

# Quorum Sensing Lab

## Key Research Areas:

- Quorum Sensing and Biofilm
- Nano- Therapeutics
- Nano-biosensors and Diagnosis
- Vaginal and Urinary Microbiome
- Drug Repurposing



### Dental Caries

- *S. mutans*: 1, 3 - di m-Tolyl Urea, Trans cinnamaldehyde, Baicalein, Baicalin



### Cholera

*V. cholerae*: Pyrazine Dicarboxylic acid, 2 Methyl 4 vinyl phenol

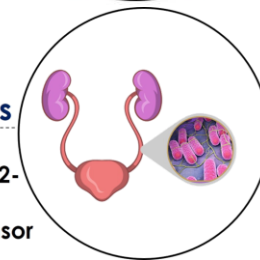
### Skin and Soft Tissue Infections

*S. aureus*: Bumetanide, 5-nitro-2-(3-phenylpropoxy)pyridine, (Z)-(5-((4-oxo-2-thioxothiazolidin-5-ylidene)methyl)furan-2-yl)methylacetate



### Urinary Tract Infections

UPEC: Fructose Furoic Acid, Functional Metal oxide nanoparticles ; *S. aureus*: 2-Methylamino methyl phenol  
Diagnosis: AHL detecting Nano-biosensor



Prof. Adline Princy Solomon  
Associate Dean – Research  
PI – Quorum Sensing Lab  
School of Chemical and Biotechnology  
SASTRA Deemed University, Thanjavur  
Phone: +91-9486910054  
Email: [adlineprinzy@sastra.ac.in](mailto:adlineprinzy@sastra.ac.in)  
 @QSL\_SASTRA

Visit QSL website

