

CURRICULUM VITAE

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Personal Details

Marital Status: Married
Gender: Male
Date of Birth: 01/07/1977 (First of July Nineteen Seventy-Seven)

Degrees/Training

2008-11: Postdoctoral training from College of Medicine & BIO5, University of Arizona, USA
2008: Ph.D. (Pharmacology) from All India Institute of Medical Sciences (AIIMS), India
2002: Master in Pharmacology (major Clinical Pharmacology) from Hamdard University, New Delhi, India
2000: Bachelor in Pharmacy (Pharmacology) from Hamdard University, New Delhi, India

Professional positions in teaching, research and administrative experiences

9/2017 - till date: Associate Professor, Department of Pharmacology & Therapeutics, CMHS, UAE University, UAE
9/2011 - 7/2017: Assistant Professor, Department of Pharmacology & Therapeutics, CMHS, UAE University, UAE
10/2011 - till date: University Animal Research Facility, CMHS, UAE University, UAE
10/2008 - 5/2009: Sr. Research Scientist Medical Affairs & Clinical Research, Daichii Sankyo, Delhi, India
1/2007 - 10/2008: Dept. of Pharmacology & Therapeutics, All India Institute of Medical Sciences, Delhi, India
10/2004 - 9/2008: Dept. of Pharmacology & Therapeutics, All India Institute of Medical Sciences, Delhi, India

Teaching hour's summaries

- Yr 2017/2018 – (131 sessions/240 hrs.), Yr 2016/2017 – (112 sessions/190 hrs)
- Yr 2015/2016 – (111 sessions/184 hrs), Yr 2014/2015 – (114 sessions/198 hrs)
- Yr 2013/2014 – (130 sessions/207 hrs), Yr 2012/2013 – (138 sessions/212 hrs)

Teaching - Undergraduate (MD) program

- Lectures, small PBL groups and TBL groups and lab based teaching in the MD program.

Medical Sciences Course Year II/Premed Program - 4

1. Basic Pharmacology Course (BPH 226/PHAM225)

Medical Sciences Course Year III/ Pre-Clinical Course/Organ System Course - 1

2. Infection, Inflammation and Immunity - III 301/INFE310
3. Cardiovascular System - CVS303/CDPM330
4. Respiratory Systems - RESP305/RESP340
5. Renal and Urogenital - RUS304/WMEX350

Medical Sciences Course Year IV/ Pre-Clinical Course/Organ System Course - 2

6. Endocrine & Metabolism - EMS4012/ENDO420
7. Neurosciences & Special Senses - NSS404/NEOR440

Problem Based Learning (PBL)

- Tutor and wrap up small groups of 8/9 MD students in Neurosciences & Special Senses Module (9 cases), Gastrointestinal Module (6 cases), Respiratory, Module (6 cases), Hematology and Mechanisms of Malignancies Module (5 cases), Renal and Urogenital Module (6 cases)

Team Based learning (TBL)

- Facilitator in TBL for MD students in Respiratory module on cases of tuberculosis and pneumonia

Teaching - Graduate Level (Master and PhD Degree in Pharmacology Track)

Mentoring and facilitating 3-4 Journal club/Seminar each semester for master's and PhD students.

1. General Systemic Pharmacology - PHTX601
2. Journal Club and Seminars - JCS2 85
3. Current Advances in Pharmacological Sciences - CAPS96
4. Neurotransmitters in Health and Diseases - PHTX603
5. Molecular mechanism of drug action – MMDA52

Educational Development

Chaired content development and curriculum changes involved in the cardiopulmonary module and serving as pharmacology representative in curriculum development, standard setting of many modules of the MD program and graduate program. I introduced many new topics, courses and in undergraduate and graduate program and wrote the self-study report and participated in review for CAA and WASC approvals.

Education Management: Managing numerous modules of undergraduate and graduate course.

Biomedical Sciences

- Basic pharmacology for the BSc. Medical Science

Premedical Program

- Co-coordinator of Basic Pharmacology Course 2011(5 week)-continuing

Preclinical Program

- Coordinator of Cardiovascular System Module (16 week) - 2013-2014
- Coordinator of Respiratory System Module (7 week)- 2013-continuing

Pharm D Program

- Coordinator of Pathophysiology and Therapeutics I (PPT1)
- Coordinator of Pathophysiology and Therapeutics II (PPT2)
- Coordinator of Pathophysiology and Therapeutics III (PPT3)
- Coordinator of Pathophysiology and Therapeutics IV (PPT4)
- Coordinator of Pharmacy Economics and Health Management (PEHM)
- Coordinator of Poisoning and Drug Overdose (PDO)

Graduate Program

- Co-coordinator of General Systemic Pharmacology - PHTX601

Mentorship

Undergraduate students/Summer Research Trainee

Well participated in the training of undergraduate students during summer and subsequent months. Until date, I have supervised 31 undergraduate students. Several of them presented their work at the GCC medical university conference and university/college research day for presentation.

Master students - Thesis Advisory Committees

- Ms. Elham Mahmoud Al-Kubaisy - thesis entitled 'Role of SMARCD1 in human breast cancer cell proliferation, colony growth, migration and invasion' - 2011-13
- Ms. Eglal Omer Mahjoub - thesis entitled 'Role of genipin in liver fibrosis and underlying mechanism' - 2014-16
- Ms. Eslam Gaber Al Nabrisi (PhD - Pharmacology) - thesis entitled 'Effect of curcumin and derivatives on different ion channels and in vivo evaluation in neurodegenerative disease' - 2015-18
- Ms. Nermin Essa (PhD - Pharmacology) - thesis entitled 'Studies on histamine receptor ligands in autism spectrum disorder' - 2015-19.
- Ms. Alaa Achkar (PhD - Pharmacology) - thesis entitled 'Studies on histamine receptor ligands in neurodegenerative diseases and memory processes' - 2015-19.
- Mr. Vishnu Raj (PhD – Physiology) - thesis entitled 'Studies on role of sesquiterpenes in inflammatory bowel diseases' - 2015-19.

