



Vishal Ranjan
(Ph. D Biotechnology)

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Progressive professional in team leading and project management for the pharma and allied industry

Total Work Experience: 11+ years of CRO and R&D

Key skill sets: Agile Project Manager, Leadership, *In Vitro* & Bio-assays, DMPK/ADME, Bio-analytical, LCMS/MS (API3200 & Agilent6410), HCS (Opera Phenix & Cell Insight)

Work Profile:

✚ 28 Aug, 2019 – To Date

Senior Scientist (Team Lead) | Datar Cancer Genetics Ltd. Nashik, INDIA

- Experienced in handling HCS Perkin Elmer Opera Phenix and Thermo Cell-Insight LXR platforms for Biomarker based Ca types elucidation.
- Immuno-cytochemistry (ICH) of Ca types, biomarkers-based approach clinical research, Liquid biopsy technology from cohort clinical trial samples.
- Isolation and identification of CTCs (circulating tumor cells) from blood biopsy – Actively involved in validation study for USFDA certification ongoing.
- Working on LIMS, GDP, GLP in the CLIA, CAP, NABL and ISO accredited/certified laboratory.

✚ 01st Mar, 2013 – 31st July, 2019 (6.5 yrs)

Group Leader | Oxygen Healthcare Res. Pvt. Ltd. (o2h), Ahmedabad, INDIA

✓ **Agile Project Manager**

- End-to-end collaboration for UK based early drug-discovery programs, TC, RFQs, strategy & budgetary planning, financials and revenue tracking, Resource allocation, literature review, planning & execution, preparation of SOPs, etc.
- Team Collaboration Software (GoToMeeting, Skype business, Google Docs, Dropbox, Google Drive, Google Calendar and Outlook).
- More than 10% increase in revenue y-o-y basis consecutively.

✓ **Leadership Skills**

- Top management interface, explore and highlight new business opportunities, team leadership, leveraging team skills through constant training & development, recruitment activities, etc.
- Successfully represented the department in the Novartis Safety Audit, trained fire safety practitioner and first aid, etc.
- Constantly review team 'Performance Metrics' KRA, PMS (performance management system).
- Constant training plan development and education to team – emotional intelligence and behavior, leadership training, operations and planning etc.

Team Leader (1st Apr, 2017 – 31st March, 2019) **2 Years**

Senior Research Scientist (1st Apr, 2016 – 31st March, 2017) **1 Year**

Research Scientist – II (1st Apr, 2014 – 31st March, 2016) **2 Years**

Research Scientist – I (1st March, 2013 – 31st March, 2014) **1.1 Year**

- ✓ **Kinase assays** (e.g. STK38, LMTK3, DYRK1a, CDK2/Cyclin-A, IKK-b inhibitors)
- ✓ **Primary and Secondary screening** of NCE's, hit-to-lead phase optimization
- ✓ **ADME** profiling of NCEs
- ✓ **LC-MS/MS**, In-Vitro & In-Vivo assays, Cell-based assays, Luminescence/Fluorescence assays, ADP and ATP Glo assays etc
- ✓ Successfully represented in the Novartis Safety Audit, Fire safety, First aid etc
- ✓ Reporting CSO and COO, discussing new business opportunities, recruitment activities across departments, bio-waste management etc
- ✓ **Key Skill sets**
 - Foreseeing performance bottlenecks and taking corrective measures

- Maintain and review research documentation/records & SOPs
- Ensure compliance of various quality measures and maintaining appropriate requisite documentations
- Customer-centric relationship, Time management, Team Operations and Supervision
- Developed actively whole portfolio of DMPK/ADME lab set-up at o2h for early drug discovery

✚ **22nd Dec, 2011 – 21st Dec, 2012 (1 Year)**

Postdoctorate Fellow I Piramal Life Sciences Ltd, Mumbai, INDIA

- ✓ *In Vivo* efficacy studies and screening in the Inflammatory disease models (Ear-Edema model, Therapeutic & Semi-therapeutic Collagen Induced Arthritis (CIA) and acute & chronic Colitis model)
- ✓ *In Vitro*: Monocyte/hPBMC assay for Interleukins (IL-6, TNF)

