

Name: Dr. K. Nithya, B.Sc., (Agri.), M.Sc., M.Phil., Ph.D (Biotechnology)

Designation: PG Head & Assistant Professor

Department: Food Science & Nutrition

Date of Joining: 17-06-2019

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Educational Qualification:

| Degree | Subject | College / University & Place | Year Completed | Marks (%) |
|---------|---------------|---|----------------|-----------|
| Ph.D. | Biotechnology | Lady Doak College, Madurai/ MKU | 2019 | Awarded |
| M.Phil | Biotechnology | Lady Doak College, Madurai/ MKU | 2013 | 80% |
| M.Sc. | Biotechnology | Lady Doak College, Madurai/ MKU | 2012 | 76% |
| B.Sc. | Agriculture | Killikulam Agriculture College, Tirunelveli/ TNAU | 2006 | 91% |
| XII Std | Bio-Maths | PHNUSPPAM Higher Secondary School, Palamedu | 2002 | 90% |
| X Std | English | PHNUSPPAM Higher Secondary School, Palamedu | 2000 | 78% |

Specialisation in Teaching: Biotechnology, Biochemistry and Immunology

Specialisation in Research: Molecular genetics, Food biotechnology and Nutrigenomics

Research Interests: Nutrigenomics & Clinical nutrition

Other Work Experience:

| Designation | Institution / Company | Project Title | Year |
|----------------|---|---|-------------------|
| Project Fellow | UGC-Major Research Project F.No.43-577/2014(SR) Lady Doak College | Genetic polymorphism in folate metabolizing enzymes: Possible link with DNA damage in Diabetes mellitus among Indians | 3 Years 2015-2018 |

Administrative /Academic Position/s (held / currently holding):

| Positions held / currently holding | Year - From (month/year) To month/year) |
|------------------------------------|---|
| Assistant Professor | June 2019 to July 2020 |
| UG Head & Assistant Professor | August 2020 to May 2022 |
| PG Head & Assistant Professor | June 2022 to Till date |

Research Publications:

1. **Nithya K**, Angeline T. Oxidative stress and genetic polymorphisms in the folate metabolic pathway and its association with Type 2 diabetes mellitus. *Journal of Critical Reviews*. 2021; 8(2):339-50.
2. Neelaveni Rajendran, **Nithya Kamatchi**, Abirami Periyasamy & Vasantha Solomon. DNA-interaction, antibacterial and in vitro cytotoxic properties of copper(II) complexes bearing (E)-2-(2-(benzo[d]thiazol-2-ylthio)-1-phenylethylidene)thiosemicarbazone and diimine co-ligands. *Journal of Coordination Chemistry*. 2020: 1-17. DOI: 10.1080/00958972.2020.1751830. **Impact Factor: 1.751**
3. **Nithya K**, Angeline T, Priscilla AS, Asirvatham AJ. Prevalence of Glutamate Carboxypeptidase II C1561T, Reduced Folate Carrier I A80G and Methionine Synthase A2756G gene polymorphisms in patients with Type 2 Diabetes Mellitus among south Indians. *Asian J Pharm Clin Res*. 2019;12; 170-175. DOI:10.22159/ajpcr.2019.v12i12.35656. **Impact Factor: 0.315**
4. Rajendran N, Abirami P, **Nithya K**, Vasantha S. Biological evaluation of copper (II) complexes on N (4)-substituted thiosemicarbazide derivatives and diimine co-ligands using DNA interaction, antibacterial and in vitro cytotoxicity. *Journal of Coordination Chemistry*. 2019: 72; 1937-1956. **Impact Factor: 1.751**
5. Rajendran N, **Nithya K**, Vasantha S. Biological efficacy of mixed ligand copper (ii) complexes of n (4)-substituted thiosemicarbazone and diimine co-ligands as chelating n, n'-donor ligand. *Asian J Pharm Clin Res*. 2019;12(7): 280-285. **Impact Factor: 0.315**
6. **Nithya K**, Isabel W, Angeline T, Priscilla AS, Asirvatham AJ. Association of MTHFR A1298C gene variant, DNA damage and Total Antioxidant Status with the risk of Type 2 diabetes mellitus and its complications. *Asian J Pharm Clin Res*. 2018;11; 344-348. **Impact Factor: 0.315**
7. **Nithya K**, Isabel W, Angeline T, Priscilla AS, Shakila H, Asirvatham AJ. MTHFR C677T gene polymorphism in type 2 diabetes mellitus patients with and without vascular complications: A case-control study. *Meta Gene*. 2017: 14; 79-84. **Impact Factor: 0.514**
8. **Nithya K**, Isabel W, Angeline T, Priscilla AS, Asirvatham AJ. Assessment of DNA

strand breaks and total antioxidant status in type 2 diabetic patients with and without complications- A case-control study. Asian J Pharm Clin Res. 2017:430-434. **Impact Factor: 0.315**