Chief Supervisor

- Heballah (PhD in Pharmacology) - thesis entitled 'The therapeutic role of cannabinoid type 2 receptor modulators of synthetic and natural cannabinoid derivatives in diabetes and diabetic complications.
- Farah Laham (Master's in Pharmacology) - thesis entitled 'The therapeutic role of cannabinoid type 2 receptor modulators of synthetic and natural cannabinoid derivatives in experimental models of myocardial infarction'.
- Mohamad Mustafa (Master's in Pharmacology) - thesis entitled 'The therapeutic role of cannabinoid and peroxisome proliferated activator receptor agonist in diabetic vascular complications'.
- Mr. Hasan Al Taei (Master's in Pharmacology) - the thesis entitled 'The therapeutic role of cannabinoid type 2 receptor modulators of synthetic and natural cannabinoid derivatives in doxorubicin-associated cardiotoxicity'
- Mr. Salem Nasser Dadraheem B.Sc. (Biomedical Sciences) - entitled 'Black Seed and its constituents in neurodegenerative diseases: future prospects and challenges in their therapeutic use'.

Graduate Thesis Examination

- Mr. Mohamed Omar Mahgoub (Master's in Pharmacology), for the thesis entitled 'Effect of cannabidiol on α -nicotinic muscarinic receptors and serotonin gated ion channels' - year 2015
- Ms. Sara Syed (PhD - Pharmacology), for the thesis entitled 'Role of Tumor Necrosis factor- α in neurodegeneration' - year 2016
- Ms. Eslam Gaber Al Nabrisi (PhD - Pharmacology) - Thesis entitled 'Effect of curcumin and derivatives on different ion channels and in vivo evaluation in neurodegenerative disease' - Year 2015-2018

Honors/awards

Awarded every year by UAEU for publications in top 5% and 10% journals of Scopus

- Distinguished Publication award by the UAE University for year 2018 - 4 publications
- Distinguished Publication award by the UAE University for year 2017 - 6 publications
- Distinguished Publication award by the UAE University for year 2016 - 2 publication
- Best co-ordination of the respiratory course module in year 2017
- Professor Viswesaram and Satyanarayana Award for the best research in Pharmacology by Association of Pharmaceutical Teachers of India at 13th Convention on 3 Oct 2008 at Bilaspur, India.
- International Travel Award from Indian National Science Academy (INSA), New Delhi, India.
- Early Investigator Award by International Society for Heart Research (ISHR) at 18th ISHR World Congress, Australia.
- International Travel Award by ISHR at 18th World Congress, Aug 2004, Brisbane, Australia.
- Dr. G. Achari Prize (awarded for best research) at 37th Conference. Indian Pharmacological Society.
- Research and teaching associateship by CSIR, New Delhi during PhD in Medical & Pharmaceutical Sciences

RESEARCH EXPERIENCE

Total Research Experience: (11 Years, excluding PhD), (Assistant/Associate Professor academics; since 2001)

Currently, our lab focus on therapeutic targeting of oxidative stress, inflammation and apoptotic changes and subcellular remodeling for the transition of cardiac adaptation (hypertrophy and dilation) to maladaptation (cardiac dysfunction and heart failure) as well as oxidative/nitrosative stress and immune-inflammatory signaling in neurodegenerative diseases especially in Parkinson's disease. We employ several kind of animal models such as doxorubicin-induced cardiotoxicity, isoproterenol-induced myocardial infarction, streptozotocin-induced diabetes and rotenone-induced Parkinson's disease for screening and evaluation of the natural as well as synthetic drugs. Our research team has been instrumental in establishing two new areas of research at CMHS, UAE University i.e. first in cardiovascular research wherein the focus was on drug discovery for cardiometabolic disease and metabolic syndrome employing animal models showed induction of metabolic syndrome by high fat/high carbohydrate and streptozotocin. Secondly, in neuroscience research, our focus is on to investigate novel therapeutics for Parkinson's disease employing the animal model of rotenone/MPTP-induced dopaminergic neurodegeneration and behavioral paradigms. The environmental factors mainly use of pesticides play a significant role in causation of PD, thus we employ rotenone-model of neurodegeneration and organophosphate-induced neuroinflammation and neurodegeneration. Many of our research articles are first in the field and among the highly cited articles. To name a few are articles in *Chemico Biologic Interactions* and *Pharmacology Biochemistry and Behavior* are

one of the highly down loaded article in the list of most down loaded papers published in the journal *Chemico Biologico Interactions* published by Elsevier (<http://www.journals.elsevier.com/chemico-biological-interactions/>).

Publications in Peer Reviewed Indexed Journals:

Shreesh Ojha, ORCID ID: <https://orcid.org/0000-0001-7801-2966>

Citation: <https://scholar.google.co.uk/shreesh Ojha>

	All	Since 2013
<u>Citations</u>	2687	2158
<u>h-index</u>	28	26
<u>i10-index</u>	74	65

