

## Bio-data

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<b>Name</b>	: R. Mahesh
<b>Sex</b>	: Male
<b>Date of Birth</b>	: 7 <sup>th</sup> May, 1965
<b>Qualification</b>	: M.Pharm., Ph.D
<b>Designation</b>	: Professor
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<b>Residence</b>	: House No. 147, Shiv Ganga Marg, Birla Institute of Technology & Science, Pilani, Pilani Campus, Vidya Vihar, Rajasthan- 333031, India
<b>Year of award of Doctoral degree</b>	: October, 1997
<b>Subject Expert &amp; Research Areas</b>	: <b>Medical Chemistry and Pharmacology:</b> <u>Neuropsychopharmacology</u> -Depression, Anxiety, Alzheimer's & Parkinson's Diseases, Depression Co-morbid with Metabolic Disorders <u>Malaria</u>

## Detailed Bio-Data

### Teaching and Research Experience

#### a. Teaching:

Duration	Institution	Courses taught and introduced*
1989 to date	BITS, Pilani	<u>First Degree (Under-graduate)</u> Medicinal Chemistry Chemistry of Synthetic Drugs* Applied Pharmaceutical Chemistry* Instrumental Methods of Analysis Bioethics & Biosafety* Application of Biomedical Instrumentation Techniques in Healthcare* <u>Higher Degree (Post-Graduate)</u> Advanced Medicinal Chemistry* Computer Aided Drug Design* Advanced Pharmacology* Molecular Biology and Immunology* Screening Methods & Techniques in Pharmacology* Fermentation & Biotechnology* Disinfection and Sterilization Clinical Pharmacy and Therapeutics*

#### b. Research:

Duration	Institution	Particulars of work done/Area
1989 to date	BITS, Pilani	<u>Medicinal Chemistry and Neuro Psycho-pharmacology:</u>  Design, synthesis and Neuro-Psychopharmacological investigations pertaining to serotonergic modulators with special emphasis on depression and co-morbid disorders such as hypertension, diabetes, anxiety and obesity.

**Academic Designations Held ( 1989 till date):**

2010 - till date	Professor
2005 – 2010	Associate Professor
2000 – 2005	Assistant Professor
1989 – 2000	Lecturer
Post Ph.D. Experience ( since Oct 1997)	~ 22.5 years
Teaching, Research Experience (since July,1989)	~ 30 years

**Administrative Experience:**

1	Dean, Faculty Affairs Division	May 2011 – May 2018
2	Chief, Community Welfare and Societal Development Unit	August 2010 – September 2012
3	Head – Department of Pharmacy	August 2002 - July 2010
4	Co-ordinator/In-Charge, Central Analytical Laboratory (CAL)	Nov 1998 - July 2010
5	In-Charge, Central Animal Facility	~March 2005 – July 2010
6	Resident Warden- Boys Hostel	July 1995- July 2005
7	Student Welfare Division - Nucleus member of the Division	July 1996 – April 2008
8	Academic Registration and Counselling Division	July 1989 - July 1996

*Responsibilities and activities related to some of the aforementioned administrative functions are given below.*

**Dean, Faculty Affairs Division (FAD)**

- Responsibilities as Dean of Faculty Affairs included creation of office of Faculty Affairs as well as introducing and streamlining various processes and procedures, as given below.
- Faculty Appointments: tenured -on-campus, off campus; non-tenured-on-campus, off-campus. Creation of complete Recruitment Process cycle protocol in association with a RPO – for both on-campus and off-campus tenure track faculty recruitment for the 3 campuses in India.

- Appointment of Non-tenured (short-term) faculty – processes and related guidelines
- Revision of pay structure and removal of disparities in pay.
- Guidelines and procedures related to exposure of faculty to universities abroad
- Guidelines and procedures related to immersion of faculty in industries in India to enhance faculty- industry engagement
- Guidelines related to the appointment of Guest Faculty, DST-INSPIRE fellows at BITS campuses
- Revision of policies related to Medical reimbursements, Institutional support for staff and staff spouse Children Education.
- Creation of faculty induction kit for new joiners
- Implementation of Annual performance Appraisals for faculty and related procedures.
- Guidelines for creating Chair Professorships, OPERA awards to attract and retain senior and new faculty, respectively.
- Faculty extensions, promotions, regularization, renewal of appointments and related issues, identification of potential faculty at senior levels through consultants.
- Dubai campus: - streamlining and implementation of faculty appraisals, addressing faculty issues with creation of new pay structure, employment terms and conditions, benefits, promotions, faculty recruitment process
- Off-Campus programmes: Streamlining the recruitment process, re-designations of existing faculty in line with new positions, creation of practice track for faculty not involved in research, streamlining the process of faculty industry immersion process
- Creation of Faculty Affairs Division Website with all information associated with the above and population of information including off-campus and non-teaching staff- appointments, policies, guidelines, opportunities, appraisals, others. (<http://www.bits-pilani.ac.in/university/fad/Policies>)

#### **Chief, Community Welfare and Societal Development Unit (CWSDU)**

- a) Streamlined house allotment policy and guidelines and made allotments transparent.
- b) Involved in renovation of several quarters
- c) Infant Care Centre (currently rechristened as Blossoms Kids Zone) was renovated and upgraded
- d) Medical Centre and Medical Shop were renovated and redesigned respectively, with addition of 3 new rooms in Medical Centre with facility of monitoring, observation rooms

with beds and related infrastructure, facilitated visit of specialists, enhanced testing procedures with new equipments.

