

BRIEF CURRICULUM VITAE & LIST OF PUBLICATIONS

Job Objective

A challenging Preclinical Development / Research Management position with a high-growth research oriented pharmaceutical organization specializing in screening of NCEs in *in vitro* and *in vivo* preclinical models and testing of other pharmaceutical product as per standards.

Responsibilities

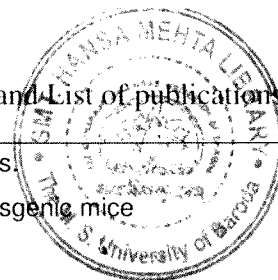
I am working as **Associate Research scientist** in Zydus Research Centre, responsible for the standardization of various existed anti-inflammatory models and also development of various models for the primary screening of various therapeutic targets. I used my scientific and technical skills to develop new models for the new targets. I took the responsibility for analyzing and interpreting final results and prepare reports. I also participate in the brain storming and discussion for the selection of the therapeutic targets for inflammation. I also help my team members in times of difficulty in troubleshooting the experiment and take care that the whole process is carried out efficiently and effectively on time.

Professional Experience

- More than **eight years laboratory experience** in the field of inflammation and developed different models for arthritis, asthma, Psoriasis, inflammatory bowel disease and oncology research in Dept of pharmacology at Zydus Research Centre.
- Standardization and setting up various established animal models for the primary and secondary Pharmacodynamic anti-inflammatory effect in Dept of Pharmacology.
- Experienced in screening of various anti-inflammatory and anti-platelet effect of various formulation obtained from our Formulation department.
- Substantial experience in research techniques and optimization of animal models related to preclinical screening of NCEs which is summarized as follows:

(1) Development of various acute and chronic inflammation models for different therapeutic indications: Experience in development and assessment of various inflammation Models in rodents such as

- I. Carrageenan induced Paw Edema
- II. LPS induced Endotoxemia
- III. Collagen induced Arthritis (CIA)
- IV. Adjuvant induced Arthritis (AIA)



- V. Streptococcal Cell Wall (SCW) induced Arthritis
- VI. Spontaneous arthritis model in TNF-alpha transgenic mice
- VII. DSS and TNBS induced Ulcerative Colitis
- VIII. Oxazolone induced Psoriasis
- VIII. Sephadex induced Lung inflammation
- IX. Ovalbumine induced Asthma

(2) Development of Pain models: Experience in development and assessment of various Behavioral Pain Models in rodents such as

- X. Neuropathic Pain: CCI induced Neuropathic Pain
- XI. STZ induced Diabetic Neuropathic Pain
- XII. Inflammatory Pain (carrageenan, and CFA induced inflammatory Pain)
- XIII. Formalin induced nociception.

(3) Development of models for metabolic disorder: Experience in development of animal models and efficacy studies of NCEs in models of Obesity, Diabetes and Osteoporosis such as

- XIV. Monogenic Models of Diabetes: ob/ob, db/db, fa/fa and ZDF
- XV. Diet induced Obesity (DIO) models
- XVI. Feed and Sucrose intake behavior study
- XVII. STZ induced Diabetes
- XVIII. Glucose Tolerance Test
- XIX. Ovariectomized rat model for osteoporosis
- XX. Parathyroidectomized rat and mice model

(4) In-house development of Bioassays for potency calculation for Zydus products (cost saving strategy and data authentication): Support to the novel drug delivery system (NDDS) and F & D.

- a. Developed in-house five point bioassay for Glucagon as per United State Pharmacopoeia (USP) under strict GLP condition. Assay was optimized using isolated hepatocyte from rats and potency ratio as well as statistics is performed in PLA2.0 software.
- b. Models Primary screening of antiplatelet NCEs in in vitro assay in washed platelets of human, rats, guinea pigs etc. using different aggregating agents such as ADP, arachidonic acid, thrombin, TRAP and collagen in high-throughput 96-well plate assay (light transmission method) and % aggregation is calculated.
- c. Evaluation of anti-inflammatory effect of various formulations. (Giving scientific input and contribute for the development of novel formulation.

(5) Miscellaneous expertise

- a. Handling of animals such as SAM, C57 mice, db/db mice, ob/ob mice, BALB/c mice, SD rats, Wistar rats, fa/fa rats, hamsters, guinea pigs, rabbits etc.