2019

1. Meeran MFN, Laham F, Azimullah S, Adeghate EA, Tariq S, Goyal SN, **Ojha Shreesh**[✉]. β -caryophyllene, a natural bicyclic sesquiterpene attenuates β -adrenergic agonist-induced myocardial infarction in a cannabinoid receptor-2 dependent and independent manner. **Free Radical Biology and Medicine in review**.
2. Meeran MFN, Azimullah S, Meeran MFN, Alaraj Almheiri MK, Al Jasmi RA, Tariq S, Adeghate E, **Ojha Shreesh**[✉]. α -bisabolol protects against β -adrenergic agonist-induced myocardial infarction in rats by attenuating inflammation, lysosomal dysfunction, NLRP3 inflammasome activation and modulating autophagic flux. **Food and Function, Royal Society of Chemistry Journal, in press**.
3. Patil KR, Mahajan UB, Unger BS, Goyal SN, Belemkar S, Surana SJ, **Ojha Shreesh**[✉], Patil CR. Animal Models of Inflammation for Screening of Anti-inflammatory Drugs: Implications for the Discovery and Development of Phytopharmaceuticals. **International Journal of Molecular Sciences** Sep 5;20(18).
4. Eissa N, Azimullah S, Jayaprakash P, Jayaraj RL, Reiner D, **Ojha Shreesh**, Beiram R, Stark H, Łażewska D, Kieć-Kononowicz K, Sadek B. The dual-active histamine H3 receptor antagonist and acetylcholine esterase inhibitor E100 ameliorates stereotyped repetitive behavior and neuroinflammation in sodium valproate induced autism in mice. **Chemico Biological Interactions** Oct 1;312:108775.
5. Al-Tae H, Azimullah S, Meeran MFN, Alaraj Almheiri MK, Al Jasmi RA, Tariq S, Ab Khan M, Adeghate E, **Ojha Shreesh**[✉]. β -caryophyllene, a dietary phytocannabinoids attenuates oxidative stress, inflammation, apoptosis and prevents structural alterations of the myocardium against doxorubicin-induced acute cardiotoxicity in rats: An in vitro and in vivo study. **European Journal of Pharmacology** Sep 5;858:172467.
6. Jayaraj RL, Beiram R, Azimullah S, Meeran MFN, **Ojha Shreesh**, Adem A, Jalal FY. Lycopodium Attenuates Loss of Dopaminergic Neurons by Suppressing Oxidative Stress and Neuroinflammation in a Rat Model of Parkinson's Disease. **Molecules** Jun 10;24(11).
7. Javed H, Nagoor Meeran MF, Azimullah S, Adem A, Sadek B, **Ojha Shreesh**[✉]. Plant Extracts and Phytochemicals Targeting α -Synuclein Aggregation in Parkinson's Disease Models. **Frontiers in Pharmacology** Mar 19;9:1555. doi: 10.3389/fphar.2018.01555.
8. Javed H, Azimullah S, Meeran MFN, Ansari SA, **Ojha Shreesh**[✉]. Neuroprotective Effects of Thymol, a Dietary Monoterpene Against Dopaminergic Neurodegeneration in Rotenone-Induced Rat Model of Parkinson's Disease. *Int J Mol Sci.* 2019 Mar 27;20(7). pii: E1538.
9. Meeran MFN, Al Tae H, Azimullah S, Tariq S, Adeghate E, **Ojha Shreesh**[✉]. β -Caryophyllene, a natural bicyclic sesquiterpene attenuates doxorubicin-induced chronic cardiotoxicity via activation of myocardial cannabinoid type-2 (CB(2)) receptors in rats. *Chem Biol Interact.* 2019 May 1;304:158-167.
10. Khairnar SI, Mahajan UB, Patil KR, Patel HM, Shinde SD, Goyal SN, Belemkar S, **Ojha Shreesh**, Patil CR. Disulfiram and Its Copper Chelate Attenuate Cisplatin-Induced Acute Nephrotoxicity in Rats Via Reduction of Oxidative Stress and Inflammation. **Biological and Trace Elements Research** Mar 1. doi: 10.1007/s12011-019-01683-w.
11. Hammad FT, **Ojha Shreesh**, Azimullah S, Lubbad L. Does β -caryophyllene protect against renal dysfunction following ischemia-reperfusion injury in the rat? **International Journal of Physiology, Pathophysiology and Pharmacology** Dec 25;10(6):163-171. PMID: 30697363

12. Patil AS, Singh AD, Mahajan UB, Patil CR, **Ojha Shreesh**[✉], Goyal SN. Protective effect of omeprazole and lansoprazole on β -receptor stimulated myocardial infarction in Wistar rats. **Molecular and Cellular Biochemistry** Jun;456(1-2):105-113.
13. H Javed, FN Meeran, B Sadek, S Azimullah, A Adem, **Ojha Shreesh**[✉]. Plant extracts and phytochemicals target α -synuclein aggregation in Parkinson's disease models. **Frontiers in Pharmacology** 2019. IF - 3.83

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14. SMA Bastaki, E Adeghate, N Amir, **Shreesh Ojha**[✉], M Oz. Menthol inhibits oxidative stress and inflammation in acetic acid-induced colitis in rat colonic mucosa. **American Journal of Translational Research** 15;10(12):4210-4222.. IF - 3.06
15. SB Subramanya, B Venkataraman, MFN Meeran, SN Goyal, CR Patil, **Shreesh Ojha**[✉]. Therapeutic potential of plants and plant derived phytochemicals against acetaminophen-induced liver injury: evidences from preclinical studies. **International Journal of Molecular Sciences** 335820. IF - 3.68
16. UB Mahajan, G Chandrayan, CR Patil1, DS Arya, K Suchal, Y Agrawal, **Shreesh Ojha**[✉], SN Goyal. Eplerenone attenuates myocardial infarction in diabetic rats via modulation of the PI3K-Akt pathway and phosphorylation of GSK-3 β . **American Journal of Translational Research** 2018;10(9). IF - 3.06
17. V Raj, **Shreesh Ojha**, FC Howarth, PD Belur, SB Subramanya. Therapeutic potential of benfotiamine and its molecular targets. **European Review for Medical and Pharmacological Sciences** 22 (10), 3261-3273. IF - 2.38
18. SB Subramanya, V Raj, S Chandran, S Al Marzooqui, **Shreesh Ojha**. Nerolidol a natural aliphatic sesquiterpene mitigates inflammation in DSS-induced colitis. **FASEB J** 32 (1); 33. IF - 5.59
19. Sonawane VK, Mahajan UB, Shinde SD, Chatterjee S, Chaudhari SS, Bhangale HA, **Shreesh Ojha**, Goyal SN, Kundu CN, Patil CR. A chemosensitizer drug: disulfiram prevents doxorubicin-induced cardiac dysfunction and oxidative stress in rats. **Cardiovascular Toxicology** 2018 Oct;18(5):459-470. IF – 2.98
20. Magar S, Nayak D, Mahajan UB, Patil KR, Shinde SD, Goyal SN, Swaminarayan S, Patil CR, **Shreesh Ojha**[✉], Kundu CN. Ultra-diluted Toxicodendron pubescens attenuates pro-inflammatory cytokines and ROS- mediated neuropathic pain in rats. **Scientific Reports** 2018 Sep 10;8(1):13562.
21. Nagoor Meeran MF, Goyal SN, Suchal K, Sharma C, Patil CR, **Shreesh Ojha**[✉]. Pharmacological properties, molecular mechanisms, and pharmaceutical development of asiatic acid: a pentacyclic triterpenoid of therapeutic promise. **Frontiers in Pharmacology** 2018 Sep 4; 9:892.
22. Mahajan UB, Patil PD, Chandrayan G, Patil CR, Agrawal YO, **Shreesh Ojha**[✉], Goyal SN. Eplerenone pretreatment protects the myocardium against ischaemia/reperfusion injury through the phosphatidylinositol 3-kinase/Akt-dependent pathway in diabetic rats. **Molecular and Cellular Biochemistry** 2018 Sep;446(1-2):91-103.
23. Eissa N, Jayaprakash P, Azimullah S, **Shreesh Ojha**, Al-Houqani M, Jalal FY, Łażewska D, Kieć-Kononowicz K, Sadek B. The histamine H3R antagonist DL77 attenuates autistic behaviors in a prenatal valproic acid-induced mouse model of autism. **Scientific Reports** 2018 Aug 30;8(1):13077.
24. Nagoor MF, Laham F, Azimullah S, Tariq S, **Shreesh Ojha**[✉]. α -Bisabolol abrogates isoproterenol-induced myocardial infarction by inhibiting mitochondrial dysfunction and intrinsic pathway of apoptosis in rats. **Molecular and Cellular Biochemistry** 2018 Aug 29.
25. Meeran MFN, Laham F, Al-Tae H, Azimullah S, **Shreesh Ojha**[✉]. Protective effects of α -bisabolol on altered hemodynamics, lipid peroxidation, and nonenzymatic antioxidants in isoproterenol-induced myocardial infarction: in vivo and in vitro evidences. **Journal of Biochemical and Molecular Toxicology** 2018 Aug 8: e22200.
26. Vasaikar N, Mahajan U, Patil KR, Suchal K, Patil CR, **Shreesh Ojha**, Goyal SN. D-pinitol attenuates cisplatin-induced nephrotoxicity in rats: impact on pro-inflammatory cytokines. **Chemico Biologico Interactions** 2018 Jun 25; 290: 6-11.
27. Eissa N, Al-Houqani M, Sadeq A, **Shreesh Ojha**, Sasse A, Sadek B. Current enlightenment about etiology and pharmacological treatment of autism spectrum disorder. **Frontiers in Neuroscience** 2018 May 16; 12: 304.
28. Kalász H, **Shreesh Ojha**, Tekes K, Szőke É, Mohanraj R, Fahim M, Adeghate E, Adem A. Pharmacognostical sources of popular medicine to treat Alzheimer's disease. **Open Medicinal Chemistry Journal** 2018 Feb 16; 12: 23-35.
29. Eissa N, Khan N, **Shreesh Ojha**, Łażewska D, Kieć-Kononowicz K, Sadek B. The histamine H3 receptor antagonist DL77 ameliorates MK801-induced memory deficits in rats. **Frontiers in Neuroscience** 2018 Feb 12; 12: 42.

