

SRI SANKARA ARTS & SCIENCE COLLEGE

ENATHUR, KANCHIPURAM

STAFF PROFILE

DEPARTMENT OF BIOCHEMISTRY

1.	Name of the Staff	Dr. K. AMUDHA
2.	Designation	ASSISTANT PROFESSOR
3.	Date of Joining	16.06.2015
4.	Mobile Number	9445251641
5.	E-Mail ID	amudhak225@gmail.com
6.	Nationality	INDIAN
7.	Academic Qualification	M.Sc., M.Phil., Ph.D.,
8.	Field of Specialization	Toxicology, Nanotechnology.
9.	Ph.D Thesis Title	Effect of Naringin on nickel induced toxicity in rats
	Awarding University, Year of Award.	Annamalai University, 2012

10. Work Experience (in chronological order):

S.No.	Name of the Institution	Designation	Period
1	Sri Sankara Arts and Science College	Assistant Professor	16/06/2015 - Till Date
2	Sri Akilandeswari women's college, Vandavasi	Assistant Professor	09.09. 2014 - 05.06.2015
3	Sri Akilandeswari women's college, Vandavasi	Lecturer	01.12.1997 - 14.03.2008
4	King Nandhivarman college of Arts and Science, Thellar	Lecturer	09/12/1996 - 28/11/1997

11. Other Academic and Administrative Responsibilities:

S.No.	Name of the Institution/Committee	Position	Period
1	Sri Sankara Arts and Science College / Attendance Committee	Member	2021-2024
2	Sri Sankara Arts and Science College/ Community radio service	Core group member	2018- 2020
3	Sri Sankara Arts and Science College/ Forum	Coordinator	2016- 2019

12. Publications:

S. No.	Title	Journal	Pages
1	Beneficial role of naringin, a flavanoid on nickel induced nephrotoxicity in rats	Chemico-Biological Interactions. 193 (2011) 57-64. ISSN: 0009-2797. (Impact Factor 5.192)	57-64
2	Antioxidant effect of naringin on nickel-induced toxicity in rats: an in vivo and in vitro study	International Journal of Pharmaceutical Science and Research. 2 (2011) 72-79. ISSN: 0976-8971, (Impact Factor 0.4)	72-79
3	Hepatoprotective role of naringin on nickel-induced toxicity in male Wistar rats	European Journal of Pharmacology. 650 (2011) 364-370. ISSN 0014-299 (Impact Factor 5.23)	364-370
4	Naringin improves nickel induced alterations of acetylcholinesterase, ATPase and oxidative stress in brain of rats	Journal of Natural Products and Biomedical Research, Volume 1; Issue 1; July 2015.	6-10
5	Naringin Ameliorates Nickel Induced Dyslipidemia in the Plasma of Rats.	South Asian Journal of Engineering and Technology Vol.2, No.24 (2016) 85-100. ISSN No: 2454-9614.	85-100

