

Krishna Chaitanya Pavani

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EDUCATION

Degree	Year	Institution	Major- subjects
Ph.D. Student	2012-present	University of the Azores	Animal Reproduction and Genetics
M.S- Molecular Biology (Advanced level)	2011-2012	University of Skövde, Sweden	Molecular Biology(Genetic engineering -Biotechnology and Infection Biology)
Bachelor of Technology- Biotechnology	2006-2010	Jawaharlal Nehru Technological University Kakinada, India	Biotechnology (Biochemistry, Computational Biology, Genetics, Immunology, Molecular biology, r-DNA technology, Biosensors.)

EMPLOYMENT

Assistant professor	<ul style="list-style-type: none">Worked as Faculty under Department of Humanity and Sciences in B.V.S.R Engineering College Affiliated to Jawaharlal Nehru Technological University Kakinada. From June 2010 to November 2010.
Research Student	<ul style="list-style-type: none">Worked as Research student in Laboratory of Animal reproduction at University of the Azores. From October 2011 to April 2012.

INTERNSHIPS/TRAININGS/COURSES

Organization	Vignan University, Vadlamudi ,India (2 months)
Project Title	<i>Extraction and Antimicrobial Screening of Biological Fibres from Selected plant species (Typha angustifolia Linn. & Agave cantala Roxb.)</i>
Deliverables	This project is related to Anti-Microbial activity of Fibers of plants on the microorganism.
Organization	Guntur Doctor's X-ray institute, Guntur, India (60 days)
Project Title	<i>Bacterial culture and Their Antibiotic susceptibility</i>
Deliverables	This project is related to the anti-biotic Susceptibility patters of diseases.
Organization	Vignan University , Vadlamudi, India (6 months)
Project Title	<i>In-vitro Plant Regeneration studies of Ground nut (Arachis hypogea L) & Chick pea (Cicer arietinum L) for their Heavy Metal Tolerance (K₂Cr₂O₇)</i>
Deliverables	This project is related to determine the heavy metal Tolerance (Chromium) of ground nut and chickpea and to check the toxic levels of chromium in in-vitro conditions at different concentrations

Organization	University of Skövde., Sweden (30 days)
Project Title	<i>Site Directed Mutagenesis of NLRP3 gene and expression of fdhF gene.</i>
Deliverables	Creating mutation D303N in the wild type <i>NALP3</i> gene by site directed mutagenesis and analyze the mutation to the changes in the wild type gene sequences using BLAST. Protein expression of the <i>fdhF</i> gene by SDS-PAGE and Western Blot.
Organization	University of Skövde, Sweden (30 days)
Project Title	<i>Detection and separation of quorum sensing signals by agar-plate based bioassay and Thin-layer chromatography (TLC). Stimulate cells (Huamn monocytes), study the gene (IL-1β) expression levels using qPCR.</i>
Deliverables	Detection and separation of Quorum sensing Signals (AHLs), Agar plate Bioassay and TLC for Identification. Cells stimulation and Harvesting, Extraction of RNA, RNA – cDNA and finally expression by qPCR.
Organization	University of Skövde, Sweden (45 days)
Project Title	<i>PCR-based cloning of two <i>Arabidopsis thaliana</i> genes: CAD1 and PCS1 putatively involved in arsenic metabolism in plants</i>
Deliverables	To clone and study the CAD1 and PCS1 genes from <i>Arabidopsis thaliana</i> which are involved in transport of Arsenite (Asiii) in root vacuoles.
Organization	University of the Azores (6 months)
Project Title	<i>Optimization of the mRNA extraction from fresh and vitrified bovine oocytes for gene expression studies</i>
Deliverables	To optimize the manual extraction techniques of the mRNA extraction method from a minimum oocytes cell and with higher quality to forward perform gene expression technique to get a quantification of gene expression.
LAB SKILLS	
Molecular Techniques	<ul style="list-style-type: none"> • PCR techniques- Inverse PCR, qPCR. • <i>RNA isolation and purification.</i> • <i>Isolation of poly-A+ mRNA and synthesis of cDNA</i> • <i>Isolation and purification of plasmid, and genomic DNA</i> • <i>Agarose Gel Electrophoresis,</i> • <i>SDS PAGE</i> • <i>Competent cell preparation.</i> • <i>Restriction Digestion, Ligation, Cloning and Transformation techniques.</i> • <i>Expression and isolation of Tagged Proteins from Bacterial and Eukaryotic</i>