2017

30. Goyal SN, Prajapati CP, Gore PR, Patil CR, Mahajan UB, Sharma C, Talla SP, **Shreesh Ojha**[✉]. Therapeutic Potential and Pharmaceutical development of thymoquinone: a multitargeted molecule of natural origin. **Frontiers in Pharmacology** 2017 Sep 21; 8:656.
31. Mahgoub E, Kumaraswamy SM, Kader KH, Venkataraman B, **Shreesh Ojha**, Adeghate E, Rajesh M. Genipin attenuates cisplatin-induced nephrotoxicity by counteracting oxidative stress, inflammation, and apoptosis. **Biomedicine and Pharmacotherapy** 2017; 93: 1083-97.
32. Nagoor MF, Javed H, AlTae H, Azimullah S, **Shreesh Ojha**[✉]. Pharmacological properties and molecular mechanisms of thymol: prospects for its therapeutic potential and pharmaceutical development. **Frontiers in Pharmacology** 2017 Jun 26; 8: 380.
33. Patil PD, Mahajan UB, Patil KR, Chaudhari S, Patil CR, Agrawal YO, **Shreesh Ojha**[✉], Goyal SN. Past and current perspective on new therapeutic targets for Type-II diabetes. **Drug Design Development and Therapy** 2017 May 22; 11:1567-1583.
34. Suchal K, Malik S, Khan SI, Malhotra RK, Goyal SN, Bhatia J, **Shreesh Ojha**[✉], Arya DS. Molecular pathways involved in the amelioration of myocardial injury in diabetic rats by kaempferol. **International Journal of Molecular Sciences** 2017 May 15;18(5);1001.
35. Chaudhary G, Mahajan UB, Goyal SN, **Shreesh Ojha**, Patil CR, Subramanya SB. Protective effect of Lagerstroemia speciosa against dextran sulfate sodium induced ulcerative colitis in C57BL/6 mice. **American Journal of Translational Research** 2017 Apr 15;9(4):1792-1800.
36. Mahajan UB, Chandrayan G, Patil CR, Arya DS, Suchal K, Agrawal YO, **Shreesh Ojha**[✉], Goyal SN. The protective effect of apigenin on myocardial injury in diabetic rats mediating activation of the PPAR- γ pathway. **International Journal of Molecular Sciences** 2017 Apr 4;18(4).
37. Ramdhare AS, **Shreesh Ojha**[✉], Nandave M. Energy intake correlates with the levels of fatty acid synthase and insulin-like growth factor-1 in male and female C57BL/6 mice. **American Journal of Translational Research** 2017 Mar 15;9(3):830-844.
38. Suchal K, Malik S, Khan SI, Malhotra RK, Goyal SN, Bhatia J, Kumari S, **Shreesh Ojha**, Arya DS. Protective effect of mangiferin on myocardial ischemia-reperfusion injury in streptozotocin-induced diabetic rats: role of AGE-RAGE/MAPK pathways. **Scientific Reports** 2017 Feb 9; 7: 42027.
39. Kamble SM, Patel HM, Goyal SN, Noolvi MN, Mahajan UB, **Shreesh Ojha**[✉], Patil CR. In silico evidence for binding of pentacyclic triterpenoids to Keap1-Nrf2 protein-protein binding site. **Combinatorial Chemistry & High Throughput Screening** 2017;20(3):215-234.
40. Jahan S, Kumar D, Chaturvedi S, Rashid M, Wahajuddin M, Khan YA, Goyal SN, Patil CR, Mohanraj R, Subramanya S, **Shreesh Ojha**[✉]. Therapeutic targeting of NLRP3 inflammasomes by natural products and pharmaceuticals: a novel mechanistic approach for inflammatory diseases. **Current Medicinal Chemistry** 2017;24(16):1645-1670.
41. Khan SI, Malhotra RK, Rani N, Tomar A, Garg S, Nag TC, Ray R, **Shreesh Ojha**[✉], Arya DS, Bhatia J. Febuxostat modulates MAPK/NF- κ Bp65/TNF- α signaling in cardiac ischemia-reperfusion injury. **Oxidative Medicine and Cellular Longevity** 2017;2017: 8095825.
42. Panda V, Mistry K, Sudhamani S, Nandave M, **Shreesh Ojha**[✉]. Amelioration of abnormalities associated with the metabolic syndrome by Spinacia oleracea (spinach) consumption and aerobic exercise in rats. **Oxidative Medicine and Cellular Longevity** 2017; 2017: 2359389.
43. Chaphalkar R, Apte KG, Talekar Y, **Shreesh Ojha**[✉], Nandave M. Antioxidants of Phyllanthus emblica L. bark extract provide hepatoprotection against ethanol-induced hepatic damage: a comparison with silymarin. **Oxidative Medicine and Cellular Longevity** 2017;2017: 3876040.
44. SM Nurulain, Shreesh Ojha, M Shafiullah, J Yasin, T Yasmin, T Saeed, E Adeghate. Terbufos sulfone aggravates kidney damage in STZ-induced diabetic rats. **Biologia** 2017;72(8):946-953.
45. UB Mahajan, AK Walke, MV Kardile, SN Goyal, S Siddharth, CN Kundu, **Shreesh Ojha**, CR Patil. Anti-inflammatory homoeopathic drug dilutions restrain lipopolysaccharide-induced release of pro-inflammatory cytokines: In vitro and in vivo evidence. **Indian Journal of Research in Homoeopathy** 2017;11(3),158-169.