- e) Involved in introducing “best performer Awards” for non-teaching staff, related procedures.
- f) Facilitated procurement of new Critical Care Ambulance, body freezer and new digital X-ray machine for local hospital.
- g) Introduced a car pool scheme for students and staff and circular bus transport within campus during new admission reception of reporting students.
- h) Conducted “Passport Mela” for students, staff and their family members as well as their issue, coordinating with Regional Passport Office twice.
- i) Health Camps, Pollution check for all vehicles in campus were conducted.
- j) Medical Centre registration and Medical Shop billing procedures were upgraded.
- k) Involved in facilitating issue of Aadhar Card by organizing camp within campus.
- l) Facilitated creation of 2 new parks for children near teaching and non-teaching staff quarters with play equipments.
- m) Facilitated remodeling of BITS-CO-OP stores Vegetable shop, with provision car parking facility.
- n) Participated and provided inputs for project “Parivarthan” as Member, User Council.

**Head, Department of Pharmacy (activities involved in brief other than routine):**

- a) Served as Head of the Department for eight years
- b) Member of several committees such as Senate, Recruitment, Research Board, BITS Co-operative stores, Selection, Institutional Animal, Human Ethics, Library, Admissions, etc.
- c) Member, organizing committee for several national and international seminars and conferences.
- d) Renovated most of the B.Pharm. and M.Pharm. Laboratories with UGC-DRS SAP-Level- I and Level – II (five years each) fund support through proposals.
- e) Obtained DST-FIST support for up-gradation of laboratory facilities with new equipments.
- g) Curricular Development:
  - Involved in introducing a new programme **Master’s in Public Health** jointly offered with Bio-Sciences Group and courses for the degree (was deputy-coordinator and later co-ordinator for the programme) with funded support from proposal sanctioned by UGC under “Innovative New Programmes” scheme.
  - Involved in developing several courses at the first degree as well as higher degree level including programme structure for M.Pharm. With specializations in Pharmaceutics and Medicinal Chemistry.

- Standardized animal models for the evaluation of co-morbid depression treatment resistant depression namely:
  - a) olfactory bulbectomy in rats and
  - b) traumatic brain injury models that mimic human depression state.

### **Co-ordinator, Central Analytical Laboratory (CAL)**

- a) Added new equipments such as HPTLC, HPLC's, moisture balance, analytical balances, Brookfield viscometer, stability chambers, visual melting range apparatus, etc. with funding from various sources.
- b) Developed Standard Operating Procedures for all analytical equipments in CAL.
- b) Updated the Laboratory Experiment Instruction Manual for all experiments for the course Instrumental Methods of Analysis

### **In-Charge, Central Animal Facility**

Conceptualized, designed, created the new Central Animal Facility with Institutional support including infrastructure development for teaching and research in all relevant disciplines of the Institute. *(Currently houses several small animals for research with CPCSEA approval for housing as well as breeding licenses).*

### **Student Welfare Division (SWD)**

- a) Nucleus member of Student Welfare Division for 15 years- involved in several developmental activities such as automation of student dues, issue of certificates, standardization of procedure for first degree reception, health club and student's activity centre (SAC) development, etc.
- b) In-charge- processing and member of scholarships committee of Institute's merit-cum-means scholarships for several years – involved in streamlining and automation of the process.
- c) In-Charge of Recreational Activities Forum – Streamlined all R.A.F. activities and procedures, developed assets.
- d) Involved in the design and development of squash and badminton courts at Student Activities Centre.

### **Academic Registration and Counselling Division (ARCD)**

- a) In-Charge, substitution and withdrawal from courses since joining as nucleus member of Academic Registration and Counselling Division and later-
- b) In-Charge, Registration, which includes Registration of students in programmes of all programmes of the Institute.

**Projects Details as Principal Investigator/Co-Investigator (ongoing / started/ completed in the last 5 years)**

1. Synthesis and pharmacological evaluation of novel phosphodiesterase 4 inhibitors for their anti-depressant and anxiolytic potential (DBT, Rs. 51.69 Lakhs; three years, Completed March 2013)
2. Novel Neuro-Pharmacological Agents for the Treatment of Depression, Anxiety, Cognitive Dysfunction and CCIE: Design, Synthesis and Screening of Potential Serotonergic Modulators (ICMR, Rs. 31.20 Lakhs; 3 years, Completed Dec 2013)
3. International malarial research consortium for the development of novel classes of antimalarials, Indo-Canadian DBT Project (Indo-Canadian Joint Research Consortium on Anti-Malarials; DBT ; Rs, 35.50 Lakhs; three years, Phase-I; Completed Sept 2013)
4. International malarial research consortium for the development of novel classes of antimalarials, Indo-Canadian DBT Project (Indo-Canadian Joint Research Consortium on Anti-Malarials; DBT ; Rs, 21.86 Lakhs; two years, Phase-II; Completed FY 2016-17)
5. Infrastructural development of the department (level II) (UGC Rs. 72 Lakhs; five years) - Deputy Co-ordinator.
6. Design and Synthesis of Novel Agents for the Management of Rheumatoid Arthritis, (UGC, 2010-13, 11.98 Lakhs, three years, Completed August 2013), Co-Investigator.

