

J Ujwal Kumar - M.Sc. and MBA

<https://www.linkedin.com/in/ujwal-kumar-jonnala-a0160945>

Contact : +91-897 186 7500;

Mail Id: ujwalkumar@gmail.com .

SUMMARY

Result oriented professional scientist with 14+ years of extensive experience in molecular biology, cell biology, cancer research, and *In vitro* biology with 9 scientific publications and a Patent. I am a team leader with strong organizational, project management and leadership skills.

EDUCATION

Indian Institute of Technology, Delhi (Enrolled) –

Starts from September 30, 2021

Certificate Program in Project Management

YourStory Education

Mar 2021 - Ongoing

Product Management Course

National Institute of Business Management (Part Time)

Jun 2013 – Aug 2015

MBA in Operations Management and Pharmaceutical Business Management

Sri Ramachandra University (SRMC), India

Jun 2005 – Apr 2007

Master's in Biotechnology

Bangalore University, India

Jun 2002 – Apr 2005

Bachelor's in Biotechnology, Genetics, Biochemistry

AWARDS/ ACTIVITIES/HOBBIES

- **“Hon’ble Dr. Murli Manohar Joshi Gold Medal”** in Biotechnology for best outgoing student in the academic year 2005-2007 in M. Sc.
- Graduate Aptitude Test in Engineering, 2007 (GATE)
- Provisionally selected for INSPIRE-DST Fellowship.
- Theatre performer, Acted in a short film, named SANA – A Kannada Psychological thriller; & performed theatre in BBRC Science day, India.
- Enjoy travelling, Yoga and deep meditation

EXPERIENCE

➤ **Working as Biocharacterization Specialist at Dr. Reddy's Laboratories Ltd., Hyderabad, Telangana, India from 15th March 2020 – till date**

Responsibilities:

- Biological characterization: Include biochemical assays, Cell-based assays, and Enzyme assays – Method Development, Qualification, Validation, Transfer and Life-cycle management.
- Developing *in vitro* cell based and/or biochemical assays for product characterization and efficacy (Peptide drugs, Parenterals, Ophthalmic, Topical, OSD etc)
- Developing and establishing immunogenicity studies (both innate and adaptive systems) based on the FDA guidelines and recommendations.
- Exploring and establishing new capabilities through innovation.
- Management of team and projects of Bioassay and New product development
- Project tracking for timely execution and meeting the revenue targets.
- Regular update to all stakeholders and weekly project status update to Management.

- Mentoring team members, budget and man-power planning.
- Outsourcing and timely monitoring of ongoing projects.
- Support for regulatory filings
- Establishing external collaboration and liaising (with service providers, vendors)
- Industrial Hygiene Ambassador – to support SHE team on updating IHRA, QNEA and QLEA assessments

➤ **Worked as Research Scientist at Syngene International Ltd., (Biocon BMS R & D Centre), Bangalore, Karnataka, India from April 2014 – 13th March 2020**

Responsibilities:

- Stable Cell Lines/Clone Development for the Several Assay Platforms to assist the drug discovery.
- Usage of several methods of DNA delivery mechanisms like Lipid Mediated Electroporation and Lentiviral Technology.
- *In Vitro* Gene Knockout (CRISPR mediated gene editing) and Knock Down (shRNA) studies as a part of Target Validation, Antibody Validation in the Drug Discovery Programs.
- Membrane protein preparation for the Safety panel assessment during the Drug Discovery Process.
- Involved in Project Costing.
- Initial Molecular Biology support.
- Established a functional Lentiviral Laboratory.
- Cell Based Assay Optimizations on need basis.
- Clone/Inventory Management – planning and ordering reagents and consumables.
- Past member of Bio-safety Committee in representing Genomics and Proteomics labs of DST.
- Member of Emergency Response Team.
- Past representative for the Green Lab Certification Program for DBTS Labs.

Achievements:

- Received R&D Star Award 4 times in a span of 5 Years.
- Received a Team Triumph Award.
- Received best Extra- Curricular Activities Award.

➤ **Worked as a Group Leader Cell Culture Department in Navya Biologicals Pvt Ltd., Hubli from April 2013 – Mar 2014**

Responsibilities:

- Generated the Stable Single Clones for the Biosimilar Production.
- Undertaken Media Optimization Studies using Shake flasks for the over expression of target Proteins.
- Involved in taking care of Scale up/Seed rising for the Mammalian Fed Batch Systems.
- Clone Inventory and Preparation of SOPs etc.,
- Handled a team of 3 Research Associates.
- Involved in Project Costing.
- Training the associates and guiding to complete the assigned tasks.

Achievements:

- Successfully completed several milestone of Biosimilar Development.
- Received Best Team Leader of the year award.

