangalore University at Dept of Botany, St. Philomena College Puttur on 27th July 2019.
4. Participated in **Regional Workshop on Research Based Pedagogical Tools** held in Jawahar Nehru Engineering College, Shimoga from 3rd – 5th June 2019.
5. Participated in **Two day "Legal Awareness Workshop on Biological Diversity Law in India"** organized by The United Nations Development Program in Collaborations with SDM Law College, Mangalore on 15th & 16th Feb 2019.
6. Participated in **"World Wetlands Day 2019"** organized by Karnataka Veterinary Animal and Fisheries Sciences University, Bidar and College of Fisheries, Mangalore on 12th Feb 2019
7. Participated in **"Workshop on CBCS Syllabus for UG Botany Teachers"** organized by Vanashree-Association of Botany Teachers of Mangalore University at Dept of Botany, University College Mangalore on 5th Dec 2018.
8. Participated in **International Conference on Radiation Biology** held at KS Hegde Medical Academy, Mangalore from 4th – 6th Oct 2018.
9. Participated in two-day **Lecture series in Molecular Genetics** held at KS Hegde Medical Academy, Mangalore from 24th – 25th Aug 2018.
10. Participated in **Regional Workshop on Research Based Pedagogical Tools** held in Nitte Center for Science education and research, Mangalore from 14th – 16th Feb 2018.
11. Participated in **"World Wetlands Day 2018"** organized by Karnataka Science Technology Academy and College of Fisheries, Mangalore on 2nd Feb 2018.
12. Participated in University level **"Workshop on Key words for the Botany Syllabus"** organized by Vanashree- Association of Botany Teachers of Mangalore at Dept of Botany, University College Mangalore on 13th Dec 2016.
13. Participated in a workshop on **"Emerging solar PV technology applications for Academics"** organized by SINE, IIT Bombay and Mangalore University Mangalore on 3rd Dec 2016
14. Participated in **"Workshop on Botany- new Syllabus for UG College Teachers"** organized by Vanashree- Association of Botany Teachers of Mangalore University and Dept of Botany, St. Agnes College Mangalore on 25th June 2016.
15. Participated in National workshop on **"Blood irradiation and its application in transfusion medicine"** organized by CARRT and NARRI, Mangalore University Mangalore on 17th Oct 2015.

16. Participated in **‘Mangalore Education Institute on Responsible Science’** jointly organized by NITTE University and National Academy of Sciences, Washington, USA from April 30 – May 03, 2015.
17. Participated in National level Seminar on **“Advances in Biological Sciences”** organized by Alva’s college Mudbidri on 28th Jan 2015.
18. Participated in National workshop on **“DNA barcoding- concepts and application”** organized by University College Mangalore on 18-19th Dec 2014.
19. Participated in a state level seminar on **“Edible and non-edible mushrooms of Karnataka”** organized by SIMA (Society of Indian Medical Anthropology) and Vivekananda College, Puttur, Karnataka, India on 12th Dec 2014.
20. Participated in **University level Workshop in Botany Syllabus** organized by Vanashree-Association of Botany Teachers of Mangalore University and Dept of Botany, University College Mangalore on 11th June 2014 at university College Mangalore.
21. Participated as Judge at the **International Conference on Radiation Biology with the theme “Advances in Radiation Biology- Radiotherapy and radiation countermeasures”** held at KS Hegde Medical Academy, Managlore from 4th – 6th Oct 2018.

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