**Curriculum Vitae**

**Hari Krishna**

S/O Gopal,

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Nellore - 524 003, Andhra Pradesh.

**Summary:**

Overall 12 years of research experience in the field of Biotechnology.

# Education:

**Ph.D. Biotechnology 2014-2022\***

Acharya Nagarjuna University, India.

**M.Sc. Biotechnology2008**

Periyar University

**B.Sc. Biotechnology 2003**

S.V University

**Work Experience:**

**Biosimilar Insulin Glargine** is a long acting, man-made version of human insulin. Insulin glargine works by replacing the insulin that is normally produced by the body and by helping move sugar from the blood into other body tissues where it is used for energy. It also stops the liver from producing more sugar. Insulin Glargine has a substitution of glycine for asparagines at N21 (Asn21) and two arginines added to the carboxy terminal of B-chain. The arginine amino acid shifts the isoelectric point from a Pᴴ of 5.4 to 6.7, making the molecule more soluble at an acidic Pᴴ and less soluble at physiological Pᴴ. The isoelectric shift also allows for the subcutaneous injection of a clear solution. The glycine substitution prevents deamidation of the acid sensitive asparagine at acidic Pᴴ. In the neutral subcutaneous space, higher-order aggregates form, resulting in a slow, peakless dissolution and absorption of insulin from the site of injection. It can achieve a peakless level for at least 24 hours.

**Research project:**

As a full time Research Scholar atDepartment of Biotechnology, Acharya Nagarjuna Universityfor my Ph.D, I am currently working on “**Isolation, purification of small peptides from medicinal plants for therapeutic purpose**”. Smallpeptides are a new emerging family of large plant-derived backbone-cyclized polypeptides (approximately 30 amino acids long) that share a disulfide-stabilized core (three disulfide bonds) characterized by an unusual knotted structure. Their unique circular backbone topology and knotted arrangement of three disulfide bonds make them exceptionally stable to thermal, chemical, and enzymatic degradation compared to other peptides of similar size. Considering their stability and biological activities like retroviral, uterotonic, and insecticidal, and also their abilities to cross the cell membrane, cyclotides can be exploited to develop new stable peptide-based drugs.

**Workshops/Seminars/Trainings Attended**:

* Attended Bioinformatics- Workshop on “Bioinformatics analysis using accelrys GCG and Seqlab” at Accelrys, Bangalore, India.
* Attended a four days hands on training programme on “Genomic and proteomic analyzer” held at state-of-art genomic and proteomics training facility atLabindia Research and development laboratory, gurgaon, india.
* Attended a Workshop on “Instrumental methods of Analysis“at Centre for Environment (Agilent and Shimadzu HPLC systems, Electrophoresis, UV/Vis spectrophotometers, ELISA, ultracentrifuges, and general laboratory equipment) Institute of Science & Technology, Jawaharlal Nehru Technological University, Hyderabad, India..
* Attended a UGC sponsored refresher course on “**Recent trends in Biotechnology**” from 13th June 2007 to 2nd July 2007. Organized by UGC academic staff college, Jawaharlal Nehru Technological University, Hyderabad.
* National Workshop on **“Hydrogen & Fuel Cell Technologies for Future Energy Options”** held during 22& 23rd December, 2008 at UGC-ASC Auditorium, Jawaharlal Nehru Technological University, Hyderabad.
* International Workshop on “**Clean Technologies for Sustainable Development”** held during 9th & 10th December, 2009 at Jawaharlal Nehru Technological University, Hyderabad.

**Skills:**

Chromatography (Reverse Phase & Ion Exchange), Protein purification (AKTA), Electrophoresis and SDS-PAGE, UV Spectro Photometer, Cell Culture, ELISA, Western Blottnig.

**Professional Experience:**

* Present working as Assistant Manager in V Care Biolabs in R&D (Process Development) Department.
* Worked (2018-2019) as Junior Scientist in Virchow Biotech Private Limited in R&D Department.
* Research assistant at Centre for Biotechnology, Jawaharlal Nehru Technological university, Hyderabad. .

**Personal Profile:**

Name : Choppavarapu Hari Krishna

Father’s Name : CH. Gopal

Date of Birth : 12-6-1985

Marital Status : Single

Address for Communication : C/O, CH Gopal,

H.No:23-3-183,

ARAVINDA NAGAR

Nellore-524 003,

A.P., INDIA.

**DECLARATION:**

I hereby declare that the information given above is correct to the best of my knowledge and belief.

**(CH. HARI KRISHNA)**