Besides the above, few minor research projects have been completed in the past.

As head of the Department, was instrumental in submitted proposals for upgrading Departmental infrastructure for research and academics through UGC –DRS-SAP Level I and II, DST –FIST Level I and II. Funds received have been utilized for enhancing research equipments assets. Pharmacy laboratories were upgraded with additional funds of Rs. 40.00 lakhs obtained from UGC for infrastructural development over 2 years.

**Patents**

1. Radhakrishnan Mahesh, Muthu Venkatesh Sudali '*PDE4 inhibitor compounds for treating anti-depressant and anxiolytic related disorders*', - Application No. 1290/DEL/2014 dated 15/05/2014 (Patent Pending)- FER filed Jan., 2020
2. Sushil Kumar Yadav, Mahesh Radhakrishnan, Vishal Saxena – '*Non-enzymatic method for large scale isolation of  $\beta$ -casein from milk*', - Application No. 201811018301, dated 16th May, 2018 (Patent Pending).
3. Sushil Kumar Yadav, Mahesh Radhakrishnan, Vishal Saxena- : '*A Method for determining A1/A2 genotype of milch animals*',- Application No: 201911018953, dated 13<sup>th</sup> May, 2019 (Patent Pending)

### **Awards and Honors:**

- DBT, ICMR and APTI Sponsored National Conference : Best Poster (1<sup>st</sup> Prize), 2016
- NIPICON International Conference : Best Poster (II<sup>nd</sup> Prize), 2014
- Pharmanext (AIPER) : Best Poster, 2012
- Indian Pharmaceutical Association : Best Poster (II<sup>nd</sup> Prize), 2012
- Indian Pharmacological Society International Convention : Best Poster (Neuro Pharmacology), 2011
- Indian Pharmacological Society International Convention : PC Dandiya Award, 2011
- Assoc. of Pharm. Teachers of India Conference : Best Poster, 2009
- Indian Pharmacological Society International Convention : Best Poster, 2008
- Indian Pharmaceutical Congress Annual Convention : Best Paper, 2005

➤ **Best Published Paper Award (Assoc. of Pharm. Teachers of India Conf. 2014)**

Prof. Duggirala Visweswaram & Prof. Sreemantalu Satyanarayana Award  
(Best published paper in Ind. J. Pharm. Edu. and Res. - Pharmacology)

➤ **Best Published Paper Award (Indian Pharmacology Society Conf. 2013)**

NN Dutta Prize (Best Published Paper in Indian Journal of Pharmacology)

➤ **Best Published Paper Award (Assoc. of Pharm. Teachers of India Conf. 2012)**

Prof. Duggirala Visweswaram & Prof. Sreemantalu Satyanarayana Award  
(Best published paper in Ind. J. Pharm. Edu. and Res. - Pharmacology)

➤ **Best Published Paper Award (Assoc. of Pharm. Teachers of India Conf. 2011)**

Prof. Duggirala Visweswaram & Prof. Sreemantalu Satyanarayana Award  
(Best published paper during the year in Ind. J. Pharm. Edu. and Res. - Pharmacology)

### **Thesis Guided:**

**Ph. D:**            **Completed: 12**  
( 5 in Medicinal Chemistry;  
6 in Pharmacology  
1 in Veterinary Pharmacology)

- Doctoral Advisory Committee member for several Ph.D. candidates



Details of Ph.D. thesis guided till date:

S.No.	Name of Candidate	Thesis Title	Area	Start of Ph.D.-Year of Award	Status
1	Venkatesha Perumal R	Design Synthesis and pharmacological evaluation of novel serotonergic 5HT3 receptor antagonist as potential agents for the treatment of cancer chemotherapy induced emesis	Drug design and Development, Synthetic Medicinal Chemistry	August, 2001 - September, 2005	Completed
2	RajKumar R	Behavioural Neuropharmacological Studies of Selected Serotonin Type-3 Receptor Antagonists as Potential Anti-depressants	Neuropsychopharmacology division, (Drug discovery, standardization and development of new animal model)	August, 2004 - March 2008	Completed
3	Dilip Kumar Pandey	Neurobehavioural and Neurochemical Evaluation of Selected Monoaminergic Modulators in Animal Models of Comorbid Depression and Anxiety	Neuropsychopharmacology division, (Drug discovery, standardization and development of new animal model)	August, 2007 - March 2011	Completed
4	T. Devadoss	Novel Quinoxaline Carboxamides: Design, Synthesis And Neuro-Pharmacological Evaluation as Anti-depressants, Anxiolytic And in the Management of Cancer Chemotherapy-Induced Nausea and Vomiting	Drug design and Development, Synthetic Medicinal Chemistry	December, 2007 - January 2012	Completed
5	Shvetank Bhatt	Behavioural and Neuropharmacological Screening of Potential Serotonergic Ligands for Co-morbid Depression, Anxiety and Related Disorders such as Cancer Chemotherapy Induced Nausea and Vomiting (CINV)	Neuropsychopharmacology division, (Drug discovery, standardization and development of new animal model)	October, 2008 - March, 2015	Completed