<p><i>Microbiology Skills</i></p>	<p>cells.</p> <ul style="list-style-type: none"> • Site Directed and Random Mutagenesis using Chemical and PCR methods • Tissue culture(Plants) <ul style="list-style-type: none"> • Preparation of various media including anaerobic to support growth of microorganisms and • Operation of autoclaves. • Sterile technique in isolation and transfer of microorganisms. • Maintenance and storage of aerobic and anaerobic microbial cultures. • Basic operation and maintenance of bright field and fluorescent • Basic staining techniques and performing various microbiological tests. • Preparation of various bacterial media and handling of pathogenic strains of bacteria.
<p><i>Animal Reproduction Techniques</i></p>	<ul style="list-style-type: none"> • IVM • IVF • Aspiration • Stereo Microscopy • Microscopes
<p><i>Scientific Instru-mentation Experience</i></p>	<p>Chromatography Thin layer chromatography (TLC) and Paper chromatography</p> <p>Spectroscopy: Infra red spectroscopy,Ultra violet Spectroscopy</p> <p>Others PH meter, Compound microscopy.</p>

SOFTWARE EXPERTISE

Language: C, C++ ,DBMS

Information System: Microsoft Access

Operating System: MS Windows 98/2000/XP/VISTA/7.

Bioinformatics tool: EXPASY, GENBANK, PDB, ENTREZ, SWISSPROT, BLAST, eMOTIF ,Rtreemix.

MAJOR INITIATIVES

<p>Member</p>	<p>Member for disciple committee and Anti ragging committee in Vignan's Engineering College, Vadlamudi, India.</p>
<p>Excels</p>	<p>Good remarks in many events at school and intermediate level for better performance and active participation in competitions like debates, essay writing and quiz.</p> <p>Having good communication skills.</p>

Publication	<p><i>Punctual and hardworking with full dedication</i></p> <p><i>Won first prize in National Level Technical Poster Presentation</i></p> <p><i>Won Second Prize in National Level Technical Quiz.</i></p> <p><i>Participated in many national and International seminars and workshops.</i></p> <p><i>Organized several National Technical Level Symposium Events.</i></p> <p>IETLS overall band score: 6.0</p>
	<p>P. K. Chaitanya, R. Devi Chowdary, K. Sirisha S. Kanaka and R. Bharath Kumar (2011) Extraction and Antimicrobial screening of Biological fibres from selected plantspecies (<i>Typha angustifolia</i> Linn. and <i>Agave cantala</i> Roxb.)- in <i>Science India</i>, Vol.14.,No.7, July 2011. pp 33-40.</p> <p>Krishna Chaitanya Pavani; Erica E. Baron; Marwa Faheem; A. Chaveiro and F. Moreira da Silva(2014) Optimization of total RNA extraction from bovine oocytes and embryos for gene expression studies and effects of cryoprotectants on total RNA extraction, Accepted to <i>Cytology and genetics</i>. Volume 48, Issuse 1.Impact factor (0.30).</p>

PERSONAL DETAILS

Gender	Male
Date of Birth	16.07.1989
Citizenship	INDIAN
Father'sName	Srinivasa Rao Pavani
Contact Address	Krishna Chaitanya Pavani Largo de Sao lazro no 2 R/C Angra do Heroismo - Azores 9700-185 Portugal
Permanent Address	Hno:6-305,Kurnool Road, Sai Baba Nagar,ward-32,Ongole,Andhra Pradesh, India.

CAREER OBJECTIVE

"To be trained in state-of-the-art molecular biological techniques and grow in a scientific environment that will allow me to become a productive, skilled scientist and I believe that through my level best efforts, I will achieve my aspirations."