



**Department of
Biochemistry
Government Arts and
Science College-
Kulathoor,
Neyyattinkara-695 506**

Name: Dr. ARUN U.



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Holds	The responsibility as the Head of the Department
Present position	Assistant Professor of Biochemistry and HOD
Awards	NIL
Qualifications	M Sc. Biochemistry (School of BioSciences, Mahatma Gandhi University- Kottayam), CSIR-UGC NET. PhD in Biochemistry from the University of Kerala.
Experience	15 Years
Area of Interest	Cell Biology, Molecular Biology, Bioenergetics, Metabolism
Thrust area of Research	Synthesis of Nanomaterials, Nanobiology, Cancer Biology, Microarray
Examinership	<p>External examiner for conducting B Sc. Biochemistry and Industrial Microbiology (Biochemistry - Core) practical examinations, University of Kerala.</p> <p>External examiner for conducting B Sc. Biochemistry practical examinations, University of Kerala.</p> <p>External examiner for conducting Botany and</p>

	<p>Biotechnology (Biochemistry - Auxiliary) practical examinations, University of Kerala.</p> <p>External examiner for the valuation of answer scripts of PG entrance in Biochemistry subject at CSS, University of Kerala.</p> <p>Question paper setter for autonomous colleges and autonomous bodies.</p>
Academic Responsibilities Undertaken	<p>Worked as a member of the syllabus revision committee constituted for revising the syllabus for B Sc. Biochemistry and Industrial Microbiology in 2009.</p> <p>Worked as a member of the Board of Studies in Microbiology, University of Kerala from 2009-2012</p> <p>Chairman, Board of Examiners in B Sc. Biochemistry and Industrial Microbiology, (Biochemistry-Core) Kerala University.</p> <p>Chairman, Board of Examiners in B Sc. Botany and Biotechnology, (Biochemistry-Auxiliary) Kerala University.</p> <p>Worked as a member of the syllabus revision committee constituted for revision of the syllabus for B Sc. Biochemistry and Industrial Microbiology in 2019</p> <p>Member Board of Studies in Biochemistry, University of Kerala from 2023</p>
Major Research Project	NIL
Minor Projects	NIL

Recent achievements in Research	Awarded Ph D degree for the thesis entitled “ Design of Nanoscale Metal Organic Frameworks and Their Applications in Cancer Cell Destruction ” from the University of Kerala.
Responsibilities undertaken	College council member, Purchase committee convener, Career guidance cell convener, Environmental club convener, IQAC member, Purchase committee member, Website Committee member, Project implementation committee member, IQAC Convener
Seminars Organized	Three Day National Seminar sponsored by UGC on “ Stem Cells in regenerative Medicine and the Emerging Concept of Cancer Stem Cells ” from 22-03-2010 to 24-03-2010 at Government College for Women, Thiruvananthapuram-14
Workshops/Seminars attended	<p><u>Workshops</u></p> <p>(a) National Symposium and Workshop on DNA at the School of Biosciences, MG University Kottayam on 25/09/2003</p> <p>(b) Three day seminar cum workshop on Animal Cell Culture protocols sponsored by the M G University at the School of Medical Education, MG University, Kottayam from 03-11-2003 to 05-11-2003.</p> <p>(c) 6th INDO-US Flow Cytometry Wet Workshop on Monitoring of Stem Cell Phenotype, Proliferation and Apoptosis from Feb 5-12, 2006 at SCTIMST, Trivandrum</p> <p>(d) 23 Days Training Programme in Animal Cell Culture at the National Centre for Cell Science (NCCS), DBT, Pune from 16-12-2006 to 08-01-2007.</p> <p>(e) Workshop on Designing Undergraduate Courses in Biochemistry from 01-07-2009 to 04-07-2009 at the Department of Biochemistry, University of Kerala,</p>