➤ **Worked as a Scientist in Vimta Labs Ltd., Hyderabad from Nov 2011 – Mar 2013**

Responsibilities:

- Developed and executed various cell based/cell free assays for supporting compound screening or mechanism of action studies, largely irrespective of disease area.
- Collation and analysis of experimental data generated.
- Extensively involved in Project Costing and helped BD team in making the quotations.
- Summarize and report data with appropriate conclusions from experimental results to be provided to the customer.
- Developed and validated assays and prepare SOPs for activities in CMB.
- Participated in technical discussions with clients to generate scope of work and protocols to execute projects.
- Ensured proper archival of hard copies and backing up of soft copy data periodically as per the archival policy of the division.
- Taken care of Operating and maintaining various instruments routinely used in *In Vitro* Biology and Biomarkers and maintain cleanliness in the laboratories.
- Inventory Management – planning and ordering reagents and consumables.
- Supervising the trainee scientists and interns in the lab and getting them trained in performing in vitro assays and other related activities.
- Execution of Microarray and other molecular biology related activities in CMB team on need basis.

Achievements:

- Generated Very High Quality GLP document for a Critical PK-Immunogenicity study.
- Successfully developed and validated a Cell Based Assay Screening Method.

➤ **Worked as a Project Assistant in Centre for Cellular and Molecular Biology (CCMB), Hyderabad from Feb 2010 - Sep 2011**

Responsibilities:

- Research on multiple projects related to prove the HSPs as Potential Cancer Biomarkers.
- Assisted the team on the project documentation and implementation process.
- Published multiple articles on HSPs and Cancer Regression.

Achievements:

- Successfully published multiple articles on HSPs and Cancer Regression.

➤ **Worked as a Project Trainee/Assistant in National Centre for Biological Sciences (NCBS), Bangalore from Sep 2009 - Nov 2009.**

Responsibilities:

- Assisted Post Doc in completion of the project on evaluation of role of NF- κ B in TGF- β mediated EMT.
- Involved in the documentation of the process.

- Rendered the knowledge on TGF- β mediated EMT.

Achievements:

- Successfully completed the project in short span.
- Knowledge enlightens on Project handling and assisting to the Hierarchy Level.

➤ **Worked as a Research Associate in Navya Biologicals Pvt Ltd., Hubli from Jun 2007- Sep 2009.**

Responsibilities:

- Generated several plasmid/gene clone constructs for different projects of biosimilars.
- Generated the Stable Single Clones for the Biosimilars Production.
- Trained at a premier institute, Centre for Cellular and Molecular Biology (CCMB), Hyderabad for handling the cell lines and processes.
- Helped the company in successfully establishing a fully functional cell culture lab and department.
- Clone Inventory and Preparation of SOPs etc.,
- Handled a team of 2 Associates.
- Involved in Project Costing.
- Training the associates and guiding them to complete the tasks assigned.

Achievements:

- Successfully completed several milestones of Biosimilars Development.
- Published a Patent on Novel Polynucleotide Molecules for Enhanced Gene Expression.

Patent:

File No/Publication No: WO2010/150282; Date: 29th December 2010; Rajyashri K R, Annapoorani J, **Jonnala Ujwal Kumar**, Veeresh S Hugar, Ashok Kumar. **“NOVEL POLYNUCLEOTIDE MOLECULES FOR ENHANCED GENE EXPRESSION”**; USPTO Application # 20120129770

PUBLICATIONS

1. Pankaj Kumar; Bharath Devaki; **Ujwal Kumar Jonnala**; Sreedhar Amere Subbarao, Ph. D. Hsp90 facilitates acquired drug resistance of tumor cells through cholesterol modulation independent of metastasis. *Biochimica et Biophysica Acta (BBA) – Molecular Cell Research*, April 2020
2. Upasana Sarangi, Paithankar Khande Rao, **Jonnala Ujwal Kumar**, Vaidyanathan Subramaniam, Amere Subba Rao Sreedhar. 17AAG Treatment Accelerates Doxorubicin Induced Cellular Senescence: Hsp90 interferes with enforced senescence of tumor cells. *Journal Drug Target Insights*, 2012; 6: 19-39.
3. Vishal Chaturvedi, **Jonnala Ujwal Kumar**, Khande Rao Paithankar, Perumal Vanathi, Amere Subbarao Sreedhar. Pharmacological inhibition of Hsp90 as a novel antitumor strategy to target cytoarchitecture through extracellular matrix signaling. *Medicinal Chemistry*, September; Vol. 7 (No 5), pp. 454-465, 2011.
4. Chaturvedi Vishal, **Jonnala Ujwal Kumar**, Cherukuvada Veera Brahmendra Swamy, Rangaraj Nandini, Gunda Srinivas, Rathinam Kumaresan, Singh Shashi and Amere Subbarao Sreedhar. Repercussion of mitochondria deformity induced by anti-Hsp90 drug 17AAG in human tumor cells. *Journal Drug Target Insights*, 2011; 5: 11-32.