6	In-vivo and In-vitro Antioxidant Activity of Troxerutin on Nickel Induced Toxicity in Experimental Rats	Iranian Journal of Pharmaceutical Research (2020), 19 (2): 89-97. (Impact Factor 1.85)	89-97
7	Beneficial Protective Effect of Troxerutin on Nickel-Induced Renal Dysfunction in Wistar Rats	Journal of Environmental Pathology, Toxicology and Oncology, 37(1):1-14 (2018). ISSN 2162-6537. (Impact Factor 3.567)	1-14
8	Accumulation of Nickel in the soil and analysis of physico-chemical parameters of soil collected from SIPCOT industrial complex, Cuddalore District, Tamil Nadu	Malaya Journal of Biosciences 2017, 4(2):71-76. ISSN 2348-6236 print /2348-3075 online.	71-76
9	Comparative Study on Phytochemical Composition and Antioxidant Activity of Natural and Hybrid Variety of Papaya Leaves.	International Journal for Innovative Research in Multidisciplinary Field. Feb 2019; INFES004; 17-23 (Special Issue) (ISSN: 2455-0620).	17-23
10	Alzheimer treatment using medicinal plants	Emperor Journal of Life Science Research, 2021: 1 (1); 13-21	13-21
11	Bioremediation of cadmium	Emperor Journal of Life Science Research, 2021: 1 (1); 22-30.	22-30
12	Phytosynthesis, Characterization and Antimicrobial Activity of Copper Oxide Nanoparticles from Cassia auriculata.	Biosc.Biotech.Res.Comm. 2021: 14 (1) Pp 270-274. DOI:10.21786/bbrc/14.1/38	270-274
13	Antidandruff Activity of Polyherbal (Murraya koenigii, Moringa oleifera, and Psidium guajava) Extract against Malassezia Species: In Silico Studies	Advances in materials science and Engineering. 2022. Volume 2022 Article ID 7373942 https://doi.org/10.1155/2022/7373942 . ISSN: 16878442, 16878434. (Impact Factor 2.03).	1-13
14	Eco-friendly green synthesis of copper nanoparticles from Tinospora cordifolia leaves: optical properties with biological evaluation of anti-microbial, anti-inflammatory and anti-oxidant applications.	MATERIALS TECHNOLOGY 2023, VOL. 38, NO. 1, 2247908 https://doi.org/10.1080/10667857.2023.2247908 . (Impact Factor 3.82).	1-13
15	Facile synthesis and optical characterization of selenium nanoparticles synthesized using Clitoria ternatea and Zingiber officinale : in vitro biomedical evaluation of antioxidant potential and antibacterial activity against caries-causing microbes.	Materials Technology, Advanced Performance Materials 39(1), March 2024. DOI:10.1080/10667857.2024.2318062 . (Impact Factor 3.82).	1-14

13. Awards / Distinction:

S.No.	Name of the Award	Venue	Period
1	Best course content developer in Biochemistry for radio enabled learning project.	Sruthi community radio station. Sri Sankara Arts and Science College, Kanchipuram	2020

14. Membership in Professional Bodies:

S.No.	Name of the Membership	Venue	Period

15. Seminars/ Webinar/ FDP/Conferences organized /Participation:**a) Seminars/ Conferences organized/Participation:**

S.No.	Program Attended	Place	Organized/ Participated	Period
1	Webinar on “ Traditional System of Medicine in Modern Healthcare ”	Department of Biochemistry, Sri Sankara Arts and Science College, Kanchipuram	Participated	4 th January 2021
2	Two Days National Seminar on “ Recent Trends in Life Science ”	PG& Research Department of Biochemistry and Department of Microbiology, Bhakthavatsalam Memorial College for Women, Chennai	Participated	4 th & 5 th October 2019
3	International Conference on Stem Cell and Cancer Therapy (ICSC-2K19)	Department of Pharmacology, Saveetha Dental College and Hospital, SIMATS, Chennai	Participated	July 5 th 2019.
4	National Workshop on Fundamentals of Medical Coding	Department of Biochemistry, Sri Sankara Arts and Science College, Kanchipuram	Organized	8 th March 2019
5	National Seminar on Recent Strategies in Regenerative Therapy	Department of Biochemistry Sri Sankara Arts and Science College, Kanchipuram	Organized	8 th March 2018
6	National Seminar on Biomarkers in Clinical Research	Department of Biochemistry Sri Sankara Arts and Science College, Kanchipuram	Organized	7 th March 2017