Brief CV and List of publications

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- b. Dosing of animals by different routes such as oral, i.v., i.p., s.c., i.m. etc.
 - c. Survival and non-survival surgeries on animals for developing animal models of disease. (Ovariectomy, Parathyroidectomy, CCI)
 - d. Isolation of Peripheral Blood Mononuclear Cells
 - e. Platelet aggregation assay
 - f. Human whole blood assay
 - g. ELISA Assays and troubleshoot the problem associated with ELISA
 - h. Experience for SYBR green based expression studies by isolating mRNA from adipose and aortic tissues using RT-PCR. (PhD related work).

Strength

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- Strong ability to work in teams
 - Enthusiastic having purposeful thinking with positive bent of mind, open and approachable, eager to extend cordial relationship.

Management

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- Currently working as Research Scientist in pharmacology department.
 - Managed research projects and coordinated with team members and also managed other activities like presentation, meeting co-ordination etc.
 - Managed and developed bioassays in-house to reduce the cost for molecule/product development.
 - Supervised M.Pharm. Project trainees for their Thesis and Lab projects.
 - Involved in planning and conducting the studies, data interpretation, and preparation of report.
 - Organized, take-charge professional with exceptional follow through abilities and detail orientation; able to plan and oversee projects from concept to successful conclusion.
 - Demonstrated ability to efficiently prioritize a broad range of responsibilities in order to achieve maximum level of operating effectiveness.
 - Expertise in lab research, data collection/analysis and project management.
 - Extensive experience working with cross-functional scientific and research teams.
 - Active player of international collaborated research programmes.

Education

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- Ph.D., Pharmacology, Maharaja Sayajirao University, Vadodara. (Thesis submission will be done soon).
 - M.Pharm. Pharmacology, J.S.S. College, Ooty, M.G.R Medical University, Chennai. 2002
 - B.Pharm. Pharmacy, Seemanta Institute of Pharmaceutical Sciences, Utkal University, 1998.

List of Publications and Presentations

Publications:

- (1) **Jogeswar Mohapatra**, Manoranjan Sharma, Satinder Singh, Abhijit Chatterjee, Prabodha Swain, R. Balaraman, Pankaj R. Patel, Mukul R. Jain; Sub-therapeutic dose of pioglitazone reduces expression of inflammatory adipokines in db/db mice", *Pharmacology* 2009; 84:203-210. (Impact Factor- 1.89).
- (2) **Jogeswar Mohapatra**, Manoranjan Sharma, Satinder Singh, Abhijit Chatterjee, Prabodha Swain, R. Balaraman, Pankaj R. Patel, Mukul R. Jain; Involvement of adipokines in rimonabant mediated insulin sensitivity in ob/ob mice", *Journal of Pharmacy and Pharmacology* 2009; 61:1493-1498. (Impact Factor- 1.71).
- (3) Srihari P, Dutta P, Rao RS, Yadav JS, Chandrasekhar S, Thombare P, **Mohapatra J**, Chatterjee A, Jain MR. Solvent free synthesis of 1,5-disubstituted tetrazoles derived from Baylis Hillman acetates as potential TNF-alpha inhibitors. *Bioorg Med Chem Lett*. 2009;19:5569-5572. (Impact Factor- 2.53).
- (4) **Jogeswar Mohapatra**, Manoranjan Sharma, Aviseka Acharya, Gaurav Pandya, Abhijit Chatterjee, R. Balaraman, Pankaj R. Patel and Mukul R. Jain. Retinol Binding Protein-4 and its possible role in cardiovascular complications. *British Journal of Pharmacology* (**Communicated**)
- (5) Jignesh Nagar, **Jogeswar Mohapatra**, Manoranjan Sharma, Malik Umar, Gaurav Pandya, Praful Patel, Abhijit Chatterjee and Mukul R. Jain Dexamethasone maintains lung integrity in sephadex induced lung inflammation model: A possible role of TIMP-3. *International Archives of Allergy and Immunology* (**Communicated**)
- (6) **Jogeswar Mohapatra**, Manoranjan Sharma, Aviseka Acharya, Gaurav Pandya, Abhijit Chatterjee, R. Balaraman, Pankaj R. Patel and Mukul R. Jain. Aberrant activation profile of cytokines and toll like receptor-4 in an animal model of type 2 diabetes. (*Under process*)
- (7) **Jogeswar Mohapatra**, Manoranjan Sharma, Aviseka Acharya, Gaurav Pandya, Abhijit Chatterjee, R. Balaraman, Pankaj R. Patel and Mukul R. Jain. Adipogenic signaling in mice white adipose tissue: Modulation by inflammatory cytokines. (*Under process*)

