

## HALOPHILIC BACTERIA

# DR. R. BALAJI

**DEPARTMENT OF BIOTECHNOLOGY** 

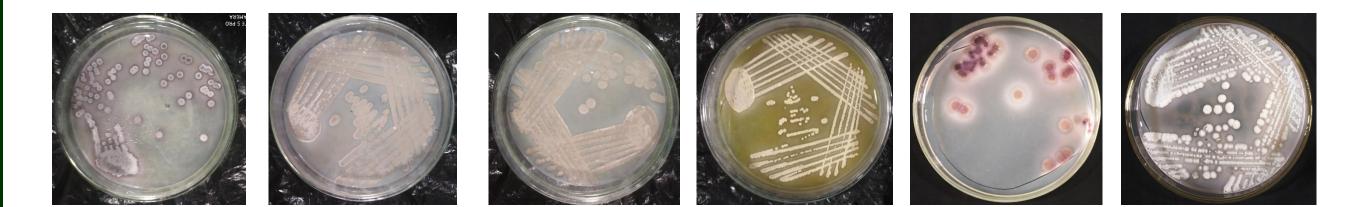
### **SALIENT OUTCOME OF THE PROPOSED RESEARCH**





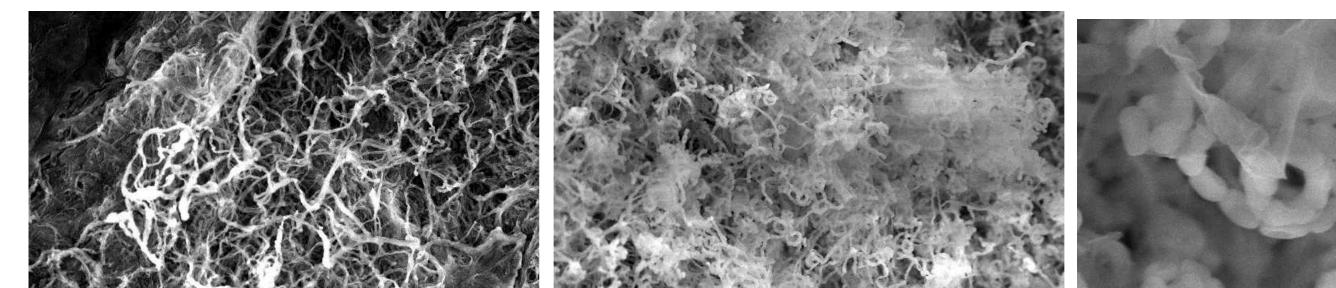




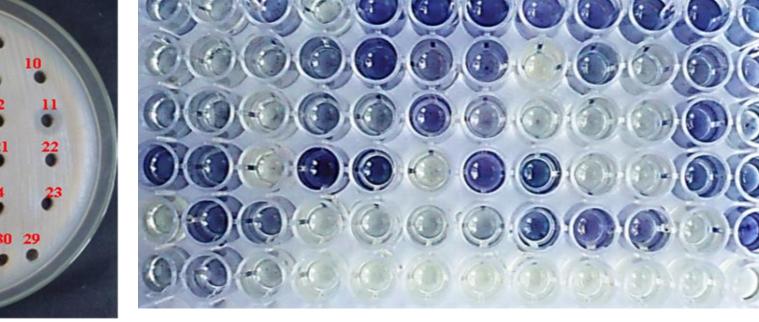




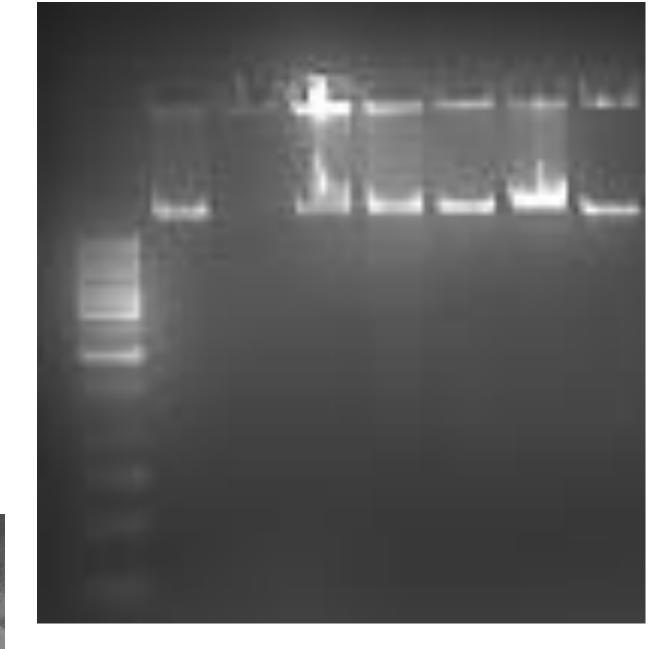
#### **ISOLATED HALOPHILIC CULTURES**

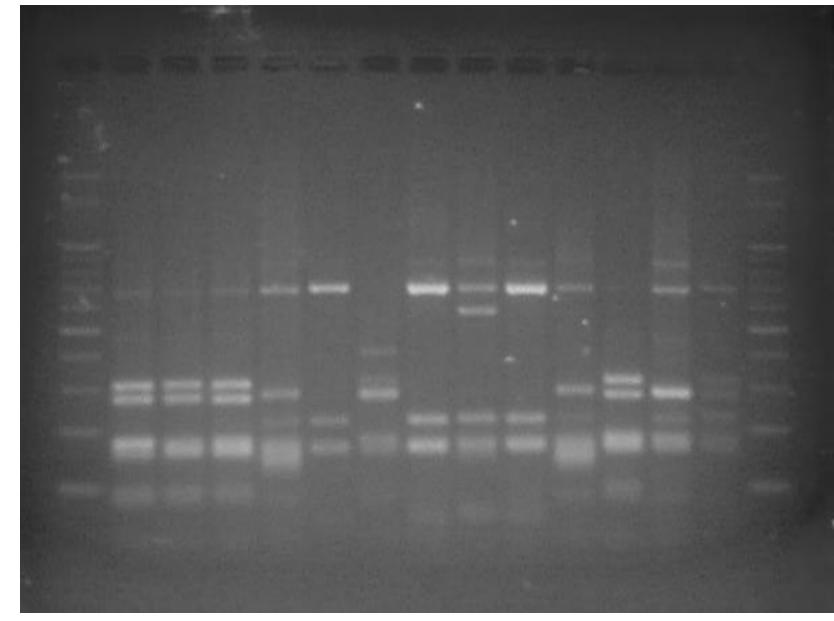




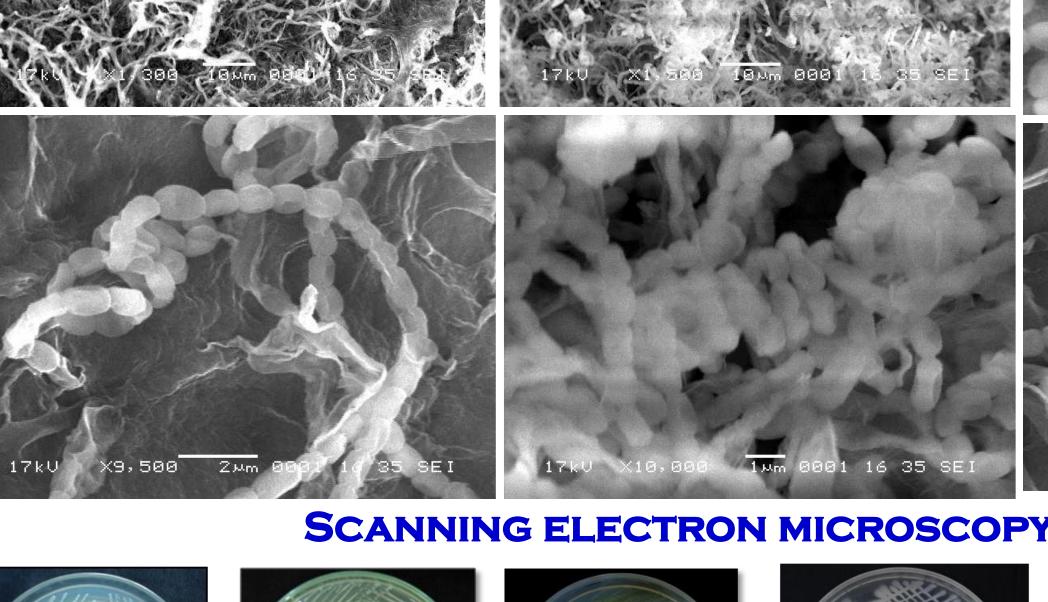


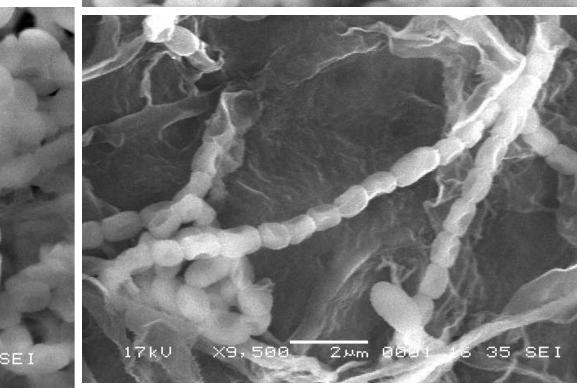
#### **ANTIMICROBIAL ACTIVITY OF THE CRUDE EXTRACTS OF** HALOTOLERANT ACTINOMYCETES BY WELL DIFFUSION ASSAY





#### **ISOLATION OF GENOMIC DNA & AMPLIFICATION FROM HALOPHILIC** ISOLATES



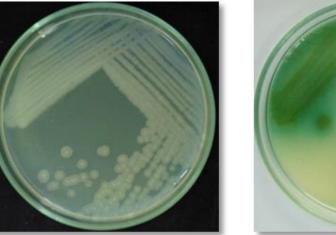


#### SCANNING ELECTRON MICROSCOPY (SEM)





MRSA



Bacillus cereus Pseudomonas aeruginosa Salmonella typhi

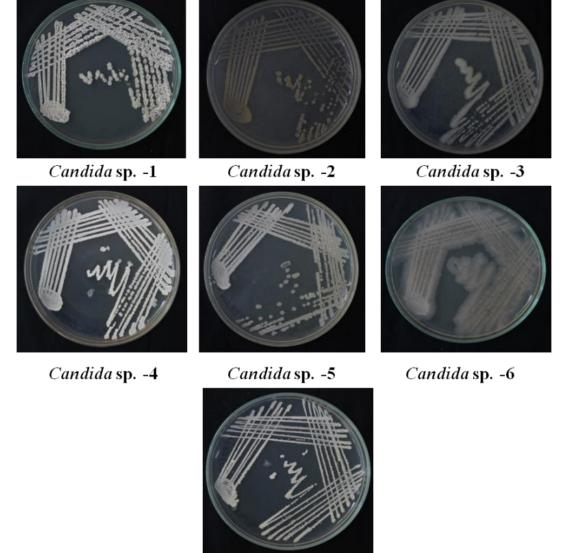
VRSA





Micrococcus luteus





STREDT P	Resources 🗹 How To 🗹	Sign in to NC
