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Latest update

- Received **ICMR & DST International Travel grant** for participating ISH conference, South Korea & XIII ICPPS, Dubai bet 10-11 March 2015
- Filed **two patents** in last three years at Indian patent office
- Published International paper with cumulative impact factor more than **159.88 (2017)**
- Lead Guest editor for PPAR Research Journal (IF: 2.509) & Guest editors for e-CAM (IF: 1.858) & BMC Pharmacology (IF: 2.000)




Research projects sanctioned

#	Project title	Funding agency	Amount	Year	Role
Government sponsored project					
1	Role of EC in metabolic syndrome	SERB EMR	35 lakhs	2017	Principal investigator
2	Evaluation of the effect of Formononetin in experimental models of microvascular complications in diabetic rats	N-PDF SERB	20 lakhs	2017	Mentor
3	Investigation of neurotransmitter in metabolic diseases	ECR SERB	38 lakhs	2017	Principal investigator
4	To investigate the role of PPAR in diabetes associated cardiomyopathy	Young Scientist Award-SERB DST	24.50 lakhs	2014-2017 (Completed)	Principal investigator
5	Development of MTX NLC...psoriasis	DBT, New Delhi	22.50 lakhs	2014-2017 (Completed)	Co-Principal investigator
6	Anti-inflammatory and Anti-arthritis	CCRH, Dept. of AYUSH, New Delhi	19 lakhs	2014-2016 (Completed)	Co-Principal investigator
Industry sponsored consultancy project					
1	Wound healing properties of coated compound	Austin Lab, New York, USA	5 lakhs	August to October 2015 (Completed)	Co-Principal investigator




Research Experience (4 years)

-  **Post-doctoral Research Fellow** (Translational Medicine, Department of Biomedical Sciences): Creighton University, Omaha, NE, USA (2009- 2010).
-  **Senior Research Fellow in ICMR funded project:** 3 years (2006-2009)

Industrial Experience (2.3 year)

-  **Assistant Manager**, Scientific Analytics Team at BioXcel Corporation, Gurgaon (6 months)
-  **Team Leader**, Scientific Analytics Team at BioXcel Corporation, Gurgaon (1.3 year)
-  **Senior Analyst**, Scientific Analytics Team at BioXcel Corporation, Gurgaon (6 months)






Academic Experience (5.5 years)

-  **Principal**, SVKM's, Institute of Pharmacy, Dhule (From June 2017)
-  **Associate Professor (Pharmacology):** R. C. Patel Institute of Pharmaceutical Education and Research, Karwand Naka, Shirpur, Dist- Dhule, Maharashtra (425405), India (4.5 years)
-  **Lecturer in Pharmacology**, H. R. Patel women's College of Pharmacy, Shirpur, Maharashtra, INDIA (1 year)

Educational Qualifications

#	Degree	University	Year	Subjects	Percentage
1	Post-Doctoral Fellow (PDF)	Creighton University, Omaha, NE, USA	2009-2010	Pharmacology	Awarded
2	Ph.D.	AIIMS, New Delhi	2006-2009	Pharmacology	Awarded
3	M. Pharmacy	University Department of Pharmaceutical Sciences, Nagpur	2003-2005	Pharmacology	75% (Distinction; University Topper)
4	B. Pharmacy	North Maharashtra University, Jalgaon	1999-2002	Pharmacy	71% (Distinction, Gold Medalist)
5	D. Pharmacy	Mumbai Board	1997-1999	Pharmacy	75% (Distinction)

Awards/Achievements

-  Received **DST International Travel grant** for participating XIII ICPPS, Dubai bet 10-11 March 2015
-  Stood **First** in the order of Merit in the RTM Nagpur University during Masters in Pharmacy (Pharmacology).
-  **Gold Medal by Indian Pharmaceutical Association (IPA)** at Graduation level for securing highest percentage in university.
-  **Gold Medal from North Maharashtra University, Jalgaon** (Maharashtra)
-  **Award from Drug Manufacturer Association, Nasik** for best performance

