

Dr. Hephzibah Rani Singh
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Educational Qualifications

Awarded Ph.D, Department of Biotechnology 2018
Title: “Studies on L-Glutaminase produced from marine Streptomyces Parvus”
Organization: Andhra University, Visakhapatnam, India.

M.Sc in Biotechnology - 2004
Grade: First Class with 64%.
Organization: Barkatullah University, Bhopal, India.

B.Sc with Biotechnology, Biochemistry and Chemistry - 2002
Grade: First Class with 74%.
Organization: TSR & TBK Degree College affiliated to Andhra University,
Visakhapatnam, India.

Employment Experience

- Currently working as Senior.Assistant Professor & Head of Department of Biotechnology in Gayatri Vidya Parishad College for Degree and PG Courses (Autonomous), Visakhapatnam from 10-08-2005 to till date. Total of 15+ years experience in teaching.
(*Ratified as Lecturer by Andhra University in 2008*)
Handled the following subjects like Molecular Biology, Recombinant DNA Technology, Cell Biology, Immunology, Biostatistics, Bioinformatics, Genetics, Plant and animal biotechnology, Industrial and Environment biotechnology, Biophysical Techniques and Instruments (techniques) like Paper chromatographic separation of amino acids and carbohydrates, Thin layer chromatographic separation of amino acids and carbohydrates, Ion Exchange Chromatography, Tissue Culture Technique, Handling a Fermenter, SDS PAGE, PCR, Centrifugation , Spectrophotometer, colorimeter, Immunological techniques, etc

Publications and Presentations

1. Published research paper in Journal of Emerging Technologies and Innovative Research on the topic “Purification of anti cancerous enzyme L-Glutaminase from marine Streptomyces parvus HSBT0318”. ISSN No.2349-5162, volume 6, Issue 5, May 2019.
2. Published research paper in International Journal of Scientific Research on the topic

“Screening, isolation and polyphasic characterization of L-Glutaminase from marine streptomyces parvus” .ISSN No.2277-8179, volume 5, issue: 12, December 2016.

3. Published an article in Bioinformatics, Proteomics and Genomic: In search of Literature and Geographical contributions from Pub Med Database for a journal of bioinformatics and its applications named Bioinformatics Trends, volume I, Issue2, 2006.
4. Presented an Oral entitled “Causes, Effects And Challenges Of Chemical Incidents In Marine Environment” in a three day International Virtual Conference On (ICDB- 2020) from 24.07.2020 to 26.07.2020 organized by Andhra University, Visakhapatnam and Andhra Pradesh Akademi of Sciences.
5. Presented paper on “ Optimization and purification of anti-cancerous enzyme L-Glutaminase from Sreptomyces parvus” in a two day national seminar on “Environmental Health and Biotechnological Applications on Food and Pharma industry” by Departments of Biotechnology and Food, Nutrition and Dietetics held at Andhra University, Visakhapatnam during 27th and 28th October, 2018.
6. Presented paper on “Purification of anti-cancerous enzyme L-Glutaminase” in the national seminar on “Emerging solutions in Medical and Environmental Biotechnology” organised by Dr. Lankapalli Bullayya College, Visakhapatnam held during 22nd and 23rd February 2019.
7. Presented a paper on “purification of anti cancerous enzyme L-Glutaminase from marine Streptomyces parvus HSBT0318” in the two day International conference on Multidisciplinary Innovation in Academic Research” organized by the Institute for Engineering Research and Publication at Kolkata in May 2019.

Certifications:

- Successfully completed the online offering of the course provided by Coursera entitled “Genes and the Human Condition (From Behavior to Biotechnology)” and achieved the statement of accomplishment, 25th September, 2019.
- Certificate course in “Protein Modeling and Drug designing”, (Bioinformatics) with Progene Biosciences, Visakhapatnam, 2005.