	<p>Kariavattom, Thiruvananthapuram.</p> <p>(f) Two Day Workshop on Bioinformatics from 16-01-2013 to 17-01-2013 at Government College for Women, Thiruvananthapuram.</p> <p>(g) Workshops on the recommendations of Prof. B. Hridayakumari Committee Report on 25-03-2014 at the Department of Biochemistry, University of Kerala, Kariavattom, Thiruvananthapuram.</p> <p>(h) International workshop on ‘Human Chromosomes’ conducted by Department of Biochemistry, University College Thiruvananthapuram from 09-01-2018 to 10-01-2018.</p> <p>(i) International Seminar Cum Workshop on Diagnostic Cytogenetics organized by the Department of Zoology, Government College for Women, Thiruvananthapuram-14 from 04-09-2018 to 05-09-2018.</p> <p>(j) National Workshop on Molecular Techniques in Microbial Identification conducted by Departments of Botany and Biochemistry & Microbiology, Govt. College for Women- Thiruvananthapuram from 20/11/2019 to 21/11/2019</p> <p><u>Seminars</u></p> <p>(a) UGC sponsored State Level Seminar on “New Risk Factors of Coronary Artery Disease” from 16-02-2012 to 17-02-2012 held at the Department of Biochemistry, N.S.S College, Pandalam.</p> <p>(b) Seminar on Recent Advances in Biological Sciences from 22-02-2012 to 23-02-2012 at Govt. College for Women- Thiruvananthapuram-14.</p>
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	<p>(c) National Seminar on Recent Trends in Optoelectronics from 02-07-2012 to 03-07-2012 at the Department of Optoelectronics, University of Kerala, Kariavattom, Thiruvananthapuram.</p> <p>(d) International Seminar on Recent Biochemical Approaches in Therapeutics(RBAT-2013) from 09-01-2013 to 11-01-2013 at the Department of Biochemistry, University of Kerala, Kariavattom, Thiruvananthapuram.</p> <p>(e) International Conference on Nano Biomaterials NANO BIO 2014 from 04-07-2014 to 06-07-2014 at the School of Chemical Sciences, M G University, Kottayam.</p> <p>(f) National Seminar on Industrial Microbiology-Trends and Perspectives from 13-10-2014 to 14-10-2014 at Government College for Women, Thiruvananthapuram-14.</p> <p>(g) National Seminar on Recent Approaches in Biochemical Research (RABR-2014) from 28-10-2014 to 29-10-2014 at the Department of Biochemistry, University of Kerala, Kariavattom, Thiruvananthapuram.</p> <p>(h) UGC sponsored National seminar on “Modern Approaches for the Management of Diabetes Mellitus and the Ethical Issues Associated with Drug Trials and Banned Drugs” from 11-02-2015 to 13-02-2015 conducted by the Department of Biochemistry, N.S.S College, Pandalam.</p> <p>(i) International Seminar on Recent Biochemical Approaches in Therapeutics RBAT-II(2015) from 09-12-2015 to 11-12-2015 at the</p>
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	<p>Department of Biochemistry, University of Kerala, Kariavattom, Thiruvananthapuram.</p> <p>(j) National Seminar on “Cancer Biology: New Frontiers and Avenues” conducted by Department of Biochemistry, University College Thiruvananthapuram on 16-12-2016.</p> <p>(k) Director of Collegiate Education sponsored three day National Seminar on “Contemporary Malayalam Story-Experience, Expressions and Sensibility” conducted by the Department of Malayalam, Government College for Women, Thiruvananthapuram from 08-11-2017 to 10-11-2017.</p> <p>(l) Director of Collegiate Education sponsored three day seminar on “Recent Trends in Therapeutic Approaches for Diabetes Management” conducted by the Department of Biochemistry and Microbiology, Government College for Women, Thiruvananthapuram from 10-10-2018 to 12-10-2018.</p> <p>(m) Director of Collegiate Education sponsored three day International seminar on “Development Communication and Endo-Nutrition: The Current Drift” conducted by the Department of Home Science, Government College for Women, Thiruvananthapuram from 13-11-2018 to 15-11-2018.</p> <p>(n) One day seminar on NAAC-IQAC Guidelines, conducted by the IQAC Govt. College for Women- Thiruvananthapuram</p>
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	<p>(o) Director of Collegiate Education sponsored three day National seminar on “Biomedical Research: Changing Paradigms Across Time” conducted by the Department of Biochemistry, Government College, Kariavattom from 30-01-2019 to 01-02-2019.</p> <p>(p) National Seminar on “Recent Biochemical Approaches in Therapeutics” RBAT-V (2019) conducted by Department of Biochemistry, University of Kerala from 23/01/2019 to 25/01/2019.</p> <p>(q) National Seminar cum Workshop on Aquaponics conducted by the Department of Zoology, Government College for Women, Thiruvananthapuram from 5/11/2019 to 06/11/2019</p> <p>(r) Conference on Alternatives to Animal Experiments in Translational Research from December 8-9 at CLIF, University of Kerala, Kariavattom.</p>
Refresher courses attended	<p>(a) UGC sponsored refresher course in Life Sciences (Interdisciplinary) conducted by the UGC-ASC, University of Kerala, Kariavattom from 05-07-2012 to 26-07-2012.</p> <p>(b) UGC sponsored Special Summer School (Multidisciplinary Refresher Course) conducted by the UGC-HRDC, University of Kerala, Kariavattom from 11-07-2017 to 31-07-2017.</p> <p>(c) UGC sponsored refresher course in Environmental Sciences conducted by the UGC-HRDC, University of Kerala, Kariavattom from 10-02-2021 to 23-02-2021.</p>

