

NADANA SABAPATHI. Ph.D

16, Mettu Street, Sendamangalam post, Namakkal, Tamil Nadu, India-637409

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Education

Ph.D (Biochemistry) 2015 | Periyar University, India

M. Sc (Bioinformatics) 2009 | University Of Madras, India

B.Sc (Biochemistry) 2007 | Periyar University, India

Work Experience

- Assistant Professor- Department of Biotechnology, K.S.Rangasamy College Of Technology, Namakkal (July 2024-Present).
- Assistant Investigator, Center Of Translational Research, Shenzhen Bay Laboratory, Shenzhen, China (April 2023- Jan 2024)
- Assistant Professor-Department of Biochemistry (March2021-Dec2021)-PGP College of Nursing and Research
- Postdoctoral fellow- Guangdong Key Laboratory for Genome Stability & Disease Prevention, Shenzhen University School of Medicine, Shenzhen, China(March 2018-March 2021). **Project:** Identification of Forkhead Box proteins in DNA damage response by molecular imaging and its mechanistic investigation.
 - FOXC1 negatively regulates the ATM-P53 pathway signaling
 - FOXC1 stability alters by DNA damage and undergoes post translational modification
 - Identification of interaction targets for FOXC1
- Postdoctoral fellow-China-US (Henan) Hormel Cancer institute, affiliated with The University of Minnesota, Zhengzhou, China (April 2015-August 2017).
Project: Molecular mechanism of TLK1 kinase in lung cancer. Patient derived xenograft model development for our Institution.

Technical Skills

- Cell culture and transfections (Over expression and gene knock out)
- Protein purification (IP, Co-IP, Pull down) and Western blotting
- Real time PCR
- Flow cytometry staining and analysis
- Live cell image using Confocal microscopy
- Immuno Histochemistry(IHC) and immune fluorescence(IF)

- Induce patient derived xenograft (PDx) and xenograft models
- Biostatistics and Computational Biology (C,C++)

Relevant experience

- Visiting research scholar in the laboratory of Prof. Basim Ogretman, Department of Biochemistry and Molecular Biology, Hollings Cancer Center, Charleston, South Carolina, USA(May-Dec 2012).
- Training program for advanced techniques in Biochemical and Molecular biological organized by Prof. D. Dash, Department of Biochemistry, Institute of Medical Science, Hindu Banaras University, Varanasi, Uttar Pradesh, India.(Oct 2011).
- C and C ++ programming course certified by Directorate of technical education Chennai, Thiagarajar polytechnic college, Salem, Tamilnadu, India.
- Handled experimental demonstrations in Biochemistry and molecular biology for Masters Students, Department of Biochemistry, Periyar University, Salem, India.

Publications

- Nadana Sabapathi, Ramalingam S, Aruljothi KN, Lee J, Barathi S. Characterization and therapeutic applications of biosynthesized silver nanoparticles using cassia auriculate flower extract.Plants (Basel). 2023, 5;12(4):707.
- Selvaraj Barathi , Nadana Sabapathi, Sabariswaran Kandasamy, Jintae Lee. Present status of insecticide impacts and eco-friendly approaches for remediation-a review.EnvIRON Res.2024 Jan 1;240.
- Selvaraj Barathi, Nadana Sabapathi, Aruljothi, Jin-Hyung Lee, Jae-Jin Shim, PhD. Regulatory small RNAs for sustained eco-agriculture. Internation journal of molecular science. 2023,24(2):1041.
- Selvaraj Barathi, Chinnannan Karthik, S Nadanasabapathi, Indra Arulselvi Padikasan. Biodegradation of textile dye Reactive Blue 160 by Bacillus firmus (Bacillaceae: Bacillales) and non-target toxicity screening of their degraded products. Toxicology reports.2020(7) 16-22.
- Nadana Sabapathi, Sabarimurugan S, Madurantakam Royam M, Kumarasamy C, Xu X, Xu G, Jayaraj R.Prognostic Significance of FOXC1 in Various Cancers: A Systematic Review and Meta-Analysis. Mol Diagn Ther. 2019;23(6):695-706.
- Muthu R, Selvaraj N, Vaiyapuri M. Anti-inflammatory and proapoptotic effects of umbelliferone in colon carcinogenesis. Hum Exp Toxicol. 2016;35(10):1041-54.
- Nadana Sabapathi, Manju. Anti-cancer activity of caffeine, caffeic acid and combination on antioxidant and lipid peroxidation mechanism in human oral SCC cell line UM-SCC-14A. J

Biomed Res. 2015(Accepted).

- Nadasabapathi S, Rufia J, Manju V. Invitro free radical scavenging activity and bioavailability of dietary compounds caffeine, caffeic acid and their combination. Intl food res. 2013.20(6): 3159-3165.
- Rangunath Muthu, Prabu Thangavel, Nadasabapathy Selvaraj, Revathi Ramalingam, Manju Vaiyapuri. Synergistic and individual effects of umbelliferone with 5-fluorouracil on the status of lipid peroxidation and antioxidant defense against 1, 2-dimethylhydrazine induced rat colon carcinogenesis. Biomed and Pre Nut 2013.3(1). 74-82.

Seminar and conference

- Volunteer, the 9th International Symposium on DNA Damage Response & Human Disease (isDDRHD), Nov. 1-4th, 2018, Shenzhen University, Shenzhen, China.
- Volunteer, the 10th International Symposium on DNA Damage Response & Human Disease (isDDRHD), Nov. 8-10th, 2019, Shenzhen University, Shenzhen, China
- Poster presentation on 4th Zhengzhou International cancer forum and 2016 National academic forum for Post doctors, Zhengzhou, China.(Oct 26-28,2016).
- Participated “National conference on Implications and Intervention of Phytomedicine in Disease Management (IIPDM-2013) Organized by Department of Biochemistry, Periyar University, Salem-11, Tamil nadu, India . (Feb18-19,2013).
- Participated “International conference in health and disease: Challenging and future opportunities (ICPHD-2013) Organized by Department of Biochemistry and Biotechnology, Annamalai University, Tamilnadu, India. (Jan 23-25,2013).
- Participated “Recent Trends and Current Innovations in Cancer Biology” Organized by Department of Biochemistry, Periyar University, Salem-11, Tamil nadu, India.(Oct 24th2011).
- Resource person in 20 days “Young Student Scientist Program” Organized by Periyar University and Tamilnadu state council for science and Technology, Salem, India.(May 2-21, 2011).
- Participated & paper Presented on International Conference on Food and Nutraceuticals for Nutrition and Health: Technology and Delivery. Organized by Department of Food Science, Periyar University, Salem-11, Tamilnadu,(Jan 20-22, 2011).

Personal information

Date of Birth: 4, June, 1986

Sex: Male

Nationality: Indian

Status: Married

Declaration

I hereby declare that all the information mentioned herewith, are true to the best of my knowledge.

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