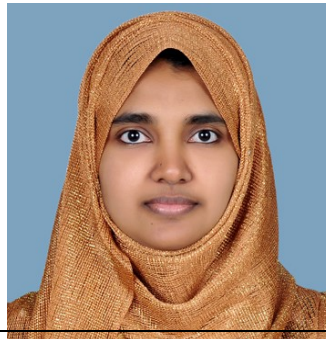


CURRICULUM VITAE

Dr. SUMAYYA. A. S

Assistant Professor,
Department of Biochemistry
T. K. M. College of Arts and Science,
Kollam – 691005, Kerala, India.
Mob: 9562933109
Email:sumayyabiochem@tkmcas.ac.in



ACADEMIC QUALIFICATIONS

Sl. No	Course	Institution	Period
1	Ph. D. in Biochemistry	University of Kerala, Kariavattom Campus, Trivandrum	2013 - 2018
2	MSc Biochemistry	University of Kerala, Kariavattom Campus, Trivandrum	2008 – 2010
3	BSc Biochemistry	NSS College, Nilamel, University of Kerala	2005 -2008
4	Plus Two	CPHSS, Kuttikkadu, Kadakkal	2003 – 2005
5	S.S.L.C	GOVT.VHSS, Kadakkal	2000 – 2003

TEACHING EXPERIENCE - (7 Academic years)

- **22 December 2021- till date.** Assistant Professor, Department of Biochemistry, T.K.M. College of Arts and Science, Kollam – 5. University of Kerala. India
- **September 2021 – December 2021.** Guest lecturer, Department of Biochemistry, T.K.M. College of Arts and Science, Kollam – 5. University of Kerala. India.
- **January 2021 – March 2021.** Guest lecturer, Department of Biochemistry, T.K.M. College of Arts and Science, Kollam – 5. University of Kerala. India.
- **August 2019 – March 2020.** Guest lecturer, Department of Biochemistry, T.K.M. College of Arts and Science, Kollam – 5. University of Kerala. India.

- **August 2018 – March 2019.** Guest lecturer, Department of Biochemistry, T.K.M. College of Arts and Science, Kollam – 5. University of Kerala. India.
- **February 2011 – September 2012.** Lecturer in Biochemistry, KVVS College of science and technology, Kaithapparambu, University of Kerala. India

Subjects Taught at Postgraduate/ Undergraduate Levels

- | | |
|----------------------------|----------------------------------|
| ❖ Biochemistry | ❖ Clinical Biochemistry |
| ❖ Physiology | ❖ Cell Biology |
| ❖ Biotechnology | ❖ Analytical Biochemistry |
| ❖ Molecular Biology | ❖ Metabolism |
| ❖ Immunology | ❖ Plant Biochemistry |

LIST OF PRESENTATIONS

- Presented a poster entitled “*In vivo* biocompatibility study of marine biopolymer based composite hydrogel for tissue engineering applications” in International Seminar on Recent Biochemical Approaches in Therapeutics (RBAT-IV), January 23-25, 2018, conducted by Department of Biochemistry, University of Kerala, Kariavattom (**Best poster presentation award**).
- Presented a paper entitled “Characterization and *in vitro* biocompatibility study of marine biopolymer composite hydrogel in tissue engineering applications” in International Seminar on Recent Biochemical Approaches in Therapeutics (RBAT-II), December 9-11, 2015, conducted by Department of Biochemistry, University of Kerala, Kariavattom.
- Presented a paper entitled “Biodegradability and cytotoxicity evaluations of hybrid HA/chitosan-alginate scaffold containing fucoidan from marine algae for tissue engineering applications. An *in vitro* study” in 9th National Seminar on medicinal plants-2016, conducted by Department of Ayurveda medical Education, Govt. Ayurveda College Pharmacognosy unit, Govt. of Kerala, Thiruvananthapuram on 14th – 15th January 2016.

- Presented a poster entitled “Maturation and Differentiation of chondrocytes on marine biopolymer based hydrogel scaffold for cartilage tissue engineering” in International Seminar on Recent Biochemical Approaches in Therapeutics (RBAT-III), February 15-17, 2017, conducted by Department of Biochemistry, University of Kerala, Kariavattom.

PROJECTS SUPERVISED

- Fabrication of biopolymer compositematerial as a scaffold for bone regeneration
- Synthesis of biopolymer based hydrogel scaffold as bone substitute for tissue engineering
- A comparative study on nutritional quality of different nuts as revealed by its biochemical analysis
- Comparative phytochemical analysis of seed, sprout and microgreen extracts from *Vigna radiate*.