6	Arghya K Dhar	Novel Neuro-Pharmacological Agents for the Treatment of Depression, Anxiety, Cognitive dysfunction and Cancer Chemo- Therapy Induced Emesis: Design synthesis and Screening of Potential Serotonergic Modulators	Drug design and Development, Synthetic Medicinal Chemistry	January, 2010 - May, 2016	Completed
7	Ankur Jindal	Behavioral and Neuropharmacological Screening of Phosphodiesterase4 (PDE4) Inhibitors for Anti-depressant and Anxiolytic Potential	Neuropsychopharmacology division, (Drug discovery, standardization and development of new animal model)	January, 2010 - December, 2015	Completed
8	Muthu V. Sudali	Design, Synthesis and Pharmacological Evaluation of Novel Phosphodiesterase-IV inhibitors for their Anti-depressant and Anxiolytic Potential	Drug design and Development, Synthetic Medicinal Chemistry	June, 2010 - October, 2015	Completed
9	Sourabh Mundra	Design, Synthesis and screening of Potential Anti-malarial Agents.	Drug design and Development, Synthetic Medicinal Chemistry	September, 2010 - June, 2017	Completed
10	Deepali Gupta	Behavioral and Neuro-pharmacological Screening of Potential Serotonergic Ligands for Co-morbid Depression	Neuropsychopharmacology, (Drug discovery, standardization and development of new animal model)	August, 2011 - April, 2017	Completed
11	Yeshwant Kurhe	Behavioral and Neuropharmacological Screening of Potential Serotonergic Modulators for Depression Comorbid with Obesity	Neuropsychopharmacology, (Drug discovery, standardization and development of new animal model)	January, 2012 - January, 2018	Completed
12	Sushil Yadav	Isolation and Characterization of Genetic Variants of Beta Casein From Cow Milk and to Study Their Effects on Osteoporosis	Neuropsychopharmacology, Veterinary Pharmacology and Biotechnology	August, 2012 – Oct., 2019	Completed

**Higher Degree:** Guided several M. Pharm. students for various projects in the area of New Drug Design and Synthesis, Neuro-psychopharmacology, Design and development of new animal models, with special reference to serotonergic modulators and related disorders. Many have culminated in conference presentations and or publications.

**First Degree:** Guided two (completed) first degree thesis students and currently guiding one first degree student in the area of Neuro-psychopharmacology, Design and Development of new Animal Models and related protocol standardization. Guided several B.Pharm. Students on Special Projects, Lab. Oriented Projects, Study Oriented Projects, Computer Projects. A few have culminated in conference presentations and or publications.

#### **Conferences Organized:**

Organizing Committee Member/Co-ordinator:

- a) International Symposium on Recent Advances in Drug Design and Drug Delivery Systems, February 2005.
- b) International Workshop on Drug Design, February 2005.
- c) International Symposium on Public Health awareness (in association with Bio-Sciences Group), March,2005
- d) National Symposium on Challenges in Drug Discovery Research: Networking Opportunities between Academia and Industry, (in association with Chemistry Group) April, 2006
- e) International Symposium on “Emerging Trends in Life Sciences Research” (in association with Bio-Sciences Group), March,2009

#### **Professional Activities:**

##### **(A) Memberships of Professional Bodies:**

1. Member, Board of Studies, (Pharmacy), DIT University, Dehradun
2. Member- Selection Committee for JRF/SRF- CSIR
3. Life Member - Society of Neurochemistry, India
4. Life Member - Indian Pharmacological Society
5. Life Member - Association of Pharmacy teachers of India

**(B) Referee for Journals:**

1. Chemical Biology and Drug Design – Publisher - Willey
2. Indian Journal of Medical Research- Publisher - ICMR
3. Indian Journal of Experimental Biology- Publisher - NISCAIR
4. Indian Journal Of pharmaceutical Sciences- Publisher- Medknow

**(C) Member, Committees:**

- Member, Research and Recognition Committee, SPP School of Pharmacy & Technology Management, Narsee Monjee Institute of Management Sciences, Mumbai

**Book Chapter:**

- ❖ Yong –Ku Kim (editor) et al., 'Understanding Depression ...'- Springer Nature Singapore pvt ltd., Vol-2, Chapter-17, pp-235-249, 2018 with research scholar, Ms. Deepali Gupta.