- G. P. Nair Award from Indian Drug Manufacturers Association (IDMA)
- Stood **First** in the order of Merit in Jalgaon region in Diploma in Pharmacy
- Achieved GATE'02--- 92.46 Percentile
- GATE'03--- 98.33 Percentile
- GATE'04--- 90.76 Percentile



Patent

- ® Intracavitary, Extemporaneous, Self-assembling, extended release formulations for drug administrations and diagnostic purposes (**Ref: 5602**) Status: Submitted to **Indian Patent Office**, Mumbai
- ® Intraurethral self assemble sustain release formulation of certain drugs in bladder cancer, (**Ref: 8933**) Status: Submitted to **Indian Patent Office**, Mumbai

Publications/Paper Reviewed Journals

- 🌀 Total international research publication: 49
- 🌀 Total review article published: 9
- 🌀 Total impact factor: 159.88

Citation indices	All	Since 2012
Citations	676	569
h-index	14	16
i10-index	22	16

Mahajan UB, Walake Ajit, Chaudhari S, **Goyal SN**, and Patil C R. Anti-inflammatory Homeopathic Drug Dilutions Restrain LPS-induced Release of Pro-inflammatory Cytokines: in vitro and in vivo evidences **Indian Journal of Research in Homeopathy**, in press.

Patil PD, Mahajan UB, Patil KR, Chaudhari S, Patil CR, Agrawal YO, Ojha S, **Goyal SN**. Past and current perspective on new therapeutic targets for Type-II diabetes. **Drug Des Dev Ther.** 2017 May 22; 11:1567-1583. (Impact factor-2.9)

Suchal K, Malik S, Khan SI, Malhotra RK, **Goyal SN**, Bhatia J, Ojha S, Arya DS. Molecular Pathways Involved in the Amelioration of Myocardial Injury in Diabetic Rats by Kaempferol. **Int J Mol Sci.** 2017 May 15; 18(5). (Impact factor-3.9)

Chaudhary G, Mahajan UB, **Goyal SN**, Ojha S, Patil CR, Subramanya SB. Protective effect of Lagerstroemia speciosa against dextran sulfate sodium induced ulcerative colitis in C57BL/6 mice. **Am J Transl Res.** 2017 Apr 15; 9(4):1792-1800. (Impact factor-3.1)