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47. Kumar S, Tinson A, Mulligan BP, **Shreesh Ojha**. Gelatin binding proteins in reproductive physiology. **Indian Journal of Microbiology** 2016 Dec;56(4):383-393.
48. Patil CR, Sonara BM, Mahajan UB, Patil KR, Patil DD, Jadhav RB, Goyal SN, **Shreesh Ojha**[✉]. Chemomodulatory potential of bartogenic acid against DMBA/croton oil induced two-step skin carcinogenesis in mice. **Journal of Cancer** 2016, 23;7(14):2139-2147.
49. Malik S, Suchal K, Bhatia J, Khan SI, Vasisth S, Tomar A, Goyal S, Kumar R, Arya DS, **Shreesh Ojha**[✉]. Therapeutic potential and molecular mechanisms of *Embllica officinalis* Gaertn in countering nephrotoxicity in rats induced by the chemotherapeutic agent cisplatin. **Frontiers in Pharmacology** 2016 Oct 3; 7: 350.
50. Javed H, Azimullah S, Abul Khair SB, **Shreesh Ojha**[✉], Haque ME. Neuroprotective effects of nerolidol against neuroinflammation and oxidative stress induced by rotenone. **BioMed Central Neuroscience** 2016 Aug 22;17(1):58.
51. Javed H, Azimullah S, Haque ME, **Shreesh Ojha**[✉]. Cannabinoid type 2 (CB2) receptors activation protects against oxidative stress and neuroinflammation associated dopaminergic neurodegeneration in rotenone model of Parkinson's disease. **Frontiers in Neuroscience** 2016 Aug 2;10: 321.
52. Chanchal SK, Mahajan UB, Siddharth S, Reddy N, Goyal SN, Patil PH, Bommanahalli BP, Patil CR, **Shreesh Ojha**[✉]. In vivo and in vitro protective effects of omeprazole against neuropathic pain. **Scientific Reports** 2016 Jul 20; 6: 30007.
53. **Shreesh Ojha**, Javed H, Azimullah S, Haque ME. β -Caryophyllene, a phytocannabinoid attenuates oxidative stress, neuroinflammation, glial activation, and salvages dopaminergic neurons in a rat model of Parkinson disease. **Molecular and Cellular Biochemistry** 2016 Jul;418(1-2):59-70.
54. Suchal K, Bhatia J, Malik S, Malhotra RK, Gamad N, Goyal S, Nag TC, Arya DS, **Shreesh Ojha**[✉]. Seabuckthorn Pulp Oil Protects against Myocardial Ischemia-Reperfusion Injury in Rats through Activation of Akt/eNOS. **Frontiers in Pharmacology** 2016 Jun 29; 7: 155.
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56. Nurulain SM, Shafiullah M, Yasin J, Adem A, Kaabi JA, Tariq S, Adeghate E, **Shreesh Ojha**[✉]. Terbufos-sulfone exacerbates cardiac lesions in diabetic rats: a sub-acute toxicity study. **Archives of Industrial Hygiene and Toxicology** 2016 Jun 1;67(2):126-35.
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58. Sharma C, Biswas NR, **Shreesh Ojha**, Velpandian T. Comprehensive evaluation of formulation factors for ocular penetration of fluoroquinolones in rabbits using cassette-dosing technique. **Drug Design Development and Therapeutics** 2016 Feb 22; 10: 811-23.
59. **Shreesh Ojha**, Javed H, Azimullah S, Abul Khair SB, Haque ME. Glycyrrhizic acid Attenuates Neuroinflammation and Oxidative Stress in Rotenone Model of Parkinson's Disease. **Neurotoxicity Research** 2016 Feb;29(2):275-87.
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Book Chapters

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Selected Abstracts and Presentations