Projects

- A Project on protein modelling and drug designing (Bioinformatics) titled “Cyclooxygenase-2 inhibitors: Role in inflammation & Computational Studies on Sequence Analysis, Homology Modeling and Drug Design Strategies”, Progene Biosciences, Visakhapatnam.
- Project work (Biotechnology) On “Media Optimization of Bacillus substilis and In-Plant Training”, Microbax India Ltd, Hyderabad
- Minor projects guided for students(UGC funded):
 - “Media Optimization and Antibiotic Sensitivity of Bacillus Subtilis”
 - “Determination of Thermal Death Rate and Death Time of Microorganisms” like E.Coli, Salmonella, Pseudomonas, Bacillus, etc.
 - “Microbiological Analysis of Water as per any Standard Pharmacopoeia”

Resource Activities

- Attended the Mahila mitra and cyber mitra programme organized by the Govt. of Andhra Pradesh.
- Participated in CII-IWN Andhra Pradesh empowerment conclave on 28th November 2020
- Organized GENRECKON- 2K19(A Biofest event under Biohub student club) in 2019
- Organized a One Day Seminar On “Technology Transfer And Innovation Management In Academia And R&D”
- Organized One day seminar on the Topic –Drug Abuse on 22nd September 2017.
- Organized One day symposium on “Biosciences for a better society” -24th February 2018.
- Organized One day workshop on the Topic – “Bioinformatic tools” on 21st December 2018
- Organized One day symposium on“ science for people and people for science” on 25th February 2019
- Participated in a one day conference on academy-industry interaction the GLOBAL BIO-INDIA Road show held by Biovaley at AMTZ, Visakhapatnam on 24th october 2019.
- Participated in a workshop on “Intellectual Property in Innovation & New Product Development” held on April 26th ,2019 at Kalam Convention Center, Visakhapatnam, Andhra Pradesh, organized by Novel IPR Academy, AMTZ,
- Organised a two day workshop on Intellectual Property Rights- Patents Inventions: Procedure, Practice and Protection” Gayatri Vidya Parishad College for Degree and P.G.Courses(A) held on 13-14 March 2019
- Participated in the national seminar on “Emerging solutions in Medical and Environmental Biotechnology” organised by Dr. Lankapalli Bullayya College, Visakhapatnam held during 22nd and 23rd February 2019,.
- Attended the Science Academies’ Workshop on “Recent Advances in Diagnostic and Therapeutics in Infectious Diseases” organized by the dept. of Biotechnology, Institute of Sciences, GITAM(Deemed to be University), Visakhapatnam held on 23-24 November, 2018.
- Attended a two day national seminar on “Environmental health and biotechnological applications in food and pharma industry” by Departments of Biotechnology and Food, Nutrition and Dietetics held at Andhra University, Visakhapatnam during 27th and 28th October, 2018.
- Participated in the National Conference on “Future India: Science and Technology” and a special Symposium on “Contributions of Life sciences and Biodiversity for Human Welfare” organised jointly by Indian Science Congress Association Tirupati Chapter and Gayatri Vidya Parishad College for Degree and P.G.Courses(A) on 30th September and 1st October ,2018.
- Attended a two day workshop on “Techniques in health ,disease and environmental monitoring” Organized by school of life sciences, GITAM University on 14th -15th December 2016.

- Attended the Science Academies' Lecture workshop on "Advances in Molecular Techniques " on 27th and 28th November,2015 organised by Dept. of Biotechnology, GITAM University.
- Participated in a two day national level workshop on "Obesity- A life style challenge" organised by Dr. V.S.Krishna Govt. Degree and P.G.Courses,Visakhapatnam, sponsored by UGC on 3rd and 4th February 2015.
- National seminar on Present perspectives of bioactive molecules and biotechnology, jointly organized by the departments of Biochemistry, Biotechnology and Microbiology, Andhra University, Visakhapatnam on 30th and 31st May 2012.
- Organised a two day seminar on "Climate change –Impact on human health and environment" (sponsored by ministry of earth sciences), Gayatri Vidya Parishad college for Degree and PG courses(A), Visakhapatnam on 11th and 12th February 2011 .
- Organised a two day seminar on "Recent advances in marine environment" (sponsored by ministry of earth sciences,New Delhi), Gayatri Vidya Parishad college for Degree and PG courses(A), Visakhapatnam on 16th and 17th March 2012.
- Participated in the National conference for Emerging trends in chemical education and research in India in the 21st century by NCCT held in 14th and 15th November 2009, Visakhapatnam attended by eminent scientists and professors from all over India.
- Attended a workshop conducted by Helini Biomolecules, Chennai in collaboration with Andhra University in the Department of Biotechnology, Andhra University on DNA Finger Printing using RT-PCR.
- Attended the training programme on "Mushroom Cultivation" on 15th April, 2010 organised by the department of Horticulture in the regional mushroom laboratory, Visakhapatnam.
- Attended an International two-day symposium on Current Approaches In Bioresearch Management during 8th and 9th March,2010, organized by Dr.V.S.Krishna Govt.College, Visakhapatnam.
- Hands on Training in "Human DNA Finger Printing by using ALU method" in the Institute of Helini Biomolecules, Chennai in March 2010.
- Attended the IQAC seminar sponsored by NAAC on Improving Quality and Methodology of Higher Education graced by the honorable Vice Chancellor of Andhra University on 20th September 2009.
- Participated in a "Training Program in Biotechnology" sponsored by Andhra Pradesh state council of higher education, Hyderabad from the department of biotechnology, college of science and technology, Andhra university from 8th to 13th October 2007.
- Attended workshop in "Orientation Programme of computer basics" organized by Department of Computer Applications, Gayatri Vidya Parishad Degree and PG college, Visakhapatnam on 1st and 2nd March 2007.
- Participated in a workshop on "Emerging Experimental Techniques In Molecular Biology", organized by the department of Biotechnology (Engg.), GITAM University, Visakhapatnam, in association with Bangalore Genei, Bangalore on 24th & 25th August 2006.
- Attended and organized many online activities during this pandemic from April 2019 till date (around 35). Some of them are:

- DBT - NIH Webinar - Challenges in Conducting Human Challenge Studies: Policy Perspectives from India and United States-oct 22,2020
- Participated in IECBBB 2020 (International E-Conference on Biotechnology, Bioinformatics, and Biomedicine 2020) organized by, Department of Biotechnology, Faculty of Applied Sciences, AIMST University, Kedah Darul Aman, Malaysia held from 24th to 26th august 2020
- Participated in the Ministry of Human Resources Development (MHRD)- Scheme for Promotion of Academic and Research Collaborations (SPARC) supported International online Faculty Development Programme on “Translational And Interdisciplinary Research In Human Diseases Management” organized by the Centre for Drug Discovery and Development, Sathyabama Institute of Science and Technology from 24th to 30th July 2020.
- Participated in An international webnair on COVID-19: Role of biotechnologist conducted by the department of botany,Christ church college ,Kanpur in association with Biotechnology society of Nepal on July 9th 2020
- Participated in Online Sessions conducted by IIC-MIC in the areas of Innovation, IPR, Entrepreneurship, and Start-ups from 28th April 2020 to 22nd May 2020 by Institutions’ Innovation Council (IIC) of MHRD’s Innovation Cell
- Attended the National Workshop On “Recent Advances in Biological Sciences – Techniques and Bioinformatics” (RABSTB-2020) organized by Department Of Biochemistry, Andhra University, Visakhapatnam on 23rd and 24th June, 2020
- Participated in the webinar on "Exit Strategies for Startups" held on 22nd June 2020 by BIRAC Regional Techno-Entrepreneurship Promotion Centre (BRTC) at KIIT-TBI, Bhubaneswar
- Participated in the Webinar on Production & processing of horticulture crops, conducted by Mizoram University on 26th May, 2020.
- Participated in an FDP conducted on SARS-CoV-2 Research: Insights from Computational Biology on 11th to 15th May 2020 by department of lifesciences ,Kristhu Jayanthi college.

Membership

- Member of Indian Science Congress.
- Member of India Council For Technical Skill Development" A Non Profit Organization

Other Administrative Responsibilities:

- Worked as IPR Coordinator
- Worked as skill based coordinator and trainer for training students in mushroom cultivation.
- Working as Board of studies chairman for the department of Biotechnology

Recent achievement:

Recognized as Research guide by Andhra University, 2nd November 2020.

Other activities:

- Associated with Aids awareness program conducted in the college and participated in blood donation camp and eye camp conducted in the college.
- Assisted the processing duty during admissions and also during the conduct of internal and external Examinations in the college.
- I have set papers for Autonomous Colleges
- I have acted as an examiner For Andhra University and Autonomous colleges.

Personal Profile:

Father's Name : Chandra Mohan Singh
Date of Birth : 12/10/1979
Sex : Female
Nationality : Indian
Religion : Christian
Computer Skills : MS word, MS Excel, PowerPoint, etc