✚ **9th Nov, 2009 – 21st Dec, 2011 (2.2 Yrs)**

Research Scientist I Actis Biologics Pvt Ltd. (R&D), Mumbai, INDIA

- ✓ Receptor-mediated, Targeted Drug-delivery in Hepatocarcinoma (New Drug-Delivery System (NDDS) platform)
Aim: Cell-based assay development and technology validation of the patented platform technology and extend this technology in to animal studies
- ✓ Lenti-Viral vector mediated Gene-therapy for Breast Cancer (sponsored by DBT, Govt. of India)
Aim: To optimize the Transfection and Transduction of Lenti-virus vectors in different Breast carcinoma cells with specific target genes to reduce the MMP-9 production mediated ECM proliferation and controlling cell-cycle regulation

Academic Achievements & Training

- **"Creative Problem Solving & Decision Making Skills"** 1-day certificate classroom course (2019) by Ahmedabad Management Association (AMA), Ahmedabad, India
- **"Leadership Development"** certificate 5-days classroom course (2018) by Ahmedabad Management Association (AMA), Ahmedabad, India
- **"IPR and Pharmaceutical R&D (CCIPR)"** secured 'Grade-B' in online certificate course – 26th December, 2013 by FICCI, under the aegis of Intellectual Property Education Centre (IPEC)
- Qualified **CSIR - UGC (NET) – JRF/LS** in December **2003** (Roll No. 314415)
- Qualified **GATE – 2004** (57.28 percentile) conducted by I.I.T-Delhi (Reg. No. – XL503443)
- Qualified All India Entrance for M.Sc. Biotechnology & admitted at University of Allahabad (2002) conducted by J.N.U, New Delhi, India

Educational Qualifications

Class/Course	College/Institute	Board / University	Year	% Marks/CGPA
Ph.D. (Biotechnology)	C.D.R.I (CSIR-Lab) Lucknow	University of Allahabad	2004 - 2009	Ph. D awarded (20 th Aug. 2010)
M.Sc. (Biotechnology)	Centre for Biotechnology	University of Allahabad	2002 - 2004	68.17 %
B.Sc. ZOOLOGY (Honours)	Gossner College, Ranchi	Ranchi University	1998 - 2002	63.63 %
Intermediate (10+2)	Vivekanada VidyaMandir School,	CBSE	1996 - 1998	57.00 %
High School (Std. X)	Kairali School, Ranchi	CBSE	1996	75.60 %

