

**Dr. KUNCHAM VENKATESH,**

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**OBJECTIVE:** To secure a challenging position in a reputable organization to expand my learnings, knowledge, and skills.

### **INDUSTRY EXPERIENCE:**

**Chemical and Microbial analyst Lotus Granges India Ltd, sheelanagar, Visakhapatnam, Andhra Pradesh.**  
(From 02-03-2021 to 01-12-2021).

### **RESEARCH EXPERIENCE:**

Worked as research fellow in Department of Biotechnology, GIS, GITAM university in project entitled “A comparative study of Microbial and Chemical methods for the Extraction, Purification and Characterization of a Nutraceutical – Astaxanthin, from marine and fresh water shrimp shell discards” funded by Department of Science and Technology, under guidance of Dr K.Prameela, GIT, GITAM University Visakhapatnam.

4 Years of lab experience.

3 years teaching experience.

Animal Mice handling experience

### **LABORATORY SKILLS:**

**Animal Cell Culture Techniques:** Media preparation (In-house & commercial media), Cell Culture Revival, Cryopreservation and Maintenance of Adherent and Suspension cultures (Shake Flasks). Cell counting (Automated machine and Hemocytometer).

**Upstream Cell Culture:** Single use Wave Bioreactor handling and assembly, maintenance of cells in optimized condition by checking the pH, Conductivity, Glucose and osmolality of the Media. Scale up of Rituximab and Denosumab CHO cells upto 2 Liter shake flasks.

**Chromatographic techniques:** Paper chromatography, TLC, affinity chromatography, HPLC, HPTLC.

**Microbial techniques:** Media preparation, plating, staining of organism.

**Immunological techniques:** ELISA, RIA, Lyophilization.

**Molecular techniques:** SDS- PAGE, Flow cytometry, Isolation of DNA, Reverse Transcriptase PCR, Plasmid Isolation, Transfection, Western Blotting, Immuno fluorescence microscopy.

**Exosome Based Experiences:** Exosome isolation from serum sample and cell culture media, Immunoprecipitation, Sample preparation for LCMS/MS, Peptide identification by mMass and Mascot software. Bioinformatics studies like Gene Ontology, STRING Analysis.

**COMPUTER AND SOFTWARE SKILLS:**

- ❖ Efficient in MASCOT, mMASS, STIRNG, Image J, ImageLab.
- ❖ Daily usage of M.SOffice (Word, Power Point, Excel and Access), and Internet proficiency.

**EDUCATION:**

Year	Course/Degree	Discipline	Institution	Percentage
2003	Board Secondary Education	Mathematics, Science, Social Studies.	ZPHS School, seethayyapeta, A.P	74%
2003-2005	Board of Intermediate Education	Maths, Physics & Chemistry	Arunodaya Junior College Narsipatnam, Visakhapatnam, Andhra Pradesh	72%
2005-2008	Bachelors of science.	Biotechnology	A M A L College, Andhra University Dept. of Biotechnology, Visakhapatnam, Andhra Pradesh.	64%
2009-2011	Master of Science.	Biotechnology	Dr V S Krishna college, Andhra University, Visakhapatnam, Andhra Pradesh.	84%
2015-2020	Doctor of Philosophy	Biotechnology	GITAM Deemed to be University, Vizag, AP.	Ph.D. Awarded

**PhD in Biotechnology**

**PhD thesis title:** *Studies On Microbial and Chemical Extraction, Purification, Antioxidant and Anti-Inflammatory Activities of Astaxanthin From Crustacean Waste*

**Under Guidance:** Under the guidance of Dr. K. PRAMEELA Assistant Professor, GITAM Deemed to be University, Visakhapatnam, India.

**Publications from Ph.D. work.**

1. Next generation nutraceutical from shrimp waste: The convergence of applications with extraction methods. Food Chemistry Volume 237, 15 December 2017, Pages 121-132.
2. Comparison of Compositional Characteristics of Marine and Freshwater Shrimp Waste. International journal of pharmacy and pharmaceutical research October 2017 vol.:10, Issue 3.
3. Eco-Friendly Extraction of Biopolymer Chitin and Carotenoids from Shrimp Waste. IOP Conference Series: Materials Science and Engineering 225 (1), 012266
4. Venkatesh Kuncham and Kandra Prameela, 2020. Process Yield, Proximate and Chemical Composition and Antioxidant Activity of Astaxanthin from Solenocera Crassicornis. International Journal of Pharma and Bio Sciences, B, 100-105.

**ORAL/POSTERPRESENTATION/CONFERENCES:**

1. International Conference on Biotechnological Aspects of Chitosan and Chito-oligosaccharides and 6th Indian Chitin and Chitosan Society Symposium 21st – 22nd September, 2017.
2. International conference on advanced material technologies (ICAMT)-2016.
3. International Conference on Emerging Biotechnologies organized by Kakatiya University during 28-30th Jan 2016

**PERSONAL PROFILE**

Name : Venkatesh Kuncham  
Father name : Jogarao  
Date of Birth : 05 May 1988.  
Language known : English, Hindi and Telugu.  
Category : General

**PATENT FILED**

Extraction of astaxanthin from solenocera melantho(patent), Application No.201741018601A

**REFERENCE:**

- 1.Dr. K. Prameela,  
Assistant professor, Git Biotechnology,  
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- 2.Prof. Ch. Murali mohan,  
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- 3.Prof. K.Aruna Lakshmi,  
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**PEREMENENT ADDRESS:**

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**Date:**

**(Venkatesh Kuncham)**