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2. **Shreesh Ojha**, S. Azimullah, H. Al Tae, M.F.N. Meeran. "Cardioprotective effect of (-) α -Bisabolol in animal model of myocardial infarction." Poster presented at the 65th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA), Basel, Switzerland, 3-7 September 2017. *Planta Medica International Open* 4, no. S01 (October 2017): S1-S202.
3. **Shreesh Ojha**, H Al Tae, A Sheikh, A Adem. Myrcene restores hemodynamic and cardiac contractile function and mitigates myocardial infarction in rats, Ps 16-09. Presented at International Society of Hypertension Annual Meeting at Seoul, S Korea and published in. *Journal of Hypertension* 34, e468
4. **Shreesh Ojha**, C Sharma, A Sheikh, A Adem. Beta-Caryophyllene Protects against Myocardial Infarction in Experimental Diabetes through CB2 Receptor Activation and the PPAR-gamma Pathway. American Diabetes Association, Boston, USA abstract published in *Diabetes*, 2015;64: A609-A609.
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21. **Shreesh Ojha**, Nandave M, Arya DS, Gupta SK. Myocardial salvaging effect of *Ocimum sanctum* in isoproterenol induced myocardial infarction. Proceedings of Joint International Conference of International Society for Heart Research (ISHR, Indian section) and International Academy of Cardiovascular Sciences (IACS), 9th-11th January 2004, Lucknow.
22. Nandave M, Mohanty I, Arya DS, **Shreesh Ojha**, Gupta SK. Cardioprotective effects of hydro-alcoholic extract of *Withania somnifera* against isoproterenol- induced myocardial stress in rats. Proceedings of Joint International Conference of International Society for Heart Research (ISHR, Indian section) and International academy of cardiovascular Sciences (IACS), 9th-11th January 2004, Lucknow.
23. **Shreesh Ojha**, Arya DS, Nandave M and Gupta SK. Cardioprotective effects of hydro-alcoholic extract of *Withania somnifera* (Ashwagandha) on isoproterenol- induced myocardial infarction in rats. Proceedings of National Workshop on

- "Institute-Industry Interaction on Research in Unani Medicine to Identify Areas of Collaboration". Jamia Hamdard, New Delhi, 2004.
24. Nandave M, **Shreesh Ojha**, Arya DS, Gupta SK. Cardioprotective effects of hydro-alcoholic extract of *Glycyrrhiza glabra* (*Mulethi*) against isoproterenol- induced myocardial stress in rats. Proceedings of National Workshop on "Institute-Industry Interaction on Research in Unani Medicine to Identify Areas of Collaboration". Jamia Hamdard, New Delhi, 2004.
 25. **Shreesh Ojha**, Singh U, Arya DS, Nandave M, Gupta SK. Bosentan, a mixed ET_A-ET_B receptor antagonist provides cardioprotection in experimental induced myocardial infarction. Proceedings of International Symposium on Recent Advances in Pharmacology, New Delhi, 2004.
 26. Nandave M, **Shreesh Ojha**, Arya DS, Gupta SK. BMS 182874, a selective ET_A-receptor antagonist in experimental induced myocardial infarction. Proceedings of International Symposium on Recent Advances in Pharmacology, New Delhi, 2004.
 27. **Shreesh Ojha**, Nandave M, Mohanty I, Kumari S, Arya DS. An experimental study on cardioprotective properties of Turmeric (*Curcuma longa*). Proceedings of Third All India Science Conference, 2004, New Delhi.
 28. Nandave M, **Shreesh Ojha**, Mohanty I, Kumari S, Arya DS. An experimental study on cardioprotective properties of Tulsi (*Ocimum sanctum*). Proceedings of Third All India Science Conference, 2004, New Delhi.
 29. Arya DS, Nandave M, **Shreesh Ojha**, Mohanty I, Kumari S. An experimental study on cardioprotective properties of Ashwagandha (*Withania somnifera*). Third All India Science Conference, New Delhi, 2004.
 30. Mohanty I, Kumari S, **Shreesh Ojha**, Nandave M, Arya DS. An experimental study on cardioprotective properties of Liquorice (*Glycyrrhiza glabra*). Proceedings of Third All India Science Conference, New Delhi, 2004.
 31. Arya DS, Singh U, Nandave M, **Shreesh Ojha**, Gupta SK. Cardioprotection from ischemia and reperfusion injury by *Glycyrrhiza glabra*: A hemodynamic, biochemical and histopathological assessment. Proceedings of Joint International Conference of International Society for Heart Research (ISHR, Indian section) and International Academy of Cardiovascular Sciences (IACS), Lucknow, 2004.
 32. Arya DS, Singh U, Nandave M, **Shreesh Ojha**, Gupta SK. Cardioprotective effect of *Glycyrrhiza glabra* in experimentally induced myocardial infarction in rats. Proceedings of International Symposium on Recent Advances in Pharmacology, New Delhi, 2004.
 33. **Shreesh Ojha**, Nandave M, Narang R, Joshi S, Dinda A, Arya DS. Cardioprotective effect of *Tribulus terrestris*: an experimental study. Proceedings of Association of Physiologists & Pharmacologists of India, Golden APPICON 19th-22nd December 2004, Bangalore, 2004.
 34. Nandave M, **Shreesh Ojha**, Narang R, Joshi S, Dinda A, Arya DS. The effect of hydro-alcoholic extract of *Bacopa monniera* against isoproterenol-induced exogenous stress in rat heart. Proceedings of Association of Physiologists & Pharmacologists of India, Golden APPICON 19th-22nd December 2004, Bangalore, 2004.
 35. Arya DS, **Shreesh Ojha**, Dinda AK, Narang R, Nandave M. Cardioprotective effect of tomato lycopene in experimental model of myocardial infarction: a hemodynamic, biochemical and histopathological study. Proceedings of Association of Physiologists & Pharmacologists of India, Golden APPICON 19th-22nd December 2004, Bangalore, 2004.
 36. Arya DS, Mohanty I, Nandave M, **Shreesh Ojha**, Gupta SK. Mechanisms for cardioprotective effects of *Withania somnifera* on myocardial function and antioxidant milieu in an ischaemia reperfusion model of myocardial infarction. Proceedings of Joint International Conference of International Society for Heart Research (ISHR, Indian section) and International Academy of Cardiovascular Sciences (IACS), 29th December 2004-1st January 2005, Ahmedabad, 2005.
 37. Arya DS, **Shreesh Ojha**, Nandave M. Cardioprotective potential of lycopene in the experimental model of myocardial infarction. Proceedings of XXXVII Annual Conference Indian Pharmacological Society 14th-16th January 2005, Kolkata
 38. Nandave M, **Shreesh Ojha**, Arya DS. Molecular basis for the cardioprotective response to chronic administration of *Bacopa monniera* (brahmi) in experimental model of myocardial infarction. Proceedings of XXXVII Annual Conference of Indian Pharmacological Society 14th-16th January 2005, Kolkata.
 39. **Shreesh Ojha**, Nandave M, Joshi S, Arya DS. Cardioprotective effect of *Andrographis paniculata* in myocardial ischemic-reperfusion injury in rats. XXXIX Annual Conference of Indian Pharmacological Society, Jaipur
 40. Nandave M, **Shreesh Ojha**, Joshi S, Arya DS. Cardioprotective effect of *Commiphora mukul* in the animal models of myocardial ischemia-reperfusion injury. Annual Conference of International Society for Heart Research, held at DIPSAR, Delhi