ucleotide	le Nucleotide 🗸	Search
	Advanced	He
U	COVID-19 Information    Public health information (CDC) Research information (NIH) SARS-CoV-2 data (NCBI) Prevention and	d treatment information (HHS)   Español
ıBank <del>-</del>		Send to: - Change region shown
repto equen	omyces albogriseolus strain AVIT A002 16S ribosomal RNA g nce	gene, partial Customize view
	OL587519.1 raphics	Analyze this sequence Run BLAST
<u>to:</u> 🗸		Pick Primers
US INITION ESSION	OL587519 1277 bp DNA linear BCT 20-DEC-2021 Streptomyces albogriseolus strain AVIT A002 16S ribosomal RNA gene, partial sequence. OL587519 OL587519.1	Highlight Sequence Features Find in this Sequence
WORDS RCE RGANISM	Streptomyces albogriseolus <u>Streptomyces albogriseolus</u> Bacteria; Actinobacteria; Streptomycetales; Streptomycetaceae;	Recent activity
ERENCE	Streptomyces; Streptomyces albogriseolus group. 1 (bases 1 to 1277)	Streptomyces albogriseolus strain AVIT A0 16S ribosomal RNA gene, partial sec Nucleot
UTHORS ITLE	Balaji,R., Devika,R. and Sathya,A.B. Isolation of Halophilic actinomycetes from Kelambakkam Salt Pan	Q aarupadai veedu institute of technology (10 Nucleot
OURNAL ERENCE UTHORS	Unpublished 2 (bases 1 to 1277) Balaji,R., Devika,R. and Sathya,A.B.	Streptomyces omiyaensis strain ASAS-2 16S ribosomal RNA gene, partial sec Nucleot
ITLE OURNAL	Direct Submission Submitted (20-NOV-2021) Department of Biotechnology, Aarupadai	gi 2161069315 gb OL744570
MENT	Veedu Institute of Technology, Old Mahabalipuram Road, Kanchipuram, Tamil Nadu 603104, India Sequences were screened for chimeras by the submitter using	Virgibacillus salarius strain AVIT B1004 165 ribosomal RNA gene, partial sequen Nucleot
	Decipher.	See more

S.No	the	Accession Number	Authors	Significant Remarks
1.	<b>Organism</b> Halomonas	OL656094	Balaji, R., Devika,	
	<i>sp.</i> strain		R. and Sathya, A.B.	