LIST OF PUBLICATIONS

1. **Sumayya A. S.& Muraleedhara Kurup G.** (2024) [T.K.M. College of Arts and Science & Kariavattom Campus, University of Kerala]. *In vitro* chondrogenic potential of marine biocomposite hydrogel construct for cartilage tissue engineering, Journal of Biomaterials Science, Polymer Edition, 35:18, 2845-2866, DOI: 10.1080/09205063.2024.2391223
2. **Sumayya A S & Muraleedhara Kurup G** (2021) [T.K.M. College of Arts and Science& Kariavattom Campus, University of Kerala]. *In vitro* anti-inflammatory potential of marinemacromolecules cross-linked bio-compositesccaffold on LPS stimulated RAW 264.7 macrophagecells for cartilage tissue engineering applications. Journal of Biomaterials Science, Polymer Edition DOI: 10.1080/09205063.2021.1899590.
3. **Sumayya A S & Muraleedhara Kurup G** (2017)[Kariavattom Campus, University of Kerala]. Marine macromolecules cross-linked hydrogel scaffolds as

- physiochemically and biologically favorable entities for tissue engineering applications. *Journal of Biomaterials Science, Polymer Edition*, 28(9), 807-825.
4. **Sumayya A S & Muraleedhara Kurup G** (2017)[Kariavattom Campus, University of Kerala]. Biocompatibility of subcutaneously implanted marine macromolecules crosslinked bio-composite scaffold for cartilage tissue engineering applications. *Journal of Biomaterials Science, Polymer Edition*, 29(3), 257-276.
 5. Mohsin Sulaiman, R Mahadevan, **A S Sumayya**, G Muraleedhara Kurup (2016). Bifunctional effect of fucoidan from *Padina tetrastomatica* against human pathogenic microbes and free radicals. *Journal of Medicinal Herbs and Ethnomedicine*, 2(2): 1-10.
 6. Mohsin Sulaiman, R Mahadevan, **A S Sumayya**, G Muraleedhara Kurup (2015). Protective effect of sulfated polysaccharide from *Padina tetrastomatica* (Dictyotaceae) on thromboembolism. *Journal of Ecobiotechnology*, 7(1): 10-16.

SEMINAR PARTICIPATIONS

- Participated in the Indo – US Seminar on “Recent Biochemical Approaches in Therapeutics (RBAT-IX), February 01-03, 2023, organized by Department of Biochemistry, University of Kerala, Kariavattom and College of Nursing, University of Wisconsin, Milwaukee.
- Participated in the National Seminar on “Oxidative Stress in Health and Diseases” organized by department of Biochemistry, University of Kerala, Thiruvananthapuram, during 18-20 March 2010.
- Participated National Seminar on “Marine Biodiversity and Bioprospecting for Sustainable Livelihood” organized by department of Biochemistry, Cochin University of Science and Technology, during 21 and 22 March 2016.

FIP: Participated in the UGC Sponsored Online Faculty Induction Programme organized by the UGC Human Resource Development Centre, Aligarh Muslim University, Aligarh, from 08/09/2023 to 13/10/2023, and successfully completed it with Grade A+.

Short term course: Participated in the UGC Sponsored Short-Term Course organized by MMTTC, Ranchi University from 20/03/2025 to 26/03/2025.

FDP:

- Participated in the 7day national level online faculty development program on outcome based education organized by St. James College of Nursing and St.James College of Pharmaceutical sciences, Chalakudy in association with The Kerala State Higher Education Council from 08 March to 15 March 2023.
- Participated in the Faculty Development Program on Re-energizing Higher Education, organized by the Teaching Learning Centre, T.K.M. College of Arts and Science, Kollam, in collaboration with KHEC, on 04/07/2023.
- Participated in the 7-Day National Level Online Faculty Development Program on ChatGPT & AI Tools, organized by Marian College Kuttikkanam (Autonomous) in association with The Kerala State Higher Education Council, on 14/06/2023
- Participated in the One Week National Level Online Faculty Development Program on Outcome Based Education and Application of Generative AI in Teaching and Research, organized by the Internal Quality Assurance Cell (IQAC) of Government College Kottayam, in association with The Kerala State Higher Education Council (KSHEC), from 06/03/2024.

SUMAYYA A S