



LAXMIKANT CHHIPA

B. Pharm | M. Pharm-Medicinal Chemistry | 25 Years of Experience

A-302, Devpriya-4 Apartment, Behind Urja-Motera Complex, Motera Stadium Road. Motera, Ahmedabad, Gujarat, India. 380005

+91-9898189635

laxmikant_ch@yahoo.com

LinkedIn- <https://www.linkedin.com/in/laxmikant-chhipa-27ab40228/>

Objective: A pivotal professional over 25 years of experience in pharmaceutical organisation; targeting suitable role in Synthetic / Medicinal Chemistry, Integrated Drug Discovery, API Process Development Research and Innovation, Project Management or Supply Chain Management.

AREA OF EXPERTISE

- Synthetic Organic / Medicinal Chemist with wide range of Drug Discovery experience.
- Design and Synthesis of drug-like Novel NCEs for various therapeutic targets.
- Lead Optimization and SAR development.
- Patent Evaluation & establishment of Novelty of NCEs.
- Understanding and interpretation of Biological Data. (In-vitro & In-vivo, DRC, ADME, PK).
- Identification of Impurities & Metabolite of Identified Drug Candidates.
- Process Development, Optimization and Trouble Shooting of Drug Candidate.
- Project Management : Project Initiation, Planning, Execution, Monitoring & control.
- Understanding of Regulatory aspect of NCE Development.
- Knowledge and Handling of various organic chemical reactions.
- Synthesis of 3-5AA small peptide and heterocyclic molecules.
- Understanding of computational data of New Chemical Entities.
- Life Cycle Management : Co-Crystal, Salt, Polymorph development of identified Drug Candidates.
- Technical Documentation, Reports, Protocols Préparation.
- Understanding of disease etiology & Identification of New Biological target to work on.
- Development of New ROS of identified Drug Candidates.
- Support & Data Compilation for Patent Drafting and CMC preparation for IND filling.
- Technical knowledge Sharing with Formulation team, Analytical, IPR, RA-QA team for resolution of technical challenges.
- Departmental CAPEX, Vendor and SOP management.
- Resource and Priority Management

PROFESSIONAL EXPERIENCE



Assistant General Manager

April 2012- March 2023

Medicinal Chemistry-Drug Discovery/NCE Research

Torrent Research Centre (TRC), Gandhinagar. Gujarat. India.

Brief JD: Responsible for managing & supervising the work of group of 25 medicinal chemists along with design, synthesis, isolation, purification, identification, and characterization of a wide variety of heterocyclic compounds having medicinal values. Actively engaged in Design and synthesis of NCEs to identify novel hit or lead as well as their optimization in different therapeutic area like Metabolic disorder, Cardiovascular disorder, COPD, Atopic Dermatitis to identified novel drug candidates.

Literature Search, Patent evaluation, Novelty, and Patentability establishment of NCEs as well as understanding of etiology of human disease related to research project undertaken. Coordination of the activities for chemical development of identified Drug Candidate like scale-up of API for various studies, Process development & route scouting, Identification of Impurities and metabolite of Drug candidate. Ensuring and accomplishment of task by coordinating with the cross functional team to facilitate the project movement. Departmental CAPEX, vendors & SOP management.

Mentoring and training to new joiner / scientists for theoretical and experimental chemistry and building a team.

Scientist- I

April 2007 – March 2012

Medicinal Chemistry-Drug Discovery/NCE Research

Torrent Research Centre (TRC), Gandhinagar. Gujarat. India.

Brief JD: Responsible for managing & supervising the work of group of medicinal chemists along with design, synthesis, isolation, purification, identification, and characterization of a wide variety of heterocyclic compounds having medicinal values.

Engaged in design, synthesis and establishment of novelty and patentability of New Chemical Entities in different therapeutic area. Involved in the process development of the identified novel Hits/Lead candidate. Literature search and understanding of etiology of human disease as well as understanding to get drug like properties of NCEs related to project undertaken.

Mentoring and training to new joiner / scientists for theoretical and experimental organic chemistry/ Medicinal chemistry along with building a team.

Laboratory maintenance with HSE compliance and successful completion of ISO audits.

Research Associate**April 2005- March 2007***Medicinal Chemistry-Drug Discovery/NCE Research**Torrent Research Centre (TRC), Gandhinagar. Gujarat. India.*

Brief JD: Responsible for managing & supervising the work of small group of medicinal chemists along with design, synthesis, isolation, purification, identification, and characterization of a wide variety of heterocyclic compounds (New Chemical Entities) having medicinal values and proper documentation. Literature search, patent evaluation and understanding of etiology of human disease related to project undertaken.