9. **Nithya K**, Angeline T, Isabel W, and Asirvatham AJ. “SOD1 Gene +35A/C (exon3/intron3) Polymorphism in Type 2 Diabetes Mellitus among South Indian Population. Genetics Research International. 2016, 1- 5. **Impact Factor: 2.13**
10. Lourdhu Mary A, **Nithya K**, Isabel W, and Angeline T. Prevalence of Catalase (-21 A/T) Gene Variant in South Indian (Tamil) Population. BioMed Research International. 2014. **Impact Factor: 2.276**
11. Lourdhu Mary A, Isabel W, Jose Heavena P, **Nithya K** and Jebasingh Dr. Assessment of catalase Activity in Oesophageal Cancer-a Case Control Study. International journal of scientific research 2013; 2(5): 481-482.

Conference / Seminar Presentations:

1. Paper presentation at 6th **International Conference** on Food & Nutrition organized by Universal society of Food & Nutrition (USFN) on the 25th & 26th October, 2023, Virtual, Canada.
2. Paper presentation at **International Conference** on “Precision Nutrition and Health: Foresight Future of Disease Prediction and Prevention” held on 20th December 2022, Fatima College, Madurai.
3. Paper presentation at **International Conference** on “Recent Advances in Allied Health and Biological Sciences Research” held on 18th and 19th November, 2022, Reva University, Bengaluru.
4. Paper presentation at **World congress on Cardiac Sciences** held on 28th & 29th November 2018 in Indian Institute of Science, Bengaluru.
5. Paper presentation at 49th Aqua-Terr Conference on Biological Sciences, February 27-28, 2018 in Madurai Kamaraj University, Madurai.
6. Paper presentation at **National conference** on Healthcare and Biotechnology in India: Emerging Trends and Challenges, August 17th & 18th, 2017 in Thanjavur.
7. Poster presentation at **International Symposium** on Trends in Human Genetic Research & Management, March 2-4, 2017 in Bangalore.
8. Paper presentation at **National Seminar** on Emerging Trends in Biological Research, September 16th & 17th, 2014 at Lady Doak College in Madurai.

External Examiner/ Lectures / Talks given:

1. Acted as question paper setter for the courses Nutritional Biochemistry, Applied Human Physiology and Advanced Food Science for the EOS November 2023 examinations- SRI MEENAKSHI GOVERNMENT ARTS COLLEGE FOR WOMEN, Madurai.
2. Acted as question paper setter for the course Introduction to Research Methodology & Research Methodology for Biotechnologists for the EOS November 2023 examinations- LADY DOAK COLLEGE, Madurai.
3. Invited for the Lighting ceremony to felicitate X & XII Mahatma school students held on 8th February, 2023.
4. Delivered a Guest lecture on the topics “Gene Polymorphisms and Responses to Diet, Genomics Techniques and Biomarkers” to the final year students of M.Sc Food Science and Nutrition, The Gandhigram Rural Institute-Deemed to be University, Gandhigram, on 5th November,2022.
5. Acted as question paper setter for the course Introduction to Research Methodology for the EOS November 2022 examinations- LADY DOAK COLLEGE, Madurai.
6. Acted as question paper setter for the courses Research Methodology and Community Nutrition for the EOS November 2022 examinations- SRI MEENAKSHI GOVERNMENT ARTS COLLEGE FOR WOMEN, Madurai.
7. Acted as question paper setter for the courses Food Production Technology and Food Biotechnology for the EOS November 2022 examinations- EDAYATHANGUDY G.S. PILLAY ARTS & SCIENCE COLLEGE, NAGAPATTINAM.
8. Acted as an external examiner for the courses Principles of Nutrition, Nutritional Biochemistry and Applied Human Nutrition for the EOS April 2022 examinations- Sri Meenakshi Government Arts College for Women, Madurai.
9. Acted as question paper setter for the courses Advanced Food Microbiology, Nutrition through life cycle and Marketing Management for the EOS April 2022 examinations-Jamal Mohamed College, Tiruchirappalli.
10. Acted as an external examiner for the PG project evaluation held on 2nd June, 2022 in PG Biotechnology Lab, Lady Doak College, Madurai.
11. Guest lecture on the topic “**Healthy Eating for a Healthy Living**” for Mahatma School Grade 9 children on 19th March 2022.