## **Research Publications (International and National)**

### **International**

1. Kurhe Y, **Mahesh R**, Devadoss T. Novel 5-HT<sub>3</sub> receptor antagonist QCM-4 attenuates depressive-like phenotype associated with obesity in high-fat-diet-fed mice. *Psychopharmacology* 2017; 234, 1165-1179. (**Springer**) (IF-3.87)
2. Mundra S, Thakur V, Bello A. M, Rathore S, Asad M, Wei L, Yang J, Chakka S. K, Mahesh R, Malhotra P, Mohmmmed A, Kotra L. P. A novel class of Plasmodial ClpP protease inhibitors as potential antimalarial agents. *Bioorganic & Medicinal Chemistry* 2017; 25, 5662-5677 (IF-2.793)
3. Bhatt S, **Mahesh R**, Devadoss T, Jindal A. Neuropharmacological evaluation of a novel 5-HT<sub>3</sub> receptor antagonist (4-benzylpiperazin-1-yl)(3-methoxyquinoxalin-2-yl) methanone (6g) on lipopolysaccharide-induced anxiety models in mice. *Journal of Basic and Clinical Physiology and Pharmacology* 2016, Volume 28, Issue 2, Pages 101– 106, ISSN (Online) 2191-0286, ISSN (Print) 0792-6855, (**De Gruyter**)
4. Bhatt S, **Mahesh R**, Jindal A, Devadoss T. Neuropharmacological and neurochemical evaluation of Nn-propyl-3- ethoxyquinoxaline-2- carboxamide (6n): a novel serotonergic 5-HT<sub>3</sub> receptor antagonist for co-morbid antidepressant-and anxiolytic-like potential using traumatic brain injury model in rats. *Journal of Basic and Clinical Physiology and Pharmacology* 2016 Volume 28, Issue 2, Pages 93–100, ISSN (Online) 2191-0286, ISSN (Print) 0792-6855, (**De Gruyter**)
5. Kurhe Y, **Mahesh R**. Pioglitazone, a PPAR- $\gamma$  agonist rescues depression associated with obesity using chronic unpredictable mild stress model in experimental mice. *Neurobiology of Stress* 2016; 3, 114-121. (**Elsevier**) (IF-1.0)
6. Bhatt S, Bagal SM, Butola S, Dhar AK, **Mahesh R**. Antidepressant-and anxiolytic-like effect of novel 5-hydroxytryptamine<sub>3</sub> receptor antagonist 2-[4-(3-chlorophenyl) piperazin-1-yl]-1, 8-naphthyridine-3-carboxylic acid (7e)-: An approach using rodent behavioral antidepressant and anxiolytic test battery. *International Journal of Nutrition, Pharmacology, Neurological Diseases* 2016; 6, 81-89. (**Medknow**) (IF-0.6)
7. Gupta D, Prabhakar V, **Radhakrishnan M**. 5HT<sub>3</sub> receptors: Target for new antidepressant drugs. *Neuroscience & Biobehavioral Reviews* 2016; 64, 311-325. (**Elsevier**) (IF-10.52)
8. Gupta D, Thangaraj D, **Radhakrishnan M**. A novel 5HT<sub>3</sub> antagonist 4i (N-(3-chloro-2-methylphenyl)quinoxalin-2-carboxamide) prevents diabetes-induced

- depressive phenotypes in mice: Modulation of serotonergic system. Behavioral Brain Research 2016; 297, 41-50. (*Elsevier*) (IF-3.0)
9. Kurhe Y, **Mahesh R**. Ondansetron attenuates co-morbid depression and anxiety associated with obesity by inhibiting the biochemical alterations and improving serotonergic neurotransmission. Pharmacology Biochemistry and Behavior 2015; 136, 107-116. (*Elsevier*) (IF-2.78)
  10. Mundra S, **Mahesh R**. Pyridine-based microwave assisted one-pot synthetic protocol for the synthesis of ethyl 3-substituted-4-oxo-2-thioxo-1,2,3,4-tetrahydropyrimidine-5-carboxylates. Research on Chemical Intermediates 2016; 42, 4207-4219 (*Springer*) (IF- 1.3)
  11. Kurhe Y, **Mahesh R**. Mechanisms linking depression co-morbid with obesity: An approach for serotonergic type 3 receptor antagonists as novel therapeutic intervention. Asian Journal of Psychiatry 2015; 17, 3-9. (*Elsevier*) (IF-0.6)
  12. Chakka S. K, Kalamuddin M, Mundra S, **Mahesh R**, Malhotra P, Mohmmmed A, Kotra L. P. Identification of novel class of falcipain-2 inhibitors as potential antimalarial agents. Bioorganic & Medicinal Chemistry 2015; 23, 2221-2240 (*Elsevier*) (IF-3.3)
  13. Gupta D, **Mahesh R**, Kurhe Y. Effect of a novel 5-HT<sub>3</sub> receptor antagonist 4i, in corticosterone-induced depression-like behavior and oxidative stress in mice. Steroids 2015; 96, 95-102. (*Elsevier*) (IF-2.71)
  14. Jindal A, **Mahesh R**, Bhatt S. Etazolate, a Phosphodiesterase 4 enzyme inhibitor produces antidepressant-like effects by blocking the behavioral, biochemical, neurobiological deficits and histological abnormalities in hippocampus region caused by olfactory bulbectomy. Psychopharmacology, 2015; 232, 623-637. (*Springer*) (IF-3.396)
  15. Jindal A, **Mahesh R**, Bhatt S. Type 4 phosphodiesterase enzyme inhibitor, rolipram rescues behavioral deficits in olfactory bulbectomy models of depression: Involvement of hypothalamic-pituitary-adrenal axis, cAMP signaling aspects and antioxidant defense system. Pharmacology Biochemistry and Behavior 2015; 132, 20-32. (*Elsevier*) (IF-2.78)
  16. Kurhe Y, **Mahesh R**, Devadoss T. QCM-4, a 5-HT<sub>3</sub> receptor antagonist ameliorates plasma HPA axis hyperactivity, leptin resistance and brain oxidative stress in depression and anxiety-like behavior in obese mice. Biochemical and Biophysical Research Communications 2015; 456, 74-79. (*Elsevier*) (IF-2.281)
  17. Mundra S, **Mahesh R**. Evaluation of novel 1-(4-(substituted)piperazin-1-yl)-2-(phenylamino)ethanone derivatives as Falcipain-2 inhibitors. Journal of young Pharmacist 2015; 7, 96-105. (*Elsevier*) (IF-0.5)