- Mahajan UB, Chandrayan G, Patil CR, Arya DS, Suchal K, Agrawal YO, Ojha S, **Goyal SN**. The Protective Effect of Apigenin on Myocardial Injury in Diabetic Rats mediating Activation of the PPAR- γ Pathway. **Int J Mol Sci**. 2017 Apr 4; 18(4). (Impact factor-3.9)
- Khatri CK, Indalkar KS, Patil CR, **Goyal SN**, Chaturbhuj GU. Novel 2-phenyl-4, 5, 6, 7-tetrahydro[b]benzothiophene analogues as selective COX-2 inhibitors: Design, synthesis, anti-inflammatory evaluation, and molecular docking studies. **Bioorg Med Chem Lett**. 2017 Apr 15; 27(8):1721-1726. (Impact factor-2.8)
- Jahan S, Kumar D, Chaturvedi S, Rashid M, Wahajuddin M, Khan YA, **Goyal SN**, Patil CR, Mohanraj R, Subramanya S, Ojha S. Therapeutic Targeting of NLRP3 Inflammasomes by Natural Products and Pharmaceuticals: A Novel Mechanistic Approach for Inflammatory Diseases. **Curr Med Chem**. 2017 Feb 27. (Impact factor-2.8)
- Suchal K, Malik S, Khan SI, Malhotra RK, **Goyal SN**, Bhatia J, Kumari S, Ojha S, Arya DS. Protective effect of Mangiferin on myocardial ischemia-reperfusion injury in streptozotocin-induced diabetic rats: role of AGE-RAGE/MAPK pathways. **Sci Rep**. 2017 Feb 9; 7:42027. (Impact factor-5.59)
- Kamble SM, Patel HM, **Goyal SN**, Noolvi MN, Mahajan UB, Ojha S, Patil CR. In silico Evidence for Binding of Pentacyclic Triterpenoids to Keap1-Nrf2 Protein-Protein Binding Site. **Comb Chem High Throughput Screen**. 2017; 20(3):215-234. (Impact factor-1.8)
- Chaudhari H, **Goyal S**, Patil C. Neonates with sickle cell disease are vulnerable to blue light phototherapy-induced oxidative stress and proinflammatory cytokine elevations. **Med Hypotheses**. 2016 Nov; 96:78-82. (Impact factor-4.1)
- Patil CR, Sonara BM, Mahajan UB, Patil KR, Patil DD, Jadhav RB, **Goyal SN**, Ojha S. Chemomodulatory Potential of Bartogenic Acid Against DMBA/Croton Oil Induced Two-Step Skin Carcinogenesis in Mice. **J Cancer**. 2016 Oct 23; 7(14):2139-2147. (Impact factor-3.99)
- Suchal K, Malik S, Gamad N, Malhotra RK, **Goyal SN**, Bhatia J, Arya DS. Kaempferol protects against oxidative stress and apoptotic damage in experimental model of isoproterenol-induced cardiac toxicity in rats. **Phytomedicine**. 2016 Nov 15; 23(12):1401-1408. (Impact factor-2.88)
- Malik S, Suchal K, Bhatia J, Khan SI, Vasisth S, Tomar A, **Goyal S**, Kumar R, Arya DS, Ojha SK. Therapeutic Potential and Molecular Mechanisms of *Emblca officinalis Gaertn* in Countering Nephrotoxicity in Rats Induced by the Chemotherapeutic Agent Cisplatin. **Front Pharmacol**. 2016 Oct 3; 7:350. (Impact factor-4.1)
- Gore PR, Prajapati CP, Mahajan UB, **Goyal SN**, Belemkar S, Ojha S, Patil CR. Protective Effect of Thymoquinone against Cyclophosphamide-Induced Hemorrhagic Cystitis through Inhibiting DNA Damage and Upregulation of Nrf2 Expression. **Int J Biol Sci**. 2016 Jun 7; 12(8):944-53. (Impact factor-3.9)
- Suchal K, Bhatia J, Malik S, Malhotra RK, Gamad N, **Goyal S**, Nag TC, Arya DS, Ojha S. Seabuckthorn Pulp Oil Protects against Myocardial Ischemia-Reperfusion Injury in Rats through Activation of Akt/eNOS. **Front Pharmacol**. 2016 Jun 29; 7:155. (Impact factor-4.1)
- Chanchal SK, Mahajan UB, Siddharth S, Reddy N, **Goyal SN**, Patil PH, Bommanahalli BP, Kundu CN, Patil CR, Ojha S. In vivo and in vitro protective effects of omeprazole against neuropathic pain. **Sci Rep**. 2016 Jul 20; 6:30007. (Impact factor-5.59)
- Ojha S, Al Tae H, **Goyal S**, Mahajan UB, Patil CR, Arya DS, Rajesh M. Cardioprotective Potentials of Plant-Derived Small Molecules against Doxorubicin Associated Cardiotoxicity. **Oxid Med Cell Longev**. 2016; 2016:5724973 (Impact factor-4.5)

Suchal K, Malik S, Gamad N, Malhotra RK, **Goyal SN**, Chaudhary U, Bhatia J, Ojha S, Arya DS. Kaempferol Attenuates Myocardial Ischemic Injury via Inhibition of MAPK Signaling Pathway in Experimental Model of Myocardial Ischemia-Reperfusion Injury. **Oxid Med Cell Longev**. 2016; 2016:7580731. (Impact factor-4.5)

Goyal SN, Mahajan UB, Chandrayan G, Kumawat VS, Kamble S, Patil P, Agrawal YO, Patil CR, Ojha S. Protective effect of oleanolic acid on oxidative injury and cellular abnormalities in doxorubicin induced cardiac toxicity in rats. **Am J Transl Res**. 2016 Jan 15; 8(1):60-9. (Impact factor-3.15)

Sharma C, Al Kaabi JM, Nurulain SM, **Goyal SN**, Kamal MA, Ojha S. Polypharmacological Properties and Therapeutic Potential of β -Caryophyllene: A Dietary Phytocannabinoids of Pharmaceutical Promise. **Curr Pharm Des**. 2016; 22(21):3237-64. (Impact factor-1.8)