7	District level Science Exhibition “Elixir- 2018”	Department of Biochemistry Sri Sankara Arts and Science College, Kanchipuram	Organized	6th and 7th February 2018
8	National Seminar on Towards Achieving Excellence in Higher Education	Department of Biochemistry Sri Sankara Arts and Science College, Kanchipuram	Participated	15th December, 2017
9	International symposium on health care system in cancer biology „can Bio“ 17	Adhiparasakthi College of Arts and Science, Kalavai.	Participated	20th September 2017
10	International conference on innovative Research in Life science	Dhanalakshmi Srinivasan College of Arts and Science for women, Perambalur	Participated	06th March 2017
11	State level symposium on Biopharmaceuticals	Adhiparasakthi College of Arts and Science, Kalavai	Participated	31st January 2017
12	Inter National Seminar on Emerging Paradigm in Cancer Therapy	Indo – American College, Cheyyar	Participated	17th August 2016
13	National Seminar cum Conference on Frontiers Research in Applied Biology and Environmental Science	King Nandhivarman College of Arts and Science	Participated	30th January, 2016
14	DST Sponsored 4th National Conference on Emerging Trends and New Challenges in Biotechnology – Bioenergy: A Step towards Sustainable Future organized	M.G.R College, Hosur	Participated	18th and 19th February 2016
15	National symposium on “Recent Advances in Biomedical Technology” (RABT 2015)	Thiruvalluvar University, Serkkadu, Vellore	Participated	26 th and 27th Feb 2015.
16	UGC Sponsored National Seminar on “ Nanomedicine and Phytotherapy- Current Senario and future Prospects ”- (NMPT- 2015)	Islamiah college, Vaniyambadi	Participated	11&12th March 2015.
17	National conference in Neoperspectives on chemical, Biochemical & Microbial World (NCBMW- 14”)	Akilandeswari women’s college, Wandavasi	Participated	10&11th October 2014
18	National conference on “Frontiers in Biology” & The Annual Meeting of the Society of Bioloical	Annamalai University, Annamalainagar	Participated	Feb 20, 2010.

	Chemists(INDIA)			
19	National conference on “Frontiers in Biology” & The Annual Meeting of the Society of Bioical Chemists(INDIA)	Annamalai University, Annamalainagar	Participated	Feb 14, 2009.
20	State level seminar on Prospects in Biotechnology (BIOTECHNOFEST-2003)	Akilandeswari women’s college, Wandavasi,	Participated	13th December 2003.
21	Seminar on Trends in Molecular Biology and Biotechnology organized by, Department of Zoology.	University of Madras, Guindy Campus	Participated	20th August 1999.

b) Webinars Participation:

S.No.	Name of the Webinar	Organized By	Date
1	webinar on “Recent Advances in Protein Engineering with a Focus in Antibody and Drug Discovery”	Neuberg Crew of the Department of Biochemistry, Dwaraka Doss Goverdha Doss Vaishnav College, Chennai,	22nd September 2021.
2	Webinar on “Innovation and IPR”	Intellectual Property Rights (IPR) Cell and Institution’s Innovation Council (IIC) of Sree Narayana Guru College	12.08.2021
3	“Personal excellance and Career Growth”	Annai Veilankanni’s Groups of Educational Institutions	6 th August 2021.
4	one day National Level online Webinar on “Outcome Based Education”	Internal Quality Assurance Cell (IQAC), Marudhar Kesari Jain College for Women, Vaniyambadi	31.07.2021.
5	Three days international webinar on “Antiviral Research”	School of Sciences, Hindustan College of Arts and Science, Padur, Chennai in association with “Antiviral Research” Society	July 22, 23 and 24 July 2021.
6	Participated in the webinar “Holistic Therapies for Mind, Body and Spirit”	Department of Biochemistry, Annai Veilankanni’s College for Women	July 2021.