18. Dhar AK, **Mahesh R**, Jindal A, Bhatt S. Piperazine analogues of naphthyridine-3-carboxamides and indole-2-carboxamides: Novel 5-HT<sub>3</sub> receptor antagonists with antidepressant like activity, *Archiv Der Pharmazie* 2015; 348, 34-45. (**Wiley Online Library**) (IF-1.39)
19. Kurhe Y, **Mahesh R**, Gupta D, Thangaraj D. Effect of (4a) a novel 5-HT<sub>3</sub> receptor antagonist on chronic unpredictable mild stress induced depressive-like behavior in mice: an approach using behavioral tests battery. *Journal of Basic and Clinical Physiology and Pharmacology*, 2015; 26, 25-33. (**De Gruyter**)(IF-0.6)
20. **Mahesh R**, Mundra S, Devadoss T. Design, synthesis and evaluation of 2-(4-(substituted benzoyl)-1,4-diazepan-1-yl)-N phenylacetamide derivatives as a new class of falcipain-2 inhibitors. *Arabian Journal of Chemistry* 2014; 20, 212-224. (**Elsevier**) (IF-2.7)
21. Gupta D, **Mahesh R**, Kurhe Y. Ondansetron, a 5HT-3 receptor antagonist reverses depression and anxiety-like behavior in streptozotocin-induced diabetic mice: Possible implication of serotonergic system. *European Journal of Pharmacology* 2014; 744, 59-66. (**Elsevier**) (IF- 2.754)
22. Dhar AK, **Mahesh R**, Jindal A, Devadoss T, Bhatt S. Design, Synthesis, and Pharmacological Evaluation of Novel 2-(4-substituted piperazin-1-yl)1, 8 Naphthyridine 3-Carboxylic Acids as 5-HT<sub>3</sub> Receptor Antagonists for the Management of Depression. *Chemical Biology & Drug Design* 2014; 84, 721-31. (**Wiley**) (IF-2.50)
23. Kurhe Y, **Mahesh R**, Gupta D, Devadoss T. QCM-4, a serotonergic type 3 receptor modulator attenuates depression co-morbid with obesity in mice: An approach based on behavioral and biochemical investigations. *European Journal of Pharmacology* 2014; 740, 611-618. (**Elsevier**) (IF-2.75).
24. Kurhe Y, **Mahesh R**, Gupta, D. Ondansetron attenuates depression co-morbid with obesity in obese mice subjected to chronic unpredictable mild stress; an approach using behavioral battery tests. *Metabolic Brain Disease* 2014; 29, 701-710. (**Springer**) (IF-2.39).
25. Gupta, Deepali; Radhakrishnan, Mahesh; Kurhe, Yeshwant; Anxiolytic-like effects of alverine citrate in experimental mouse models of anxiety, *European journal of pharmacology*, 742 - 94-101 2014, Elsevier
26. Gupta D, **Mahesh R**, Kurhe Y, Thangaraj D, Prabhakar V, Kanade P. Antidepressant-like effects of 6z, a novel 5HT<sub>3</sub> receptor antagonist in acute and chronic mouse models of depression. *Acta Pharmacologica Sinica* 2014; Accepted. (**Nature**) (2.496).