41. **Shreesh Ojha**, Nandave M, Joshi S, Arya DS. Protective effect of herbal formulation in ischemic-reperfusion injury of myocardium: an antiapoptotic and antioxidant intervention. Annual Conference of Indian Pharmacological Society, Chandigarh.
42. **Shreesh Ojha**, Nandave M, Joshi S, Arya DS. Cardioprotective effect of *Andrographis paniculata* in myocardial ischemic-reperfusion injury in rats. XXXIX Annual Conference of Indian Pharmacological Society, Jaipur
43. **Shreesh Ojha**, Nandave M, Joshi S, Arya DS. Antiapoptotic and antioxidant effect of *Tribulus terrestris* in ischemia-reperfusion injury. Annual Conference of Indian Pharmaceutical Congress (IPC), New Delhi.
44. **Shreesh Ojha**, Arguedes L, Walker JW. G protein coupled receptor dimerization in living cells. University of Arizona Research Meet, Tucson, Arizona.

Invited presentations

1. **Shreesh Ojha**. The serotonin signaling system: From basic understanding to drug development for functional GI disorders. CME 'Updates in Gastroenterology, Dubai 5 May 2012.
2. **Shreesh Ojha**. The cannabinoid signaling system: From basic understanding to drug development for cardiovascular diseases at R. Patel College of Pharmaceutical Education and Research, Shirpur. India.
3. **Shreesh Ojha**. The cannabinoid signaling system: From basic understanding to drug development for neurodegenerative diseases at All India Institute of Medical Sciences, New Delhi, India.

Research Grants - Principal investigator

- The therapeutic role of natural bioactive agents of natural origin in experimental model of rotenone-induced Parkinson's disease
Source: Zayed Center for Health Sciences, UAEU Budget: 500,000AED (~\$127000), Duration: 2015-18
- The therapeutic role of natural bioactive agents of natural origin in an experimental model of myocardial ischemic reperfusion injury.
Source: Univ. Program for Advanced Res., UAEU, Budget: 500,000AED (~\$127,000), Duration: 2014-18
- The therapeutic role of cannabinoid type-2 receptor modulators in an experimental model of rotenone-induced Parkinson's disease
Source: CMHS, UAEU, Budget: 200,000 AED (~\$54,000), Duration: 2016-2017
- Investigation on the role of naturally occurring phytocannabinoids in the rat model of ischemic reperfusion injury
Source: Sheikh Hamdan Bin Rashid Al Maktoum Award for Medical Sciences, UAE, Budget: 150000 AED (~\$39000), Duration: 2013-15, Dr. Shreesh Ojha (PI), Dr. Ali Humaid Al-Marzouqi (Co-PI)
- Molecular Investigation into the Chemoprevention of Breast Cancer by the Combination of Camel milk and Urine: *in vitro* and *in vivo* Studies
Source: SQU-UAEU Collaborative Grant, Budget: 150,000 AED (~\$40,000), Duration: 2012-15, Dr. Allal Ouhtit (PI-SQU)
- To investigate the pharmacotherapeutic potential and underlying mechanism of phytocannabinoids in experimental model of cardiometabolic diseases.
Source: UPAR, UAEU, Duration: 2014-17, Budget: 500,000 AED (~\$135,000)
- Pharmacological evaluation of multitargeted bioactive agents [Peroxisome Proliferator Activated Receptor- γ ; and Cannabinoid Receptor type-2] in diabetes and its complications
Source: National Research Foundation, UAEU, Budget: 280,000AED (~\$73000), Duration: 2012-14
- To investigate the therapeutic potential of endocannabinoid system in murine model of metabolic syndrome
Source: CMHS, UAEU, Budget: 140,000 AED (~\$38000), Duration: 2013-15
- Title: Studying the cardioprotective role of thymoquinone in animal model of myocardial infarction.
Duration: 2012-2014, Budget: 40,000 AED (~\$11000), Source: Seed grant, CMHS
- To study the role of bioactive agents possessing PPAR- γ agonist activity against myocardial ischemic injury in rat model of type 2 diabetes.
Duration: 2011-12, Budget: 34,000 AED, Source: CMHS, UAE University
- Studying the pharmacotherapeutic potential and underlying mechanism of bioactive agents targeting PPAR- γ /CB₂ receptors in animal models of cardiometabolic diseases
Duration: 2012-13, Budget: 39,000 AED=11,000 USD, Source: CMHS, UAEU

Research Grants - Co-Principal Investigator

- Role of thiamine (Vitamin B1) in mitigating acetaminophen-induced acute liver toxicity: Physiological and molecular mechanisms, Duration: 2015-17, Total budget: 140,000 AED (~\$36,000).
- A Randomised Controlled Trial of Vitamin Supplementation Post Bariatric Surgery: Sleeve Gastrectomy
Role: Co-PI, Duration: 2015-17, Budget: 150,000 AED (~\$39,000), Source: Sheikh Hamdan Award for Medical Sciences
- To investigate the pharmacotherapeutic potential and underlying mechanism of cannabinoids in experimental model of myocardial ischemic reperfusion injury. Duration: 2016-2020, Budget: 280,000 AED (~\$75,000)

SERVICES

I have also been actively involved in providing professional and community services to the CMHS as well as institutions of the UAEU. These committees are of broad range covering undergraduate and graduate teaching, research activities and student's enrollment and faculty and staff selections and appointments. I have also been member of conference organizing team and member of several learned and professional scientific association or societies. I am also managing various courses as coordinator and co-coordinator of basic pharmacology and preclinical program of undergraduate medical course as well as several modules of Pathophysiology and Therapeutics of Pharm D program. Currently, I am supervising three Master's student and member of Thesis Advisory committee of many master and doctoral student of Pharmacology.