Presentations:

- 1) Oral presentation (PS-26): **Jogeswar Mohapatra**, Jignesh Nagar, Manoranjan Sharma, Gaurav Pandya, Abhijit Chatterjee, Balaraman R, Mukul R Jain. "Sub-therapeutic dose of Thiazolidinediones reduces obesity related inflammation in adipose tissue" in The Ramanbhai Foundation 4 th international symposium on Current Trends in Pharmaceutical Sciences "Advances In Cardiometabolic Research-Basic Science And Clinical Aspects" (2009) (**Nominated for best poster presentation**)

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- 2) Poster Presentation (PS25) : **Jogeswar Mohapatra**, Vipin Dhote, Amit Joharapurkar, and Mukul R. Jain. "Peripheral blockade of CB1 receptors reduces LDLc by stimulation of thyroid hormone activity" in The Ramanbhai Foundation 4 th international symposium on Current Trends in Pharmaceutical Sciences "Advances In Cardiometabolic Research-Basic Science And Clinical Aspects" (2009).
- 3) Poster Presentation (PS24) **Jogeswar Mohapatra**, Umar Malik, Manoranjan Sharma, Gaurav Pandya, Abhijit Chatterjee, Balaraman R, Mukul R Jain. "Effect of rimonabant on expression of adipokines in ob/ob mice" in The Ramanbhai Foundation 4 th international symposium on Current Trends in Pharmaceutical Sciences "Advances In Cardiometabolic Research-Basic Science And Clinical Aspects" (2009).
- (4) Poster Presentation (PS35) : Manoranjan Sharma, Jignesh Nagar, Umar Malik, **Jogeswar Mohapatra**, Abhijit Chatterjee, Mukul R Jain. "A Comparative study of marketed GR modulators on their effects versus side effects" in The Ramanbhai Foundation 4 th international symposium on current trends in pharmaceutical sciences "Advances In Cardiometabolic Research-Basic Science And Clinical Aspects" (2009).
- (5) Poster Presentation: Kanoje VM, **Mohapatra J**, Patel BR, Shind UA, Lohray VB, Jain MR "Anti-inflammatory, Analgesic and Ulcerogenic Activity of Various NSAIDs: Comparison with Their Cyclooxygenase Selectivity" in The Ramanbhai Foundation 1st international symposium (2003).

Achievements

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- 2010- Promoted as Research Scientist
 - 2008-Promoted as Associate Research Scientist (Consecutive third promotion).
 - 2007-Promoted as Senior Research Associate.
 - 2006-Promoted as Research Associate
 - All the *In vivo* work done related to ZY11 which is currently in phase II trial.

Training and Memberships

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- Participated in the one day regional workshop " Role of CPCSEA in education and Research" of Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA) held at Nirma University, Ahmedabad.
 - Participated in the "Seminar on Modern Laboratory techniques" held at Gujarat cancer and Research institute, Ahmedabad.
 - One day GLP training by international trainer, Dr. Dent.
 - Life Member of "Indian Pharmacological Society (IPS)"
 - Undergone "Smart Manage", a three day training workshop on personal effectiveness

Computer Skills

Brief CV and List of publications

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- Operating systems: Windows XP, Window 2000 Professional.
 - Business software: MS Office 2003, Graph Pad prism 4.0 (for statistical analysis of biological data), PLA2.0 (parallel line assay software for three point bioassay).

Research Interest

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- Preclinical screening of NCEs using relevant animal models based on cardiovascular targets.
 - Development of new techniques and animal models for new projects as and when needed.

Personal Details

Name	:	Jogeswar Mohapatra
Father's Name	:	Narasingh Mohapatra
Date of Birth	:	25 th Nov, 1975
Nationality and Religion	:	Indian and Hindu
Permanent address	:	Malisahi, P.O: Ogi, Dist: Angul, Orissa (India)
Address for Correspondence	:	A/101, Sector-3, Sun City, Bopal Ahmedabad-380058 Gujarat (India)
Languages Known	:	English, Hindi, Oriya (Reading, Writing and Speaking)
Marital Status	:	Married