27. Kurhe Y, **Mahesh R**, Gupta D. Effect of a Selective Cyclooxygenase Type 2 Inhibitor Celecoxib on Depression Associated with Obesity in Mice: An Approach Using Behavioral Tests. *Neurochemical Research* 2014; 39:1395-1402. (**Springer**) (IF-2.55)
28. Bhatt S, **Mahesh R**, Jindal A, Devadoss T. Protective effects of a novel 5-HT<sub>3</sub> receptor antagonist, *N*-n-butyl-3-methoxy quinoxaline-2-carboxamide (6o) against chronic unpredictable mild stress-induced behavioral changes and biochemical alterations. *Pharmacology Biochemistry Behavior* 2014; 122: 234-239. (**Elsevier**) (IF-2.75)
29. Bhatt S, **Mahesh R**, Jindal A, Devadoss T. Neuropharmacological Effect of Novel 5-HT<sub>3</sub> Receptor Antagonist, *N*-n-propyl-3-ethoxyquinoxaline-2-carboxamide (6n) on Chronic Unpredictable Mild Stress-Induced Molecular and Cellular Response : Behavioural and Biochemical Evidences. *Pharmacological Reports* 2014; 66: 804-810. (**Elsevier**) (IF-1.96)
30. Gupta D, **Radhakrishnan M**, Thangaraj D, Kurhe Y. Antidepressant and anti-anxiety like effects of 4i (3-Chloro-2-methylphenyl) quinoxalin-2-carboxamide), a novel 5-HT receptor antagonist in acute and chronic neurobehavioral rodent models. *European Journal of Pharmacology* 2014; 735: 59-67. (**Elsevier**) (IF-2.592)
31. Gupta D, **Radhakrishnan M**, Kurhe Y. Insulin reverses anxiety-like behavior evoked by streptozotocin-induced diabetes in mice. *Metabolic Brain Disease*, 2014; 29, 737-46. (**Springer**) (IF-2.33)
32. Gupta D, Kurhe Y, **Radhakrishnan M**. Antidepressant effects of insulin in streptozotocin induced diabetic mice: Modulation of brain serotonin system. *Physiology & Behavior* 2014; 129: 73-78. (**Elsevier**) (IF-3.1)
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## **Conference Presentations (*International and National*)**

### **International**

1. Kurhe Y, **Mahesh R**, Thangaraj D. Mechanisms linking depression associated with obesity through serotonergic modulation in experimental mice. Society for Neuroscience (SfN) 46<sup>th</sup> Annual Meeting, Neuroscience 2016, Nov 12-16, 2016, San Diego, California, United States.
2. Gupta D, **Mahesh R**. 6z, a novel 5HT<sub>3</sub> receptor antagonist reverses depression-like behavior in streptozotocin-induced diabetic mice by normalizing serotonin deficiency and HPA-axis hyperactivity. 14<sup>th</sup> Meeting of the Asian Pacific Society for Neurochemistry, Aug 27-30, 2016, Kuala Lumpur, Malaysia.
3. Kurhe Y, **Mahesh R**, Thangaraj D. Serotonergic type 3 receptor antagonist (4-phenylpiperazin-1-yl) (quinoxalin-2-yl) methanone (4a) attenuates depression co-morbid with obesity by promoting serotonergic neuromodulation and reversing insulin resistance in experimental mice. IBRO/APRC Varanasi School (Molecular Advancements in Neurobiology), Sept 5-20, 2015, Varanasi, India.
4. Gupta D, **Mahesh R**. 4i (N-(3-Chloro-2-methylphenyl) quinoxalin-2-carboxamide), a novel 5HT<sub>3</sub> antagonist, reverses diabetes-induced depressive phenotype. 25<sup>th</sup> ISN-APSN Joint Biennial Meeting organized by Australasian Society for Neuroscience (ANS), August 23-27, 2015, Cairns, Australia.
5. Gupta D, **Mahesh R**, Kurhe Y, Thangaraj D. Antidepressant-like effects of EQC-34, a novel 5HT-3 receptor antagonist in neurobehavioral mouse model of depression. International Conference on Pharmacy and Pharmacology (ICPP)-2014, 26-27 September, 2014, London, UK.
6. Kurhe Y, **Mahesh R**, Gupta D, Thangaraj D. Antidepressive-Like Effect Of A Novel 5-HT<sub>3</sub> Receptor Antagonist (4a) Against Depression Co-Morbid With Obesity In Mice Subjected To Chronic Stress. FENS Forum of Neuroscience, 5-9 July, 2014, Milan, Italy.
7. **Mahesh R**, Mundra S, Mohammed A. Design and synthesis of falcipain-2 Inhibitor's as a potential Antimalarial Agents. Chemical Biophysics Symposium, 21-23 April, 2013, Toronto, Canada.
8. **Mahesh R**, Mundra S. Design, Synthesis of Novel Antimalarial agents. Biological Therapeutics Symposium, 2-3 May 2013, University of Toronto, Toronto-Canada.
9. **Mahesh R**, Mundra S. Fluorimetric assay for falcipain-2 activity using Victor multi-label counter. Biomedical Engineering & Science Technology (BEST) Symposium at St. Michael's Hospital, 13 June, 2013, Toronto-Canada.