Publications

- Manisha Nigam, **Vishal Ranjan***, Swasti Srivastava, Ramesh Sharma, Anil K Balapure, "Centchroman induces G₀/G₁ arrest and Caspase-dependent Apoptosis involving Mitochondrial Membrane Depolarization in MCF-7 and MDA MB-231 Human Breast Cancer Cells"; ***Life Sciences* (2008)** 82: 577–590 <http://www.ncbi.nlm.nih.gov/pubmed/18279897>
- Singh N, Nigam M, **Ranjan V***, Sharma R, Balapure AK, Rath SK, "Caspase-mediated enhanced apoptotic action of Cyclophosphamide and Resveratrol treated MCF-7 cells"; ***Journal of Pharmacological Sciences* (2009)** 109: 473-485 <http://www.ncbi.nlm.nih.gov/pubmed/19372630>
- Nigam M, Singh N, **Ranjan V***, Zaidi D, Nigam D, Sharma R, Gupta DK, Sundaram S, Balapure AK, "Centchroman mediated apoptosis involves cross-talk between extrinsic/intrinsic pathways and oxidative regulation"; ***Life Sciences* (2010)** 87: 750-758 <http://www.ncbi.nlm.nih.gov/pubmed/21034746>
- Singh N, Nigam M, **Ranjan V***, Garg VK, Sharma S, Chaturvedi R, Shankar R, Kumar S, Sharma R, Mitra K, Balapure AK, Rath SK, "Resveratrol as an adjunct therapy in Cyclophosphamide-treated MCF-7 and breast tumor explants"; ***Cancer Science* (2011)** 102 (5): 1059-1067 <http://onlinelibrary.wiley.com/doi/10.1111/j.1349-7006.2011.01893.x/abstract>
- Neetu Singh, **Vishal Ranjan***, Deeba Zaidi, Hari Shyam, Aparna Singh, DivyaLodha, Ramesh Sharma, Umesh Verma, Jaya Dixit, Anil K Balapure, "Insulin catalyzes the Curcumin-induced wound healing: An *in vitro* model for gingival repair"; ***Indian J of Pharmacology* (2012)** 44 (4): 26-31 (Cover Page Article) http://www.ijp-online.com/temp/IndianJPharmacol444458-344178_005721.pdf
- Shivani Patel, Palmi Modi, **Vishal Ranjan***, Mahesh Chhabria, "Structure-based design, synthesis and evaluation of 2,4-diaminopyrimidine derivatives as novel caspase-1 inhibitors"; ***Bioorganic Chemistry* (2018)** 78: 258–268 <https://www.sciencedirect.com/science/article/pii/S0045206817309148>

Technical Skill Sets

- Animal Cell-Culture Techniques:**
 - Primary and Secondary Cell-Lines (Adherent and Suspension)
 - Gene therapy:** Lenti-Viral Vector mediated Transient **Transfection** and **Transduction**
 - Compound Screening** for anti-proliferative/-viral activity of in-house developed synthetic drugs
 - Cytotoxicity Assays** - MTS, MTT & SRB, LDH and CV
 - Cryopreservation of Cells**- Classical & Automated Cryo-Med Freezer
- In Vivo studies:** PK study, Balb/c, DBA/1J, C57BL/6, routes of administration, randomization, scoring, Blood/Tissue/Organ collection etc (CIA, Colitis and Psoriasis studies)
- Virology:** Titration, Plaque Reduction assay, CV staining
- LCMS/MS** (Agilent QQQ 6410 and AbSciex 3200QTrap), Gel Electrophoresis, Western blot, UV/Visible, Fluorescence and Luminescence spectrophotometer, Fluorescence microscopy, Flow Cytometry etc
- Molecular Biology techniques:** ELISA, PCR & RT-PCR
- Gamma-Irradiation using Co⁶⁰ source used in **B.A.R.C**, Trombay, INDIA

Awards & Scholarships

- Awarded "**PC Dandia Best Poster Award**" at 41stAnnual Conference on the Indian Pharmacological Society & International Conference on Translational Pharmacology (IPS & ITP-2008), 18th-20th Dec, 2008 at AIIMS, New Delhi, India
- Recipient of **CSIR-Junior & Senior Research Fellowship**(6th Oct. 2004 - 5th Oct. 2009)
- Recipient of Scholarship by the Department of Biotechnology, Government of India, from August 2002 - July 2004

Work Experiences/Summer Internship/Dissertation

- **Organization** : Radiation Biology & Health Sciences Division, Bhabha Atomic Research Center (B.A.R.C), Trombay, INDIA
Position : Summer Internship, M. Sc. (Biotechnology)
Duration : 20th June - 20th August 2003
M.Sc. Summer Project entitled "Study of Oxidative Stress and Apoptosis in Human Breast Cancer Cells and normal human Leucocytes induced by an Ayurvedic Drug".
- **Organization** : Centre for Biotechnology, University of Allahabad
Position : Curriculum dissertation in M. Sc. (Biotechnology), IV Sem
Duration : February, 2004 – June, 2004
M.Sc. Project entitled "Effect on the Peroxidase enzymatic activity of Black Gram plants upon administration of Cadmium as heavy metal toxicity".
- **Organization** : Tissue & Cell Culture Unit, Central Drug Research Institute (CDRI), Lucknow, India
Position : Junior & Senior Research Fellow (CSIR)
Duration : 6th October, 2004 – 5th October, 2009
Ph.D. Thesis entitled "Redox mechanisms in Centchroman mediated antineoplasticity in Human Breast Cancer Cell Lines", with supervisor Dr. Anil K Balapure, Sc 'F'.