Orientation courses attended	UGC sponsored orientation programme(IT oriented) conducted by the UGC-ASC, University of Kerala, Kariavattom from 31-10-2012 to 27-11-2012.
Short-term courses attended	<p>UGC sponsored short-term course in Research Methodology conducted by the UGC-HRDC, University of Kerala, Kariavattom from 23/11/2018 to 29/11/2018.</p> <p>UGC sponsored short-term course in Disaster Management conducted by the UGC-HRDC, University of Kerala, Kariavattom from 22/02/2022 to 28/02/2022.</p>
Papers presented (International)	<p>(a) Production of ECM components by endothelial cells differentiated from umbilical cord mesenchymal stem cells when cultured on biodegradable polymeric scaffolds with implications towards vascular tissue engineering-Conference organized by International Society for Stem Cell Research, 5th ISSCR Annual Meeting, June 17-June 20, 2007 at Cairns, Australia.</p> <p>(b) International Conference on Advanced Nanostructures(ICAN-2018) organized by the Post Graduate and Research Department of Physics, Catholicate College, Pathanamthitta from 12-03-2018 to 14-03-2018.</p> <p>(c) International Conference on Optoelectronic and Nanomaterials for Advanced Technology (ICONMAT-2019) conducted by Inter University Centre for Nanomaterials and Devices (IUCND) and Centre for Excellence in Advanced Materials(CAM) of Cochin University of Science and Technology (CUSAT) from 03-01-2019 to 05-01-2019.</p> <p>(d) International Conference on Nanomedicine</p>

	(ICON-2019) conducted by School of Chemistry and School of Biotechnology, Madurai Kamaraj University from 25/02/2019 to 26/02/2019.
Papers presented (National)	(a) Synthesis and Characterization of gallic acid reduced gold nanoparticles and its cytotoxicity in A375 cells-Conference RBAT-III(15-17 February 2017) organized by the Department of Biochemistry, University of Kerala, Kariavattom.
Membership(s) in academic bodies	Life member, Indian Science Congress Association
Research publications	<p>Total Numbers-4</p> <p>(a) A biodegradable and biocompatible PVA-citric acid polyester with potential applications as matrix for vascular tissue engineering. J Mater Sci: Mater Med (2009) DOI 10.1007/s10856-008-3599-7</p> <p>(b) Evaluation of Apoptotic Potential of ZIF-8 Nanoparticles. AIP Conference Proceedings 2082,080001(2019): https://doi.org/10.1063/1.5093884</p> <p>(c) Incorporation of phytochemicals into electrospun scaffolds for wound-healing applications in vitro and in vivo. Journal of Bioactive and Compatible Polymers (2020): DOI: 10.1177/0883911520939989</p> <p>(d) Mesenchymal Stem Cells Seeded Decellularized Tendon Scaffold for Tissue Engineering Current Stem Cell Research & Therapy(2020) DOI: 10.2174/1574888X15666200723123901</p>
Extracurricular	Reading, Sports and Sustainable Strategies in Agriculture

activities	
Countries Visited	Singapore, Australia