## National

- 10 Sushil Kumar Yadav, R Mahesh, Vishal Saxena Milk derived peptide induced histopathological changes in rat bone. International Conference on Life Science Research & its Interface with Engineering and Allied Sciences (LSRIEAS 2018) organized at BITS, Pilani, Pilani Campus, Nov 1-3, 2018. ( Best Poster Award)
- 11 Dahitule Gauri Chandrakant, Radhakrishnan Mahesh, Telescopic Forecasting And Preventive Strategies For Alzheimer's Disease, International Conference on Frontiers in Neuroscience and Neurochemistry: Dynamic Challenges and Approaches, Society for Neurochemistry India (SNCI), Jamia Hamdard, Delhi, 10-12 Oct., 2019
- 12 Sushil Kumar Yadav, R Mahesh, Vishal Saxena Separation and Analysis of Beta Casein Variants from Cow Milk and their Application in Solubility Enhancement of Poorly Water Soluble Drug. "8th Annual International Conference on Dissolution Science and Applications" - Disso India 2019 organized at NIPER-SAS Nagar, September 11 - 13, 2019.
- 13 Sushil Kumar Yadav, R Mahesh, Vishal Saxena Development of new analytical method for the analysis of  $\beta$ - casein variants in cattle from Pilani region. International Conference on Challenges in Drug Discovery and Delivery (ICCD3-2017), organized at BITS, Pilani, Pilani Campus, March 2-4, 2017
- 14 Sushil Kumar Yadav, R Mahesh, Vishal Saxena Epidemiological study of beta-casein alleles. Golden Jubilee Concluding Celebrations & Annual Conference of Indian Pharmacological Society (IPSCON-2017), organized by Shobhaben Pratapbhai Patel School of Pharmacy & Technology Management, SVKM'S NMIMS, Mumbai, India, Feb 15-17, 2018
- 15 Kurhe Y, Mahesh R. Ondansetron ameliorates depression associated with obesity in high fat diet fed experimental mice: an investigation based on the behavioral, biochemical and molecular approach. 49th Annual Conference of Indian Pharmacological Society (IPSCON-2016) on October 20-23, 2016, PGIMER Chandigarh, Punjab, India.
- 16 Mundra S, Mahesh R. Design, Synthesis and Structure Activity Relationships of Novel Peptidomimetics as Potential Anti-malarial Agents. 49th Annual Conference of Indian Pharmacological Society (IPSCON-2016) on October 20-23, 2016, PGIMER Chandigarh, Punjab, India.
- 17 Mundra S, Mahesh R. Identification of novel class of falcipain-2 inhibitors as potential anti-malarial agents. Organic Chemistry in Sustainable Development: Recent advantages and future challenges (OCSD-2016), August 29-30, 2016, BITS Pilani, Pilani Campus, Pilani, Rajasthan, India.
- 18 Kurhe Y, Mahesh R. High fat diet fed obese rats injected with exogenous corticosterone: an animal model to study depressive-phenotypes associated with obesity. DBT, ICMR and APTI Sponsored Two Days National Conference on "Contemporary Technologies in Drug Delivery and Envisaged Future Trends" on August 12-13, 2016 at Geetanjali Institute of Pharmacy, Geetanjali University, Udaipur, Rajasthan, India.



- 19 Bhatt S, Mahesh R, Devadoss T, Jindal A. Pharmacological profiling of quinoxalin derivative (6g), a novel serotonergic 5-HT<sub>3</sub> receptor antagonist for its antidepressant-and anxiolytic-like activity in traumatic brain injury model in rats. IPC Conference, December 19-21, 2015, JSS University, Mysore, India.
- 20 Mundra S, Mahesh R. Evaluation of novel class of falcipain-2 inhibitors as potential anti-malaria agents. New Frontiers In Chemistry-From Fundamentals To Applications (NFCFA 2015), December 18-19, 2015, BITS Pilani, Goa Campus, Goa, India.
- 21 Mundra S, Mahesh R. Design, Synthesis and careening of falcipain-2 inhibitors as novel anti-malarial agents. 2nd NirmaInstitute of PharmacyInternationalConference, NIPICON January 23-25, 2014, Ahmedabad, India.
- 22 Mahesh R, Jindal A, Bhatt S. Etazolate rescues behavioral deficits in chronic unpredictable stress models of depression by the modulation of HPA axis, BDNF signaling and antioxidant defence system: possible mechanism(s) of neuroprotection. International Conference on Recent Advances in Molecular Mechanisms of Neurological Disorders, 21-23rd February 2013, AIIMS New Delhi.
- 23 Mahesh R, Bhatt S, Devadoss T, Jindal A. Neuropharmacological effect of (4-benzylpiperazin-1-yl) (3-methoxyquinoxalin-2-yl) methanone (qcm-15), a potential 5-HT<sub>3</sub> receptor antagonist on chronic unpredictable mild stress-induced changes in behavior and brain oxidative stress in mice. International Conference on Recent Advances in Molecular Mechanisms of Neurological Disorders, 21-23rd February 2013, AIIMS New Delhi.
- 24 Mahesh R, Dhar AK, Jindal A Bhatt S. 2-(4-substitutedpiperazin-1-yl)-1,8-naphthyridine-3-carboxylic acids: novel 5-HT<sub>3</sub> receptor antagonists as potential anxiolytics. International Conference on Recent Advances in Molecular Mechanisms of Neurological Disorders, 21-23rd February 2013, AIIMS New Delhi.
- 25 Muthu VS, Mahesh R, Jindal A. Design, synthesis and pharmacological evaluation of novel Phosphodiesterases-4 inhibitors as potential anti-depressants. International Conference on Recent Advances in Molecular Mechanisms of Neurological Disorders, 21-23rd February 2013, AIIMS New Delhi.
- 26 Gupta D, Mahesh R, Kurhe Y. Diabetes associated depression: ondansetron, as an antidepressant for streptozotocin induced diabetes associated depression in mice. Journal of Diabetes and Metabolism, OMICS Group Conferences, 3: 8, 133, 24-26th September 2012, Hyderabad.
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