5. G. Tirupathy Rao, K. Suresh Babu, **Jonnala Ujwal Kumar**, P. Sujana, A. Veerabhadra Rao, and A. S. Sreedhar. Antimicrobial principles of selected remedial plants from southern India. *Asian Pacific journal of tropical biomedicine*, 298-305, 2011.
6. Paithankar Khande Rao, **Jonnala Ujwal Kumar**, Chaturvedi Vishal, Amere Subbarao Sreedhar. Combinatorial effect of 17AAG and doxorubicin on stress induced cellular senescence of human neuroblastoma cells. *Journal of the Indian Academy of Geriatrics*, September; Vol. 6 (No 3) 2010.
7. **J Ujwal Kumar**, Shankaraiah, R. Sateesh Chandra Kumar, V. V. Pitke, G. Tirupathi Rao, B. Poornima, K. Suresh Babu and A. S. Sreedhar. Synthesis, anticancer and antibacterial activities of piplartine derivatives on cell cycle regulation and growth inhibition. *Journal of Asian Natural Products Research*, (2013 Accepted)
8. Vikrant Pitke, Prasanna Anjaneya Reddy, **Jonnala Ujwal Kumar**, Upasana Sarangi, Amere Subbarao Sreedhar. Geldanamycin Combination with Colcemid Induces Mitotic Arrest Through Stabilization of bubR1 Mitotic Kinase in Human Tumor Cells. *Journal of Cancer Therapy*, 2013, 4, 709-719.
9. Krishna Chaitanya V, **Jonnala Ujwal Kumar**. Edible Vaccines. *Sri Ramachandra Journal of Medicine*. 2006 September; Vol. I (I): 33-34.

WORKSHOPS/SYMPOSIA/SEMINARS

- Participated in Virtual workshop by USFDA - Non-clinical Immunogenicity Assessment of Generic Peptide Products: Development, Validation, and Sampling on JANUARY 26, 2021
- Participated in NextGen genomics, Biology, Bioinformatics and Technologies (NGBT) Conference, from 3rd to 5th October 2016 in Cochin, Kerala, India
- Participated in Translational Workshop on PCR-based Food pathogen Detection Kits developed under NIN-Bioserve joint initiative on 26th April 2012.
- Participated in Seminar on “Eco-friendly Ancient Sciences of India” – Research Opportunities conducted by VANDE MATARAM YOUTH FRONT and INSTITUTE OF SCIENTIFIC RESEARCH ON VEDAS on 25th September 2011.
- Participated in 30TH ANNUAL CONVENTION OF INDIAN ASSOCIATION FOR CANCER RESEARCH & INTERNATIONAL SYMPOSIUM ON "SIGNALING NETWORK AND CANCER", IICB, Kolkata, India from 6th to 9th February 2011.
- Participated in the Science and Spiritual Quest on “Role of Science and Spirituality for Scientific and Social Development” conducted by Bhaktivedanta Institute, Kolkata, India on 4th and 5th December, 2010.
- Participated in the joint 8th Annual Conference of Indian Academy of Geriatrics and 15th Biennial Conference of Association of Gerontology, India is being organized as INDIAN AGING CONGRESS - 2010 at Banaras Hindu University, Varanasi, India on 12th, 13th and 14th November, 2010.
- Participated in “The National Workshop on Trends in Systems Biology and Bioinformatics” conducted by Centre of Excellence in Bioinformatics, Madurai Kamaraj University, Madurai from 6th to 8th of March 2007.
- Participated in the workshop “ The First Indian Congress On Alternatives To The Use Of Animals In Research, Testing & Education” conducted by I-CARE and Sri Ramachandra University, Chennai in 2007.
- Participated in the workshop “ Hematology, Transfusion & Transplantation Immunology” conducted by Dept. of Pathology, Hematology& Blood bank, SRU, Chennai, in 2006.
- Visited King Institute, Guindy, Chennai for understanding the large-scale Vaccine production and Quality control in 2006.
- Participated in national level symposium on emerging trends in biotechnology HELIX '05 and won third place in non-technical quiz in 2005.

- Participated in life science symposiums BIONEERS conducted by Dept. of life sciences, Sri Bhagawan Mahaveer Jain College, Bangalore in 2002, 2003 and 2004
- Visited Indo American Hybrid Seeds, Bangalore for understanding large-scale Plant Tissue Culture techniques in 2003.

ADDITIONAL QUALIFICATION

➤ AI for Everyone

- **Year:** August 2020
- **Institution:** Coursera Certification.

➤ Design Thinking for Innovation

- **Year:** September 2020
- **Institution:** Coursera Certification.

➤ Advanced Diploma in Genetic Engineering

- **Year:** August 2003- March 2004
- **Duration:** 8 months
- **Institution:** Jain Institute of Vocational and Advanced Studies (JIVAS), Bangalore.

➤ Diploma in Plant Tissue Culture

- **Year:** August 2002- March 2003
- **Duration:** 8 months
- **Institution:** Jain Institute of Vocational and Advanced Studies (JIVAS), Bangalore.