7	National Webinar on “Exemplary Siddha Lifestyle Methods for Healthy Life”	PG Department of Social Work and PG & Research Department of Computer Science, Dr. Ambedkar government arts college (autonomous) Chennai	28th June 2021.
8	National webinar on “Climate smart benefits of bamboo to protect the environment”	the Guru Nanak Centre for research (GNCR), in association with the organization for industrial, spiritual and cultural advancement (OISCA) international - Guru Nanak College, Chennai	05.06.2021
9	National Webinar on ‘Restoring our Ecosystem for Future’ , on the occasion of ‘World Environment Day’	Centre for Environmental Studies (CES) and Centre for Water Resources Management (CWRM), University of Madras	5th June 2021.
10	National Webinar on “Basic insights and application of biomolecules in wound therapeutics”	Department of Biochemistry, S.I.V.E.T College, Chennai.	4.6.21.
11	one day International Webinar on “Role of Long Noncoding Rnas in Airway Mucoinflammation”	organized by Department of Microbiology, Sri Sankara Arts and Science College .	29th May, 2021.
12	International webinar series “Research across the Globe - Day 1”	- Department of Life sciences Association, Valliammal College for women, Chennai - 600 102	29.5.2021.
13	one day national webinar on "Physical Activity for Women Well Being"	Department of Physical Education, Valliammal College for women, Chennai - 600 102	28.05.2021.
14	Webinar on “Cheating of Cheater - COVID 19”	Department of Biochemistry, D.G. Vaishnav College, Chennai	28.5.2021
15	Webinar on “How to plan Start-up and Legal & Ethical Steps”	Internal Quality Assurance Cell & Institution’s Innovation Council (IIC), Sri Kanyaka Parameswari arts and Science College for women, Chennai,	28-04-2021
16	National webinar on “NAAC – Revised Accreditation Framework: Pathway to Excellence in HEI” .	IQAC, Sri Sankara Arts and Science College	19th February, 2021.
17	Webinar on COVID-19 Vaccines in India.	Department of Biotechnology, SRM Arts and Science College, Chennai	27 th February 2021

18	National Webinar - “Overview of Signal Transduction and Role of G Proteins” on	Department of Biochemistry, Soka Ikeda College of Arts & Science for Women, Chennai	02 nd December 2020.
19	International Webinar & 3rd National Conference of The Society for Alternatives to Animal Experiments	National Centre for Alternatives to Animal Experiments (NCAAE), Bharathidasan University, Tiruchirappalli	December 28, 2020.
20	National Webinar on “Patenting Inventions in India”	Ethiraj College For Women (Autonomous) , Chennai	Chennai, 16.05.2020.
21	International webinar on Biochemical perspectives	Kamaraj college of engineering and technology	Madurai. 28 - 30.05.2020
22	webinar on “Electron Microscopy: An Essential Tool For Nanomaterials Characterization”	Hindustan College Of Arts And Science (Autonomous)	Coimbatore 29-05-2020
23	Webinar titled “Next-Generation Genomics For Crop Improvement To Address Hunger And Malnutrition During Covid-19”	School of Life Sciences, VISTAS, Chennai.	Chennai, May 21, 2020
24	International Webinar on “Next Generation Sequencing Methodologies & Applications”	Bhaktavatsalam Memorial College For Women	Chennai, 25th May 2020.
25	Webinar on “How to ace online teaching using free tools “	St. Thomas College of Arts and Science	Chennai, 23rd May 2020
26	Webinar on “Medicinal Plants - The Potential Therapeutic Sources for Human Diseases and Disorders”	Ethiraj College For Women (Autonomous) College, Chennai	Chennai, 09.05.2020
27	participated in the “COVID-19 Stress Management Through Yoga”	Nature Science Foundation, Coimbatore, Tamil Nadu, India	Coimbatore, 17th May 2020
28	National level Webinar on “Technological tools to manage the pandemic situations using Biological data and Artificial Intelligence”	Dhanalakshmi sreeneivasan institute of research and technology	Perambalur, 11th May 2020

29	International Webinar on “Covid 19 and Global Challenges ”	Vels institute of science and technology	Chennai on May 27, 2020
30	webinar on “Guidelines for the management of health and hygiene in COVID-19 pandemic”	SRM arts and science college	18 May 2020
31	webinar on “Where are we with vaccine and Treatment for COVID-19”	Prince Shri Venkateshwara Arts and Science College	Chennai, 13.05.2020
32	International Webinar on STEM Cell Research – SARS-Cov-2 (COVID-19)	Vinayaka Mission’s Kirupananda Variyar Engineering College	Salem, 23.05.2020
33	“Taking research forward during the pandemic”	Loyola college	Chennai, 20.05.2020