Executive Scientist**December 1997- March 2005***Medicinal Chemistry-Drug Discovery/NCE Research**Torrent Research Centre (TRC), Gandhinagar. Gujarat. India.*

Brief JD: Design, synthesis, isolation, purification, identification, and characterization of a wide variety of heterocyclic compounds (New Chemical Entities) having medicinal values. Spectroscopic data generation of new chemical entities belong to various heterocycles in different therapeutic area. Chemistry exploration, handling of various organic reactions, scale-up of NCEs for various studies and proper documentation. Proper documentation, NCEs data base management, Literature search, and presentation in a group.

EDUCATION**Bachelor of Pharmacy (B. Pharm)**

Dr. Harising Gaur University, Sagar.

*Madhya Pradesh. India.*Year: 1991-1995 (1st Division)**GATE-95 (AIR 29)**

AICTE Government Fellowship

Year: 1995

(Percentile-97.24)

**Master of Pharmacy (M. Pharm)**

Pharmaceutical Chemistry

*University Institute of Pharmaceutical**Sciences, Panjab University, Chandigarh*Year: 1995 – 1997 (1st Division)**Certification Program on Patent Law***NALSAR University of Law**Hyderabad, Andhra Pradesh. India*

Year: 2006

Higher Secondary School Examination

(10+2)

*Govt. Higher Secondary School, M.P. Board*Year: 1990 Grade- (1st Division)**PROJECTS & RESEARCH HIGHLIGHTS**

- Identified TRC150094, a T2 functional analogue as a drug candidate which is in phase-3 clinical trial for CVS Risk reduction.
- Identified, TRC160334, a HIF hydroxylase inhibitor as a drug candidate which is currently in phase-2 clinical trial for management of mild to moderate Ulcerative Colitis.
- Identification & investigation of Novel DP-2 Antagonist for management of Atopic dermatitis.
- Identification & investigation of novel DPP-4 inhibitor for management of Type-2 Diabetes.
- Identification of small molecule PCSK9 inhibitor for management of Hypercholesterolemia.
- Identification of dual small molecule (δ/γ) novel PI3 Kinase inhibitor for management of COPD/Asthma.
- Identification of Direct Novel AMPK activator for management of Metabolic disorder.
- Identification of Novel $\alpha_4\beta_7$ integrin receptor antagonist for management of Inflammatory Bowel disease.
- Identification of TGR5 agonist for management of Diabetes.
- Identification of Novel LXR agonist for management of Atherosclerosis.
- Identification of Tepatadol salt with desired aqueous solubility.
- Identification of small molecule as selective autophagy inducer.

KEY RESEARCH COMPETENCIES

Patents

- : Laxmikant Chhipa; Shitalkumar Zambad; Ramesh C.Gupta; Davinder Tuli; Ashok Kasundra; Siralee Munshi; Amir M. Siddiqui; Subrat Kumar Bhattmisra; Chaitanya Dutt; Vijay Chauthaiwale. International Publication Number: **WO2008/149379**; Publication Date: 11.12.2008.
- Fused Thiazolo and Oxazolo Pyrimidinones: Sanjay Srivastava; Laxmikant Chhipa; Ramesh C.Gupta; Shailesh Deshpande; Anita Chaudhari; Anookh Mohanan; Chaitanya Dutt; Vijay Chauthaiwale; Murali Badanthadka; Prashant, G Jamadarkhana; **WO2011/045811**; Publication Date: 21.04.2011.
- Use of a Thiazolo Pyrimidinone for The Treatment of Inflammatory Bowel Disease: Chaitanya Dutt; Vijay Chauthaiwale; Ram Gupta; Shitalkumar Zambad; Shailesh Deshpande; Jignesh Kotecha; Ramesh C.Gupta; Sanjay Srivastava; Laxmikant Chhipa; Jaya Abraham; **WO2014/184631**; Publication Date: 20.11.2014.
- Novel Indazole Compounds: Dutt Chaitanya; Joshi Deepa; Ramesh C.Gupta; Chhipa Laxmikant; Panda Sudhanshu; Jagtap Vikrant; Mandhare Appaji; Deshpande Shailesh; Munshi Siralee; Gupta Ram; Abraham Jaya; Mishra Vivek; **WO2018/042377**; Publication Date: 08.03.2018.
- Methods of Producing Pyrazole Compounds: Ramesh C.Gupta; Singaravel Mohan; Chhipa Laxmikant; Kasundra Ashok; **WO2020/058945**; Publication date: 26/03/2020.