Klebsiella pneumoniae Enterobacter aerogens

Candida sp. -7

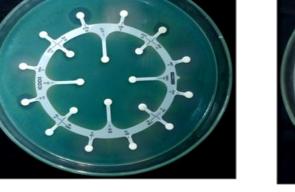
#### MULTI DRUG RESISTANT HUMAN PATHOGENS



B. cereus



M. luteus



S. typhi

MRSA





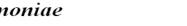


P. aeruginosa





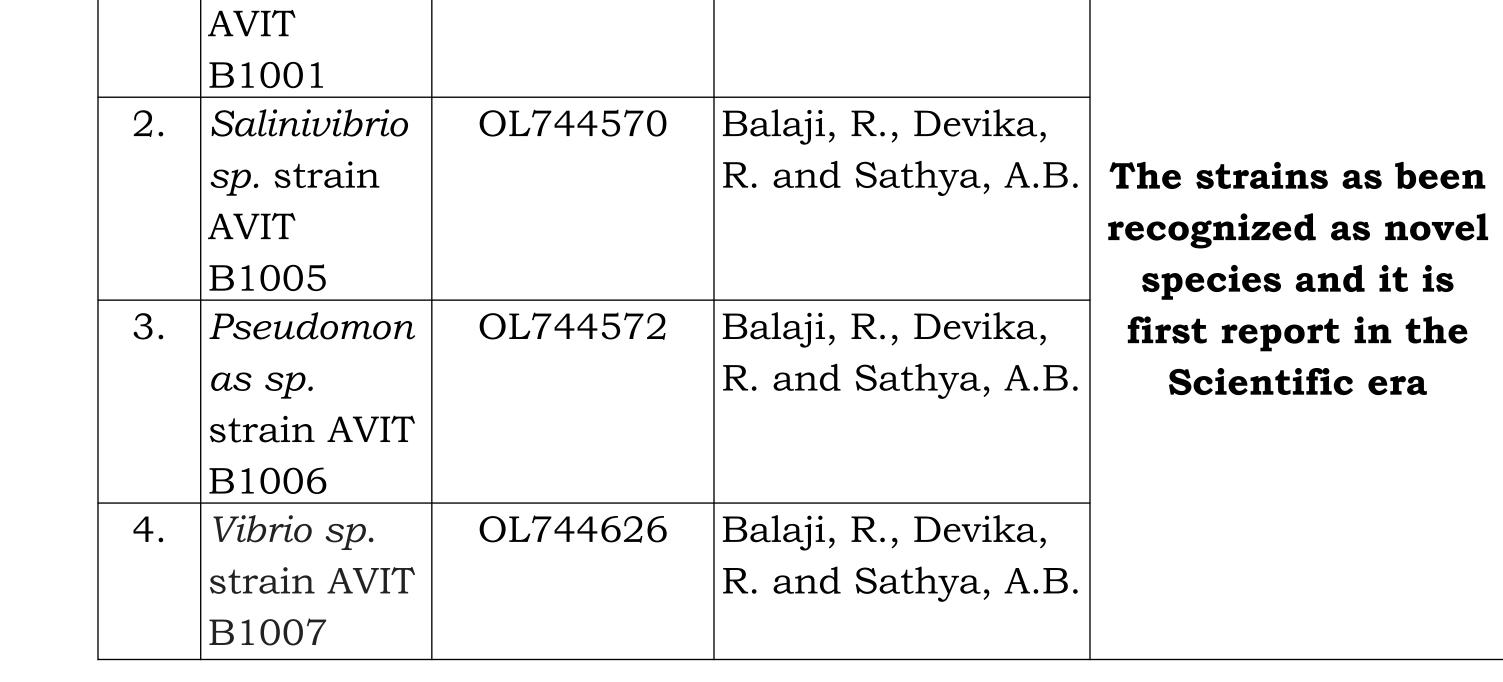
K. pneumoniae







E. aerogens



Patent: Patent Submitting process has been initiated.