JGI JAIN DEEMED-TO-BE UNIVERSITY | SCHOOL OF SCIENCES

DEPARTMENT OF BIOCHEMISTRY

Faculty Name : Dr. Sinjitha .S. Nambiar

Specialization : Molecular Biology

Education

- Ph.D from CSIR-Central Food Technological Research Institute (CFTRI), Mysore
- M.Phil from University of Kerala
- M.Sc in Biochemistry, from Ramaiah college of Arts, Science and Commerce, Bangalore

Work Experience

- Assistant Professor in Biotechnology, Dept. in Dayananda Sagar University (from 2019-2020)
- Teaching and post-doctoral research experience from Institute of Bioinformatics and applied Biotechnology (IBAB), Bangalore (2018-2019)
- Post-doctoral research experience (SERB-N-PDF and DBT-RA) in molecular biology from Indian Institute of Science (IISC), Bangalore (2016-2018)

Key Areas of Research interest

- Carcinogenesis
- Atherosclerosis
- Bionanotechnology
- Scarless wound healing and Regeneration biology

Publications

4 important publications

Dr. Sinjitha .S. Nambiar, Nandini Prasad Shetty, screening of traditional food plants for the selection of the plant with best antioxidant and anti-atherosclerotic capacity. International Journal of Research and Analytical Reviews (IJRAR), 2022, 9 (3), 883-904

Sinjitha S. Nambiar, Anindya Basu , Nandini P. Shetty , Navin K. Rastogi, S.G. Prapulla, Infusion of fructooligosaccharide in Indian gooseberry (Emblica officinalis) fruit using osmotic treatment and its effect on the antioxidant activity of the fruit. Journal of Food Engineering, 2016, 190, 139-146.

Sinjitha S. Nambiar, K. S. Venugopal, Nandini Prasad Shetty, K. A. Anu Appaiah, Fermentation induced changes in bioactive properties of wine from Phyllanthus with respect to atherosclerosis. Journal of Food Science and Technology, 2016, 53(5), 2361–2371.

Sinjitha S. Nambiar and Nandini Prasad Shetty, Antioxidant and Atherogenic Foam Cell Prevention Ability of Methanol and Aqueous Extract of *Emblica officinalis Fruits and its* Effect on CD36 and ABCA1 gene expression in RAW 264.7 macrophage cell line, Journal of Food Biochemistry, 2014, Vol. 38, 563–574

All publications

Sinjitha .S. Nambiar, Nandini Prasad Shetty, screening of traditional food plants for the selection of the plant with best antioxidant and anti-atherosclerotic capacity. International Journal of Research and Analytical Reviews (IJRAR), 2022, 9 (3), 883-904

Sinjitha .S. Nambiar, antioxidant activity of polyphenols in combating atherosclerosis. International Journal of Research and Analytical Reviews (IJRAR), 2022, 9, (3), 905-924

Hari Priyaa G, Sunil S. More and Sinjitha S Nambiar, Nutraceuticals: A Better Alternative to Statins in the fight Against Atherosclerosis? - A Review. International Journal of Advanced Research, 2019, 7, 858-862

Sinjitha S. Nambiar, Maria Sheeba Nazareth and Nandini Prasad Shetty, Antioxidant, anti-inflammatory properties and ox-LDL uptake prevention potential of Physalis minima at two stages of maturity. Indo American Journal of Pharmaceutical Research, 2017, 7(10), 586-594

Sinjitha S. Nambiar, Ashwini, Nandini Prasad Shetty, R. Ravi And P. Prabhasankar, Changes in properties of muffins incorporated with Emblica officinalis fruit osmodehydrated with Fructooligosaccharide. Journal of Food Processing and Preservation, 2017, 41 (2), e12858.

Sinjitha S. Nambiar, Anindya Basu , Nandini P. Shetty , Navin K. Rastogi, S.G. Prapulla, Infusion of fructooligosaccharide in Indian gooseberry (Emblica officinalis) fruit using osmotic treatment and its effect on the antioxidant activity of the fruit. Journal of Food Engineering, 2016, 190, 139-146.

Sinjitha S. Nambiar, K. S. Venugopal, Nandini Prasad Shetty, K. A. Anu Appaiah, Fermentation induced changes in bioactive properties of wine from Phyllanthus with respect to atherosclerosis. Journal of Food Science and Technology, 2016, 53(5), 2361–2371.

Sinjitha S. Nambiar and Nandini Prasad Shetty, Phytochemical Profiling and Assessment of Low-density Lipoprotein Oxidation, Foam Cell-preventing Ability and Antioxidant Activity Of Commercial Products Of *Emblica officinalis* Fruit, Journal of Food Biochemistry, 2015, Vol. 39, 218-229

Sinjitha S. Nambiar, M. Paramesha and Nandini Prasad Shetty, Comparative analysis of phytochemical profile, antioxidant activities and foam prevention abilities of whole fruit, pulp and seeds of *Emblica officinalis.* Journal of Food Science and Technology, 2015, 52, 7254

Sinjitha S. Nambiar, Nandini Prasad Shetty, Praveena Bhatt, Bhagyalakshmi Neelwarne, Inhibition of LDL oxidation and oxidized LDL-induced foam cell formation in RAW 264.7 cells show anti-atherogenic properties of a foliar methanol extract of *Scoparia dulcis.* Pharmacognosy Magazine, 2014, Vol 10, Issue 38 (Supplement 2), S240-S248.

Sinjitha S. Nambiar and Nandini Prasad Shetty, Antioxidant and Atherogenic Foam Cell Prevention Ability of Methanol and Aqueous Extract of *Emblica officinalis Fruits and its* Effect on CD36 and ABCA1 gene expression in RAW 264.7 macrophage cell line, Journal of Food Biochemistry, 2014, Vol. 38, 563–574

BOOK chapters: 1 under communication

PhD Guidance:

Completed:0
Ongoing:1

Projects (External funded/Internal) : -

Patents:

i) Title of the patent: Multimodel approach for Targeting Brain Tumors with Mesenchymal Stem Cells, Dated 10th December 2021, Dr. K. Muthuchelian, Dr. Farhan Zameer, Dr. C. Suganya, Dr.S.Geetha, Dr. P. Thangavel, Dr. G. Sridevi, Dr. R.Ganesan, Dr.S.Umadevi, Dr. E. Marimuthu, Dr. Sinjitha .S. Nambiar

ii) Title of the patent: Emerging Nano-medicines Method for Effective Breast Cancer Immunotherapy, Dated 04/02/2022, Dr. K. Muthuchelian, Dr. Farhan Zameer, Dr. C. Suganya, Dr.S.Geetha, **Dr. Sinjitha .S. Nambiar**, Dr. R.Ganesan, Dr. E. Marimuthu.

iii) Title of the patent: "Selective Intracellular Targeting of Cancer Cells and Methods of use thereof", Dated: 04/03/22, **Dr. K. Muthuchelian, Dr. Farhan Zameer, Dr. Sinjitha .S. Nambiar, Dr. M.Gnana Ruba Priya, Dr. S. Saravanan, Dr. C. Suganya, Dr. R.Ganesan, Dr.Asha Kannan A.P.**