

# ARJUN K B

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## RESEARCH EXPERIENCE

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**Government Arts and Science College, Kozhijampara**

Kerala, India

Bachelor's thesis

*December 2022- April*

*2022*

Isolation and Molecular Identification of Citrus Disease-Causing Bacteria *Kosakonia cowanii* And Its Biological Control Using Different Botanicals

- Samples were collected from infected citrus trees from surrounding area.
- Performed culturing of bacteria in YDCA and completed preliminary studies for identification.
- Identification of bacteria using 16s rRNA sequencing method.
- Infectivity of bacteria is tested by Detached Leaf Test.
- The antibacterial activity of botanical extracts were tested using Agar well diffusion method.
- Phytochemical screening of effective botanical extract was done.
- GC-MS analysis of extract was done to identify the inhibitory component.
- Identified a novel strain *Kosakonia cowanii strain XI*
- Maintained a laboratory notebook to record daily activities, experiments, and observations.

## EDUCATION

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Govt. arts and science college, Kozhijampara, under University of Calicut

2022

**BSc. Microbiology**

*Percentage- 80.42%*

Govt. Higher Secondary School, Tuvvur

2019

**Higher secondary**

*Percentage- 92.80%*

Govt. Higher Secondary School, Tuvvur

2017

**Matriculation**

*Percentage- 89.60%*

## AREA OF EXPERTISE

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- Superlative piece of skill in all basic microbiological techniques • Good Manufacturing Practices (GMP) • Analytical • Method validation • Biochemical analysis • Investigative testing • Agarose Gel Electrophoresis • Microbial Staining techniques • Microbial culture maintenance and stocking • PCR • DNA & RNA isolation • Proficient in Microsoft Office Windows and Mac OS • Bioinformatics • Culture Handling • Media Preparation and growth promotion test • Strong written and verbal communication skills

## NOTABLE PARTICIPATION

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- Actively participated in the DBT Sponsored National level hands on training on "IMMUNOTECHNIQUES," held from February 25th, 2022, to February 26th, 2022, at Nehru Arts and Science College, Coimbatore. *February 2022*
- Attended a webinar on "Cancer: The Past, Present, and Future," organised by the Department of Microbiology at Pazhassiraja College, Pulpally, Wayanad. *September 2021*

## LANGUAGES

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- Malayalam - Native & Bilingual Proficiency
- English - Professional Working Proficiency
- Hindi - Working Proficiency
- Tamil - Working Proficiency

## REFERENCE

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Dr. Denoj Sebastian  
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