Symposium & Workshop Attended

- International Symposium on "Progress in Drug Discovery and Development Science" January 17-19th, 2001 at Indian Institute of Science, Bangalore, India.
- AAPS/FIP/APSTJ/FPTI and The Indian Pharmaceutical Association (IPA) Conference on "Drug Discovery and Development: Challenges and Opportunities for India" held on February 2005, Mumbai.
- Workshop on "Process Chemistry in the Pharmaceutical Industry: Challenges in an ever-Changing Climate" held on August 20-21th, 2008, at TRC, Ahmedabad, India.
- 13th ISCB International Conference on "Interplay of Chemical & Biological Sciences: Impact on Health and Environment" held at University of Delhi on February 26th-1st March, 2009,
- Certificate as a Trainer on "Training and Development of Torrentian for the year 2013-14, Ahmedabad, India.
- 8th Ramanbhai Foundation International Symposium on "Advances in New Drug Discovery and Development" held on February 2-4th, 2017 at Gujarat Convention and Exhibition Centre, Ahmedabad, India.

Journal/Article Publications

- TRC150094, a novel functional analog of iodothyronines, reduces adiposity by increasing energy expenditure and fatty acid oxidation in rats receiving a high-fat diet Federica Cioffi, Shitalkumar P Zambad, Laxmikant Chhipa, Rosalba Senese, Rosa Anna Busiello, Davinder Tuli, Siralee Munshi, Maria Moreno, Assunta Lombardi, a, Vijay Chauthaiwale, Chaitanya Dutt, Pieter de Lange, Elena Silvestri, Antonia Lanni, Fernando Goglia; **FASEB J. 2010, 24(9), 3451-61.**
- Treatment with a Novel Hypoxia-Inducible Factor Hydroxylase Inhibitor (TRC160334) Ameliorates Ischemic Acute Kidney Injury. Prashant Jamadarkhana, Anita Chaudhary, Laxmikant Chhipa, Amita Dubey, Anookh Mohanan, Ramesh C Gupta, Shailesh Deshpande; **Journal of Nephrology, 2012; 36(3), 208-18.**
- Substituted 4- hydrazinopiperidine derivative as Novel Dipeptidyl Peptidase IV inhibitors: Ramesh C Gupta, Laxmikant Chhipa, Appaji B Mandhare Novel compounds, Shital K Zambad, Vijay Chauthaiwale, Sunil S Nadkarni and Chaitanya Dutt; **Bioorganic & Medicinal Chemistry Letters, 2009 Sep 1; 19(17): 5021-5.**
- Design and Synthesis of Novel Thiazolidine and Pyrrolidine Derivatives as DPP-IV Inhibitors : Ramesh C. Gupta, Laxmikant Chhipa, A. B. Mandhare, Sunil S. Nadkarni, Deepa Joshi, Shital Zambad, Padmaja Pathak, Vijay C. Chauthaiwale, C. Dutt at Med Chem India Conference at Hyderabad, April 13, 2007.

Management

- Strategic Implementation of GMP, Technical and Regulatory documentation.
- Manage the R&D efforts and resources to explore and establish robust NCE development.
- Alignment and coordination with cross-functional départements eg., QA, IPR, ADME-PK, Analytical to achieve the goals. Project Management & Timeline Setting.
- Handling and review of laboratory investigations for data/OOS result.
- HSE Audits/ ISO Safety Audits Management.
- Management of CAPEX, project scope, schedule, and costs to ensure all remain on track with financial performance targets.
- Training Program on "Inspiring and Executing innovation" held on October 18-20th, 2011, at Tata Management Training Centre (TMTTC), Pune, India.

LANGUAGES & SKILLS

LANGUAGES



English



Hindi



Other Languages



Work Related



Behavioral



Management



MS
Office/Software

SKILLS

COMPETENCIES / ABILITIES

- Good verbal and written communication skills.
- Team player and driven to deliver.
- Ability to prioritize, organize work load and manage time successfully.
- Proficient in writing and reviewing technical aspect.
- Ability to work in a fast-paced organization with diverse project teams and personnel.
- Knowledge of interpersonal skills.
- Problem solving and critical thinking.
- Innovative, Proactive and Ambitious.

ABOUT ME

- **Name:** Laxmikant Chhipa
- **Father's Name:** Shri Balaprasad Chhipa
- **Mother's Name:** Smt. Gayatri Bai
- **Date of Birth:** 07th Dec 1972
- **Marital Status:** Married
- **Birth Place:** Gadarwara, Madhya Pradesh
- **State:** Madhya Pradesh
- **Nationality:** Indian

REFERENCES

- **Name:** Dr. Ramesh Chandra Gupta
- **Designation:** VP, Product Development (Ret.)
- **Company Name:** Torrent Research Centre, Ahmedabad, Gujarat.
- **email:** rcgupta88@yahoo.co.in
- **Name:** Dr. Jignesh Kotecha
- **Designation:** General Manager, Biopharma
- **Company Name:** Torrent Research Centre, Ahmedabad. India.
- **email:** jignesh.kotecha@gmail.com

Place: Ahmedabad

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