Suchal K, Malik S, Gamad N, Malhotra RK, **Goyal SN**, Ojha S, Kumari S, Bhatia J, Arya DS. Mangiferin protect myocardial insults through modulation of MAPK/TGF- β pathways. **Eur J Pharmacol**. 2016 Apr 5; 776:34-43. (Impact factor-2.92)

Goyal SN, Sharma C, Mahajan U, Patil CR, Agrawal YO, Kumari S, Arya DS, Ojha S. Protective Effects of Cardamom in Isoproterenol-Induced Myocardial Infarction in Rats. *International J. Medical Sciences* (Impact factor-2.862)

Navya Reddy, Mahajan UB, Patil CR, Ojha S, **Goyal SN** Eplerenone attenuates cardiac dysfunction and oxidative stress in β -receptor stimulated myocardial infarcted rats. **American Journal of Translational Research**, Accepted, (Impact factor-3.402)

Buwa CC, Mahajan UB, Patil CR, **Goyal SN**. Apigenin Attenuates β -Receptor-Stimulated Myocardial Injury Via Safeguarding Cardiac Functions and Escalation of Antioxidant Defence System. **Cardiovasc Toxicol**. 2015 Jul 18. [Epub ahead of print] PubMed PMID: 26186996. (Impact factor-1.721)

Patil KR*, **Goyal SN***, Ojha S, Sharma C, Patil CR Phytocannabinoids for Cancer Therapeutics: Recent Updates and Future Prospects, **Current Medicinal Chemistry**, 2015, July 16. **both authors have equal contribution* (Impact factor-3.853)

Patil KR, Mohapatra P, Patel HM, **Goyal SN**, Ojha S, Kundu CN, Patil CR. Pentacyclic Triterpenoids Inhibit IKK β Mediated Activation of NF- κ B Pathway: In Silico and In Vitro Evidences. **PLoS One**. 2015 May 4;10(5): PMID: 25938234 (Impact factor-3.534)

Haidarali S, Patil CR, Ojha S, Mohanraj R, Arya DS, **Goyal SN**. Targeting apoptotic pathways in myocardial infarction: attenuated by phytochemicals. **Cardiovasc Hematol Agents Med Chem**. 2014;12(2):72-85. PubMed PMID: 25613030.

Goyal SN, Kumar A, Haidarali S, Reddy N, Arya DS, Patil CR Prediabetes: grounds of pitfall signalling alteration for cardiovascular disease. **RSC Adv.**, 2014,4, 58272-58279. DOI: 10.1039/C4RA10366A (Impact factor-3.721)

Agrawal YO, Sharma PK, Shrivastava B, Ojha S, Upadhya HM, Arya DS, **Goyal SN**. Hesperidin Produces Cardioprotective Activity via PPAR- γ Pathway in Ischemic Heart Disease Model in Diabetic Rats. **PLoS One**. 2014 Nov 4;9(11) PMID: 25369053 (Impact factor-3.534)

Maniya PJ, Kamble SM, **Goyal SN**, Patil CR, Nephroprotection by oleanolic and ursolic acid against cisplatin is comparable to amifostine. **World Journal Of Pharmacy And Pharmaceutical Sciences**, Volume 3, Issue 3, 1677-1686. (Impact factor-2.650)

Kamble SM, **Goyal SN**, Patil CR Multifunctional pentacyclic triterpenoids as adjuvants in cancer chemotherapy: a review. **RSC Adv.**, 2014, 4, 33370–33382 (Impact factor-3.721)