c. FDP attended

S.No	Name of the FDP	Name of the Sponsoring Agency	Place and Date
1	Two weeks Faculty Development Programme on “Deep Learning and Optimization for Healthcare”	Organized by Electronics and ICT Academy, NIT Patna, Malla Reddy College of Engineering & Technology, Hyderabad, UPES, Dehradun, Uttarakhand, Sri Sankara Arts and Science College, Kanchipuram, SR University, Telangana and BIT Sindri, Dhanbad under the “Scheme of financial assistance for setting up of Electronics and ICT Academies (Phase-II)” by the Ministry of Electronics and Information Technology (MeitY), Government of India	24th February 2025 - 04th March, 2025.
2	7 days National Level Virtual Faculty Development Programme entitled “Effective Pedagogy Tools for Life Sciences”	PG & Research Department of Biochemistry, Theivanai Ammal College for Women (Autonomous), Villupuram .	20th to 28th December, 2023
3	Five days National Level Virtual Faculty Development Programme entitled “Methodology for Advanced Research and Quality Publication in current Scenario ”	Department of Business Administration & IQAC, Theivanai Ammal College for Women (Autonomous), Villupuram	25 th to 31 st October 2023

4	Participated in two week online Capacity Building Programme on “ICT Tools for Teaching and Research”	PDPM Indian Institute of Information technology, Design and Manufacturing, Jabalpur, India.	512.22 -17.12.22
5	Online Faculty Development Programme on “The role of tools in Research” ,	organized by IQAC. Annai Veilankanni’s College for Women	21th September 2021
6	5 days FDP on “Models and tools to advanced electronic teaching and learning program”	organized by IQAC, Department of Sciences, Chennai National Arts and Science College	31.8.21 – 04. 9.21.
7	Development Programme - “Scientific Publications - Preparation of Manuscript”	Department of Biochemistry, Annai Veilankanni’s College for Women	July 14, 2021
8	Online Faculty Refresher Programme on “Effective Classroom” .	organized by IQAC, Sri K.C.S Kasi Nadar College of Arts and science, Chenna.	9th July 2021.
9	Online Faculty Development Programme on “IPR and its types”	Shri shankarlal sundarbai shasun jain college for women, Chennai	27 th May 2021.
10	Online Faculty Development Programme on Promoting Research and Innovation in HEI - Teacher’s Role	IQAC & the Department of Computer Science – Shift-I, Sri Kanyaka Parameshwari arts and Science College for women, Chennai,	27th and 28th April 2021.
11	One-day Faculty Development Programme on “Formulation of Research Problem and Research Funding”	IQAC, Anwarul Uloom College of Business Management, Telangana	04 th December 2020.
12	National Level Faculty Development Programme on “Redefining The Role Of Teachers”	Department of Computer Applications under the guidance of IQAC	13th December 2020.
13	One-week Faculty Development Programme on “Stress and Anger Management”	Jaipur Engineering College and Research centre, Jaipur.	15.12.2020 to 19.12.2020
14	Faculty Enrichment Program on “My life My pride My career”	Patrician college of arts and science, Chennai	18 th may 2020
15	Faculty Development Program “Recent Trends and Strategies In Applied Life Sciences”	Department of Biotechnology, Prathyusha Engineering College,	19th to 25th June 2020

16	Faculty Enrichment Program on "Transcending From Fixed To Growth Mindset in Turbulent Times"	Sri Sankara Arts and Science College (Autonomous)	July 4, 2020.
17	Faculty Development Programme on "Best Practices in Research"	IQAC of Sree Narayana College, Nattika, Thrissur, Kerala	02/11/2020, 04.11.2020 & 07.11.2020.
18	Faculty Development Program on "Stress Management"	Department of Computer Science, Sree Narayana Guru College, Coimbatore	27th November 2020
19	Faculty Development Programme on "Recent trends in Molecular Biotechnology"	Department of Biochemistry, Ethiraj College For Women (Autonomous), Chennai	June 3rd & 4th, 2020
20	Two Day International FDP on „High impact Teaching Skills and Mind Mapping for Better Teaching“	Department of Commerce, Manipal Academy of Higher Education, Manipal.	19th and 20th August 2020
21	Faculty Enrichment Program on "Work life balance through life style changes"	AMET, Academy of maritime education and training, Chennai	27 th June 2020
22	Faculty Enrichment Program "Project proposal for funding agencies(UGC STRIDE & ICSSR IMPRESS): preparation and submission protocol"	Patrician college of arts and science, Chennai,	16.05.2020 and 17.05.2020

d) Seminars/ Conferences Presented Paper or Poster:

S. No.	Program Attended	Place	Presented Poster/Paper	Period
1	One day International Conference on Advances in Medical Science and Molecular Biology (AMSMB-20).	PG & Research Department of Microbiology, Idhaya College for Women, Kumbakonam.	Paper	27th January, 2020.
2	International Conference on Integrative nature of life science and its challenges in Research	Department of Biochemistry, Theivanai Ammal College for Women (Autonomous), Villupuram	Paper	6th September, 2019
3	International conference on innovative Research in Life science by Life science	Department of Biochemistry, Dhanalakshmi Srinivasan College of Arts and Science for women, Perambalur,	Paper	06 th March, 2017.
4	Biometabolites with Bioactivity (NCUBB"19)	Department of Biotechnology, Bishop Heber college, Trichy.	Paper	25 th Feb 2019.

9	National Seminar cum Conference on Frontiers Research in Applied Biology and Environmental Science	King Nandhivarman College of Arts and Science, Thellar,.	Paper	30 th January, 2016
10	National conference in Neoperspectives on chemical, Biochemical & Microbial World (NCBMW- 14 th)	Department of Chemistry, Biochemistry& Microbiology, Akilandeswari women's college, Wandavasi,	Paper	10&11 th October 2014.

16. Participated as Resource Person:

S.No.	Program	Venue	Period

17. Workshop & Training Programmes:

S.No.	Programe	Venue	Period
1	Workshop on Operationalisation of community radio station	Sri Sankara Arts and Science College, Kanchipuram	18-24 th November 2018
2	National Workshop on Statistical Methods In Biological Research (SMBR-2016)	StJoseph's college of Arts And Science (Autonomous), Cuddalore	24 th February 2016
3	State Level Workshop on Techniques In Animal Experiments (EXPZ BIO-14)	Adhiparasakthi college of Arts and Science (Autonomous), Kalavai	27 th 2014.
4	Workshop on Molecular Biology Technigues and Bioinformatics Tools and Softwares, 2009	D.K.M College for Women, Vellore	9 th and 10 th January 2006.
5	National workshop on Antidiabetic Medicinal Herbs: Screening and Biotechnology	Annamalai University, Annamalainagar	27 th and 28 th March 2009
6	One day workshop on instrumental method of analysis	Vellore institute of technology, Vellore	7 th January 2006.

18. Projects Completed:

S.No.	Name of the Projects	Period	Grant Received/Status

19. Any other Details:

BOOK PUBLISHED

“BIOMOLUCLES” Laboratory Manual. [ISBN 978-620-5-49646-6](https://doi.org/10.1007/978-620-5-49646-6). Publisher : LAP LAMBERT Academic Publishing (August 31, 2022).

M. Phil., Supervisor - University of Madras

ADDITIONAL QUALIFICATIONS:

B.Ed., in Physical Science – May“ 2014, Tamilnadu Teachers Education university, Chennai, Tamilnadu.

Panted Webinar (Online Mode)

- National Level Webinar on "Intellectual Property Rights in India" organised by the IPR Cell - Sree Narayana Guru College, Coimbatore on 2nd November 2020.
- Webinar on “Patenting in Biotechnology: Indian Perspectives” Organized by Department of Biotechnology, Sree Narayana Guru College, Coimbatore on 21st November 2020.

FIELD VISITS ORGANIZED

- Organized field visit for III B. Sc Biochemistry students to Periyar Science Park, Chennai on 23th Feb 2018.
- Organized field visit for I and II M. Sc Biochemistry students to Sophisticated Analytical Instrument Facility (SIAF), Indian Institute of Technology, Chennai on 20th Sep 2019.
- Organized field visit for III B. Sc Biochemistry students to Perunthalaivar Kamaraj Krishi Vigyan Kendra, Kurumbapt, Puducherry on 20th Dec 2019.