12. Resource Person for the webinar session on “**Precision Nutrition and Genetics**” on 07 March, 2022 organized by the Department of Psychology, The American College.
13. Acted as an External Examiner for practical examinations on 15th Nov, 2021 conducted by the Department of F&DT, Mannar Thirumalai Naicker College, Pasumalai, Madurai.
14. Topic on ‘**Recent Advances in Food Biotechnology**’ for the One month online invited talk series organized by Department of Home Science, The Gandhigram Rural Institute-Deemed to be University, Gandhigram, 2021.
15. Guest lecture on ‘**Nutrition and Immunity**’ for the Mental Health Webinar Series 2020, organized by Department of Psychology, The American College held on 13th November, 2020.
16. National level workshop on ‘**Recent Trends in Molecular Biology and Bioinformatics**’ held at Lady Doak College, Madurai (5th to 7th January, 2017)
17. Hands-on training in ‘**Techniques in Molecular Biology**’ -2015 held at Lady Doak College, Madurai (2nd to 4th December, 2015).

Awards / Fellowships:

- Won the **Best Oral Presentation award** for the paper titled “Precision Nutrition and Genetics: Future of Disease Prevention” at the **International Conference** on Food & Nutrition organized by Universal society of Food & Nutrition (USFN) on the 25th & 26th October, 2023, Virtual, Canada.
- Received **second prize for oral presentation** titled “Genetic polymorphism in folate metabolizing enzymes and possible link with DNA damage in Type 2 Diabetes mellitus among Indians” at **International Conference** on “Recent Advances in Allied Health and Biological Sciences Research” held on 18th and 19th November, 2022, Reva University, Bengaluru.
- Received **Best Teacher Award for higher education** from Redpond Educational and Psychological Research Centre, Madurai, September 2022.
- **Young Scientist Award** received from Science Father, 2nd International Research Awards on Science, Health and Engineering, 18-19 April 2020.

Membership in Professional Bodies:

1. **Web of Science Researcher ID** : ABD-7306-2021
2. **SAS Life Membership (LMSASS)** in Scholars Academic and Scientific Society (SAS Society) from 30th July, 2021.

ID No.SAS/ LMSASS /168/2021

3. **Reviewer** of Journal of Pharmaceutical Research International from 2021.
4. **Editorial Board Member** of AS Gastrointestinal Disorders Journal
5. **Editorial Board Member** of American Journal of Bioscience
6. **Member of The American College Hostel Board**
7. **Member of NAAC committee**

Academic Credentials:

1. **Smart Killies Medal** for highest OGPA during the academic year 2003-2004 (9.13/10.00)
2. **Ilangovan Endowment Medal** for highest marks in Engineering courses during the year 2006.
3. **Pioneer Batch Medal** for highest GPA during final B.Sc., (Agri).
4. **Charms Endowment Medal** for highest marks in Agricultural Microbiology.
5. **NSS Certificate** during 2002-2004 in III B.Sc. Agriculture.
6. **Form-3 Certificate** for participation in Kho-Kho Tournament held at Banasthali Vidyapith Rajasthan during 2004.
7. Certificate for **Personal Meritorious Achievement** during II M.Sc Biotechnology.
8. Certificate of **Merit for proficiency** in Elective forensic science during the year 2010-2011.
9. Certificate of **Merit for proficiency** in Major optional during the year 2011-2012.
10. Rank Certificate for **second rank** in Major – Biotechnology.

