

VINAY VERMA

Specialist

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Key Skills

Small molecules, Protac,
Oligonucleotide, Herbal extract

Flowcytometry (BD Fortessa
II, BD FACS Versa and
Cytoflex5 Beckman Coulter)

AlphaLISA assay

Biochemical assays

Bioassay

Electroporation method for
gene expression

Western blot

TR-FRET and HTFR assays

GPCRs

GLP

GraphPrism, Excelfit

Time management

Communication

Risk assessment

Discussion making

Professional Summary

Life science professional with expertise in pre-clinical drug development, product development, *In-vitro* assays, inflammation, asthma and COPD, oncology disease. I have 12 years of experience in Drug discovery group, GLP facilities and CRO.

Work Experience

Aurigene Pharmaceutical Service Limited (Dr Reddy's group) Hyderabad, 21 December 2020 – till date as Specialist I

- Therapeutic area: Oncology
- New assay optimization and troubleshooting: FACS assay, Elisa, AlphaLisa, cell based assay, electroporation method for gene expression study
- Managing 1-2 scientist for timely archiving project time lines
- Projects costing and proposals preparation
- Member of interview panel for recruiting new candidate

Eurofin Advinus Ltd, Bangaluru, GLP Facility June 2019 – December 2020 as Senior Research Scientist-II

- Expertise in different Immunological assay such as detection of different intra-cellular cytokines (TH-1, TH-2 and IL-17) by Flow cytometry/ELISA/Western blotting
- Well versed with isolation of splenic from mice/rat and studied lymphocytes subpopulation phenotyping by FACS
- Established the PLP induced Encephalomyelitis model
- Project costing, proposal preparation and project report generation.
- Faced Internal and external GLP audits

Special Center for Molecular Medicine, JNU Delhi. December 2018- May 2019 as Research Scientist.

- Studied the effect of compounds on Eryptosis mechanism in human blood using Annexin-V

Dabur Research Foundation, Sahibabad, GLP Facility, June 2017-May 2019 as Principal Research Scientist

- Therapeutic area: Inflammation, Diabetic, Oncology
- Optimized different cell free and cell based *in vitro* assay as per the project requirement.
- Studied the effect of compound on the cell signalling pathway and different protein expression by western blot.

- Studied the effect of test compounds on the inflammatory cytokines level in isolated PBMC as well as in cell lines by Elisa.
- Project costing and timely archiving project time lines.

Daiichi Sankyo India Pvt. Limited, Gurgaon July 2010-January 2017 in Department of Pharmacology as Research Scientist

- Therapeutic area: Asthma and COPD
- Studied the immunological cytokines (TH-1, TH-2 and IL-17) in isolated human PBMCs and in cell lines by ELISA.
- Optimization and screened NCE's in 96 and 384 well format in cell free assay like enzyme assay, Lantha-screen binding assay, TR-FRET assay as well as in cell-based assay for GPCR secondary messenger assay Ca^{++} mobilization and cAMP in over expressing cell line.
- Demonstrated the capabilities to study the protein downstream signaling pathway (phospho and total protein expression) in cell as well as in *ex-vivo* samples
- Evaluated the effect of compounds on mRNA expression level by RT-PCR technique.
- Lab management which includes instrument calibration, chemical inventory maintenance and cell culture maintenance, EHS audit, recording maintenance for internal audit, SOPs and guidelines drafting.

Ranbaxy Laboratory Limited, Gurgaon June 2008-June 2010 in Department of Pharmacology as Research Biologist.

- Therapeutic area: Diabetic, Inflammation
- Screened compounds in different cell-based assay and cell free assay
- Maintenance and cryopreservation of different mammalian cell lines.
- Instrument calibration, SOP and Guideline drafting.

Indian Institute of Integrative Medicine CSIR, Jammu May 2007- May2008 as Project Assistant Level –II under supervision of Dr. Anpurna Kaul, Department of Pharmacology.

- Therapeutic area: Inflammation
- Evaluated the immuno-modulatory activity of herbal extract in cellular immune response and delay type hypersensitivity model, estimation of Lymphocytes-phenotyping CD4+ and CD8+ in blood by Flow-cytometry
- Expertized in handling of Balb/c mice and C57BL/6 mice.

Conferences attended

- GxP Regulations- Exceptions, Challenges and Quality Focus for Global Needs, International conference held at Bengaluru on 5-6 September 2019
- LASA 2016 international conference on Advance in laboratory animal science for modeling human disease held at Bengaluru, on 14 and 15 October 2016
- Airway Diseases: Etiology to Clinic, internal symposium held at Gurgaon, on 24 and 25 February 2012.

Papers

- **Ethnopharmacology aided antiplasmodial evaluation of six selected plants used for malaria treatment in Nigeria;** I.C. Ezenyi, **V.Verma**, S. Singh, S.E. Okhale, B. Adzu; Journal of Ethnopharmacology; 254(2020)
- **Developing selective FPR2 agonist can be a potential approach to treat moderate to severe Asthma;** Senthil A Visaga, Harikesh Kalonia¹, **Vinay Verma**, Sandeep Sinha¹, Shashi Kant Singh¹, Swati Upadhyay, Sudhir Sahdev, Amita Pansari, Rajesh Kumar, Mahadev Bandgar, Narayan Karanjule, Raj Kumar Shirumalla¹, Kaoru Morishita, Ruchi Tandon ; Journal of Clinical Toxicology; 12:510(2022)

Education Qualification

Qualification	School/Institute	Board	Year
P.G Diploma in Clinical Research	Siaram Clinical Research Pvt. Ltd, Bikaner	-	2016
M.Sc Biotechnology	M.M College Modinagar	CCS	2005
B.Sc Group B	Deshbandhu College, Delhi	D.U	2002
12th	Kendriya Vidyalaya, A.F.S Hindan	CBSE	1999
10th	Kendriya Vidyalaya, A.F.S Hindan	CBSE	1997

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References: Upon request

Vinay Verma

Place: Hyderabad

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