Current academic services - CMHS

Contributed as member in the following committees at CMHS

- Member of Higher Professional Training Committee: 2011-till date
- Member of Medical Examination Board (Pharmacology representative): 2014-2016
- Member of Undergraduate Student Admission Committee: 2014-till date
- Member of Master's Admission Committee (Pharmacology): 2011-till date
- Member of Pharm D Admission Committee: 2011-till date
- Member of Asset Audits of CMHS: 2011-till date

Member of research priority groups

- Member of the Neuroscience Priority research group 2012-till date
- Member of the Diabetes and Cardiovascular research group 2012-till date

Co-ordination of courses

Undergraduate courses

- Coordinator of Respiratory System Module – Preclinical year 1 2013-till date
- Coordinator of Cardiovascular Module – Preclinical year 1 2013-2015
- Co-coordinator of Basic Pharmacology 2011-till date

Pharm D course co-ordination

- Coordinator of Pathophysiology & Therapeutics I, Pharm D 2015-2017
- Coordinator of Pathophysiology & Therapeutics II, Pharm D 2015-2017
- Coordinator of Pathophysiology & Therapeutics III, Pharm D 2015-2017
- Coordinator of Pathophysiology & Therapeutics IV, Pharm D 2015-2017
- Coordinator Pharmacy Economics & Health Management, Pharm D 2015-2017
- Coordinator of Poisoning and Drug Overdose, Pharm D 2015-2017

Graduate level

- Coordinator of General Systemic Pharmacology 2015-2017

Administrative/professional responsibilities

- Interim Chair on ad hoc basis of the department
- Director of the University Animal Research facility since 2011 at university level
- Interim Chair University Animal Research Ethics Committee since (2016-17)
- Member of the Space Allocation Committee and Facility Management
- Member of the University Animal Research Ethics Committee since 2014 at university level
- Member of the Resources and Space Allocation Committee

Contributions as chair for curriculum & course content development

- Chair for committee of content development for the Cardiopulmonary course, preclinical year-1
- Chair for committee of content development for the Neuroscience Module, preclinical year-2

- Member of Course Transformation for Smart Learning: 2014-till date
- Member of the MD Curriculum Development Committee 2017-till date
- Member of the M.Sc./PhD Course Development Committee 2017-till date
- Member of Planning group for Respiratory module: 2013- till date
- Member of Planning group for Cardiovascular module: 2013- till date

Contributions as member or department representative in different course content development

- Member of standard settings for final examination of Infection, Immunity and Inflammation module: 2014-present
- Member for site visit meetings preparations, self-study report writing and review for the accreditation of Pharm D program Member of standard settings for final examination of Renal and Urinary systems module: 2014-present
- Member of standard settings for final examination of Basic Pharmacology module: 2014-present
- Member in the committee for content development for the curriculum of Infection, Inflammation and Immunity module, preclinical year-1
- Member in the committee on content development for Mind, Brain and Behavior module, preclinical year-2
- Member in the committee on content development for Renal & Urogenital system module, preclinical year-1

Membership of Professional/Scientific Societies

- American Physiological Society (2016 - till date)
- International Society of Ethno pharmacology (2016 - till date)
- Society of Neuroscience, USA (2014 - till date)
- Society of Toxicology, USA (2011 - till date)
- International Society for Heart Research (ISHR) (2004 - till date)
- International Academy of Cardiovascular Sciences (IACS) (2004 - till date)
- International Society of Ethnopharmacology (ISE) (2004 - till date)

External examiner

- External examiner for PhD candidate of Dr. APJ Abdul Kalam University, Lucknow, India.
- External examiner for PhD candidate of Bhartidasan University, Tamilnadu, India.
- External examiner for PhD candidate of Nirma University, Ahmedabad, India.
- External examiner for PhD Pharmacology of All India Institute of Medical Sciences, India.
- External examiner for MSc Pharmacology of All India Institute of Medical Sciences, India.

Member of Selection/Recruitment Committees

- Assistant Professor, Department of Veterinary Pharmacology, CFA, UAE University
- Associate Professor, Department of Anatomy, CMHS, UAE University
- Assistant Professor, Department of Pharmacology, CMHS, UAE University
- Veterinary officer, University Animal Research Facility
- Assistant Professor, Department of Physiology, CMHS, UAE University
- Medical Research Specialist, Department of Pharmacology, CMHS, UAE University
- Research Assistant, Department of Pharmacology, CMHS, UAE University
- Research Assistant, Department of Physiology, CMHS, UAE University
- Research Assistant, Department of Biochemistry, CMHS, UAE University

Professional Development/ Faculty development workshop attended:

Smart board for teaching, Item Writing & Analysis, Curriculum Management & Assessment Management System, Team-Based Learning (TBL), Blueprinting, Topic & Outline: Advancing Outcomes Based Medical Education, Assessment Standard Setting, Examination scores - Rationale, derivation and interpretation Workshop, Writing of educational objectives, Proposal Writing and Submission.

Conference Organization

- Advisory member of International Conference on Bioinformatics and Systems Biology, 4th to 6th March 2016, Indian Institute of Information Technology (IIIT), Allahabad
- 4th Indian Academy of Biomedical Sciences, Hyderabad, India
- Technical Committee of 4th Int. Conference on Biomedicine and Pharmaceutics, Zhuhai, China, 27-29th May 2016

Editorial board member of peer reviewed indexed journals

- Editorial board member of The Open Neurology Journal, Bentham Science Publishers.
- Lead Guest Editor ‘Natural bioactive agents for cardiovascular protection’– BioMed Research International, IF - 1.579
- Lead Guest Editor ‘Herbal Medicines and Natural Products Targeting G Protein-Coupled Receptors in Management of Diseases’ - Evidence Based Complementary and Alternative medicine (eCAM) - Impact factor-1.880
- Served as editor (year 2012-16) of African Journal of Pharmacy and Pharmacology, indexed journal
- International Journal of Pharmaceutical Sciences and Drug Research
- International Journal of Pharmacy and Pharmaceutical Sciences
- International Journal of Clinical Pharmacology & Pharmacotherapy
- Global Journal of Physiology and Pharmacology

Peer Reviewer for Indexed Journals

- Reviewer of several reputed journals of Elsevier, Springer, Karger, Frontiers, Hindawi, MDPI and Wiley