Abstract/Research Papers/Conferences/Posters

- Abstract & Poster at: **41st Annual Conference on the Indian Pharmacological Society & International Conference on Translational Pharmacology (IPS & ITP-2008), 18th-20th Dec, 2008** at AIIMS, New Delhi, India; entitled "Centchroman potentiates mitochondrial events leading to oxidative insult in human breast cancer cells". ***Indian J Pharmacology (2008)***, 40 (2): S-51. **Ranjan V***, Nigam M, Zaidi D, Sharma R, Sundaram S, Balapure AK.
(PC DANDIA Best Poster award winner)
- Abstract & Poster at: **41st Annual Conference on the Indian Pharmacological Society & International Conference on Translational Pharmacology (IPS & ITP-2008), 18th-20th Dec, 2008** at AIIMS, New Delhi, India; entitled "Role of MAPKs and oxidative stress in Centchroman induced apoptosis". ***Indian J Pharmacology (2008)***, 40 (2): S-196. Zaidi D, Nigam M, **Ranjan V***, Sharma R, Balapure AK.
- Abstract & Poster at: **12th International Conference on the Interface of Chemistry-Biology in Biomedical Research (ISCBC-2008), Feb 20th-24th, 2008** at Birla Institute of Technology and Science, Pilani-333031 (Rajasthan), India; entitled "Involvement of p53, p21 and Bcl2 Family members in Centchroman induced apoptosis in MCF-7 and MDA MB-231 Human Breast Cancer Cells". Manisha Nigam, **Vishal Ranjan***, Neetu Singh, S Srivastava, R Sharma, AK Balapure.
- Abstract at: **2nd International Symposium on Translational Research on Natural Products & Cancer (Society for Translational Cancer Research), Dec 9th-12th, 2007** at Fariyas Holiday Resort, Lonavala, Mumbai, India; entitled "Novel Human Primary Gingival Fibroblast cell line as a vehicle for evaluating the cybernetics of Curcumin action". Balapure AK, Sharma R, Jaswal KJ, **Vishal Ranjan***, Singh N, Verma UP, Dixit J.
- Abstract at: **2nd Biotech Congress, Dec 18th-22nd, 2006** at Rajiv Gandhi Biotechnology Centre, Nagpur, India; entitled "Non-Genomic events in Centchroman mediated Apoptosis in MCF-7 Human Breast Cancer Cells". Balapure AK, **Ranjan V***, Nigam M, Sharma R.

- Poster presented at: **XXIX All India Cell Biology conference and symposium on Gene to Genome: Environment and Chemical Interaction, Jan 17-20th, 2006** at Industrial Toxicology Research Centre, Lucknow-226001, India; entitled "Induction of Apoptosis in MCF-7 and MDA MB-231 Human Breast Cancer Cells by antiestrogen Centchroman".
Manisha Nigam, **Vishal Ranjan***, S Srivastava, R Sharma, AK Balapure.

Computer Skills

- GraphPad Prism, Harmony 4.9, Mass Hunter, Analyst, MS Office, MS pro, GoToMeeting, Skype business, Google Docs, Dropbox, Google Drive, Google Calender, Outlook

Extra-Curricular

- Blood donation volunteer multiple times
- Was member in the English Editorial Committee for the magazine christened 'BIOVE', Departmental Magazine of M.Sc. Biotechnology, University of Allahabad, India

References

- **Dr. Anil K Balapure**
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