Participation in FDP/workshop/seminar/conferences:

1. Participated in the one week national level Faculty Development Program (online) on “Pedagogical Innovations and Strategies in Higher Education” from 27.12.2023 to 03.01.2024 jointly organized by A.C.T Academy, Tamil Nadu and SKR & SKR Govt.College for women, Kadapa, Andhra Pradesh.
2. Participated in the one day National conference on “Emerging Trends in Biological Sciences23” held on 19 September organized by the Department of Biochemistry, The American College, Madurai.
3. Participated & completed successfully the online Training session on “Basic Experimental Data Analysis using MS-Excel” organized by the RVision on 15th August, 2023.
4. Participated in the one week national level Faculty Development Program entitled “Advanced Research Methodology” from 24.7.2023 to 30.7.2023 conducted by A.C.T Academy, Tamil Nadu in association with Academic & Research Conglomerate.
5. Participated in Faculty Orientation Programme organized by the Internal Quality Assurance Cell (IQAC), The American College, Madurai on September, 2022.
6. Participated in FDP on “Biotechnology Today and Tomorrow: Innovations and Implications” organized by Marian Star centre, PG & Research Department of Zoology, St.Mary’s College (Autonomous), Thoothukudi sponsored by the Department of Biotechnology, Ministry of Science and Technology, Govt. of India, New Delhi from 1st to 5th September, 2022.
7. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Applications of CRISPR-Cas Gene Editing Tool" from 07/02/2022 to 11/02/2022 at Maulana Abul Kalam Azad University of Technology, West Bengal.
8. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Genome Engineering: Crispr-Cas as an emerging tool" from 14th-18th December 2021 organized by Department of Biotechnology, IMS Engineering College, Ghaziabad.
9. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Nutrigenomics Unveiled- Frontier in Healthcare” from 23rd November to 27th November 2021 organized by Bharati Vidyapeeth College of Pharmacy, Kolhapur.
10. Participated in the Two Days International Virtual Workshop on “Innovative Resources and IPR in Research” held on 08th -09th October 2021 organized by the

PG & Research Department of Mathematics, The American College (Autonomous), Madurai, Tamil Nadu, India.

11. Participated in the Webinar on “Circadian Rhythm, Stress and Wellness” organized by the Department of Psychology, The American College (Autonomous), Madurai, Tamil Nadu, India.
12. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Applications of Biotechnological and Analytical Tools in Pharmaceutical Research" from 14/09/2021 to 18/09/2021 at Meerut Institute of Engineering & Technology.
13. Participated in the Faculty workshop Science through Inquiry & Research (STIR-21) sponsored by the United Board for Christian Higher Education in Asia conducted through virtual mode during 24, 25 & 26 June. 2021 and completed the training in implementation of Research & Inquiry Based Pedagogy.
14. Participated in the International Webinar-IV, 2021 on “How electrochemistry and vibrational spectroscopy work in industry” and “Rechargeable Li-ion batteries (LIBs) and beyond: Chemist’s role towards technology development” organized by the PG & Research Department of Chemistry, The American College, Madurai, TamilNadu, India on August 14,2021.
15. Participated in the International webinar on “Promoting Ikigai to Arise & Shine” organized by The Ladies Club of The American College held on 29th July, 2021.
16. Participated in the Two day online National workshop on “Creating Interactive E-Content (Thinglink)” organized by Universal Teachers Academy, Puducherry held on 3rd & 4th May, 2021.
17. Participated in the “Sensitization Programme on the first 1000 days of life as a window of opportunity” organized by National Institute of Public cooperation and Child development, Regional centre Bengaluru from 8-9 February, 2021.
18. Participated in the webinar on “Lead the life in Style” organized by Women’s forum, The American College held on 1st February, 2021.
19. Participated in the online E-Quiz on “Boost your Immuno system through food to combat COVID-19” organized by the Department of Home Science, Government Arts College for women, Sivagangai held on May 2020.
20. Participated in the International Golden Joubilee Seminar on “Emerging trends in food processing technology-20” by Department of Food Processing Technology, Arul Anandar College, Karumathur, Madurai held on 1st January, 2020.

21. Participated in the State Level Seminar on “Opportunities and Challenges in the Emerging Spaces of Higher Education” held on 4th September, 2019.
22. Participated in the IPR and Patents: Prospects and challenges, PG and Research department of Zoology, Lady Doak College, Madurai held on 30th July, 2019.
23. Participated in the National Workshop on “Network Biology” held on 27th-28th of February, 2019.
24. Participated in the Two days workshop on “Excel and SPSS” on January 8-9, 2018.
25. Participated in the One day Lecture series on “Nanotechnology: New perspectives in Biomedical Applications” held on 2017.
26. Participated in the “One day seminar on Conserve today for a better tomorrow” held on 2016.
27. Participated in the Seminar on “Global Threat of Communicable & Non-Communicable Diseases with reference to Women’s Health” held on 2012.
28. Participated in the Prof. Whitin Endowment Lecture series cum National Seminar on “Global Threat of Communicable & Non-Communicable Diseases” held on 2011.