



CURRICULUM VITAE (CV)

Dr. Arun Kumar Karayi

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Google Scholar Profile: <https://scholar.google.com/citations?user=hNkr3ecAAAJ&hl=en>

Personal Website: <https://sites.google.com/view/arunkumarkarayi/home>

Professional Summary

Dedicated and highly skilled life science researcher with over 10 years of experience in biochemistry and molecular biology. Strong background in real-time PCR, western blot, immunohistochemistry, immunocytochemistry, cell culture, and bacterial culture techniques. Passionate about advancing scientific knowledge and contributing to innovative research projects.

Education

Ph.D. in Biochemistry

Central University of Kerala, Kasaragod, Kerala, India

July, 2014 – May, 2024

Thesis: "Human skin fibrosis in lymphoedema: cellular and molecular changes with respect to major fibrillar collagens"

Advisor: Prof. (Dr.) Rajendra Pilankatta

M.Sc. in Animal Science (Zoology)

Central University of Kerala, Kasaragod, Kerala, India

June, 2010 – May, 2012

Dissertation: "SDS-PAGE analysis of human salivary proteome induced by beverages in contrast to oral cancer patients"

Advisor: Dr. Thamil Mani Sivanandam

B.Sc. in Zoology

Govt. Brennen college, Kannur university, Kerala, India

June, 2007 – March, 2010

Research Experience

Project assistant

Cochin University of Science and Technology (CUSAT), National Centre for Aquatic Animal Health (NCAAH), Ernakulam

August, 2013 – February, 2014

- Lead and conduct research on the project: "Selection and identification of immunocompetent early life stages of the giant freshwater prawn *Macrobrachium rosenbergii* based on differential mRNA expression"
- Utilized aquaculture, PCR and cloning methodologies and techniques.

Publications

1. Karayi, A.K., Basavaraj, V., Narahari, S.R., Aggithaya, M.G., Ryan, T.J. and Pilankatta, R. (2020), Human skin fibrosis: up-regulation of collagen type III gene transcription in the fibrotic skin nodules of lower limb lymphoedema. Trop Med Int Health, 25: 319-327. doi:10.1111/tmi.13359

Presentations

1. **Oral Presentation**, "Human Lymphatic Filariasis: upregulation of collagen type-III in the skin of grade-3 lymphoedema patients," International seminar on Recent Biochemical Approaches in Therapeutics, 23rd - 25th January, 2018.
2. **Poster presentation**, "Limb nodules of grade-3 lymphoedema patients shows upregulation of Collagen type-III gene transcripts along with other human skin specific collagens", National conference on genetics of human diseases, November 3rd – 4th, 2016.

Grants and Fellowships

Junior research fellowship (JRF)/Senior research fellowship (SRF)

1. Council for scientific and industrial research (CSIR)-University Grand Commission (UGC), 2017
-87th rank in life science subject at national level
2. Kerala state council for science technology and environment (KSCSTE), 2014

Awards and Honors

1. **Lectureship, 2016**
 - 60th rank in life science subject at national level
2. **Most cited article, 2020**
 - Recognition from the publishing company Wiley: “The most cited article in Tropical medicine and international health in the year 2020”

Skills

- **Technical Skills:** Cell culture, bacterial culture, COVID-19 testing, real-time PCR, western blot, immunohistochemistry, and immunocytochemistry.
- **Analytical Skills:** Data analysis using GraphPad prism software and MS office.
- **Communication Skills:** Good at scientific writing and making presentations in English.
- **Project Management:** Good at managing research projects and leading teams.

Teaching Experience

Guest lecturer

Govt. college Kasaragod, Department of Zoology, Kasaragod, Kerala, India

July, 2023 – March, 2024

- Assisted in teaching BSc. Zoology
- Graded assignments and exams.
- Held office hours to support students.

References

1. **Dr. Rajendra Pilankatta**, [Professor]
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Central University of Kerala
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2. **Dr. V B Sameer Kumar**, [Professor]
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3. **Dr. Thejaswini Venkatesh**, [Assistant Professor]
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