- Agrawal YO, Sharma PK, Shrivastava B, Arya DS, **Goyal SN**. Hesperidin blunts streptozotocin-isoproterenol induced myocardial toxicity in rats by altering of PPAR- γ receptor. **Chem Biol Interact**. 2014 Jun 19;219C:211-220. PMID: 24954035. (Impact factor-2.999)
- Goyal SN**, Bharti S, Krishnamurthy B, Agrawal Y, Ojha SK, Arya DS. Impact of metabolic syndrome on re-stenosis development: Role of drug-eluting stents. **Diab Vasc Dis Res**. 2012 Jan 4, PubMed PMID: 22219135. (Impact factor-2.468)
- Malik S, **Goyal SN**, Ojha SK, Bharti S, Nepali S, Kumari S, Singh V, Arya DS. Seabuckthorn attenuates cardiac dysfunction and oxidative stress in isoproterenol-induced cardiotoxicity in rats. **Int J Toxicol**. 2011, Dec;30(6):671-80. PubMed PMID: 21960663. (Impact factor-1.762)
- Goyal SN**, Bharti S, Sahoo KC, Sharma AK, Arya DS. Valsartan, an angiotensin II receptor blocker, attenuates cardiac dysfunction and oxidative stress in isoproterenol-induced cardiotoxicity. **Cardiovasc Toxicol**. 2011 Jun;11(2):148-56. PubMed PMID: 21380857. (Impact factor-1.809)
- Sharma AK, Bharti S, **Goyal S**, Arora S, Nepal S, Kishore K, Joshi S, Kumari S, Arya DS. Upregulation of PPAR γ by Aegle marmelos ameliorates insulin resistance and β -cell dysfunction in high fat diet fed-streptozotocin induced type 2 diabetic rats. **Phytother Res**. 2011 Oct;25(10):1457-65, PubMed PMID: 21351301. (Impact factor-1.746)
- Goyal SN**, Bharti S, Bhatia J, Nag TC, Ray R, Arya DS. Telmisartan, a dual ARB/partial PPAR- γ agonist, protects myocardium from ischaemic reperfusion injury in experimental diabetes. **Diabetes Obes Metab**. 2011 Jun;13(6):533-41, PubMed PMID: 21320264. (Impact factor-4.126)
- Arya DS, **Goyal SN**, Ojha SK. Pyruvate attenuates cardiac dysfunction and oxidative stress in isoproterenol-induced cardiotoxicity. **Experimental and Toxicologic Pathology**, 2010 Nov 1 PubMed PMID: 21050735 (Impact factor-1.431)
- Goyal SN**, Bharti S, Arora S, Arya DS. Cardioprotective effects of BQ-123, a selective endothelin-A receptor antagonist in the experimental model of myocardial ischemic reperfusion injury. **Biomed. Pharmacotherapy**, 2010 Nov;64(9):639-46. PubMed PMID: 20888175 (Impact factor- 2.220)
- Goyal SN**, Arora S, Bhatt T, Das P, Sharma A, Kumari S, Arya DS. Modulation of PPAR-gamma by telmisartan protects the heart against myocardial infarction in experimental diabetes. **Chem Biol Interact**, 2010, May 14, 185(3):271-80. PMID: 20307515 (Impact factor- 3.012)
- Goyal SN**, Arora S, Mittal R, Joshi S, Nag TC, Ray R, Kumari S, Arya DS. Myocardial salvaging effect of telmisartan in experimental model of myocardial infarction. **Eur J Pharmacol**. 2009 Oct 1;619(1-3):75-84. PMID: 19664617. (Impact factor-2.585)
- Goyal SN**, Arora S, Sharma AK, Joshi S, Ray R, Bhatia J, Kumari S, Arya DS. Preventive effect of crocin of *Crocus sativus* on hemodynamic, biochemical, histopathological and ultrastructural alterations in isoproterenol-induced cardiotoxicity in rats. **Phytomedicine**. 2010 Mar;17(3-4):227-32. PMID: 19747807. (Impact factor-2.174)
- Sahoo KC, Arora S, **Goyal SN**, Kishore K, Ray R, Nag TC, Arya DS. Cardioprotective effects of benazepril, an angiotensin converting enzyme inhibitor in ischemia-reperfusion model of myocardial infarction in rats. **JRAAS**, 2009 Dec;10(4):201-9. PMID: 20026869 (Impact factor-1.968)
- Goyal S**, Siddiqui MK, Siddiqui KM, Arora S, Mittal R, Joshi S, Arya DS. Cardioprotective effect of 'Khamira Abresham Hakim Arshad Wala' a Unani formulation in isoproterenol-induced myocardial necrosis in rats. **Exp Toxicol Pathol**. 2010 Jan;62(1):61-74. PMID: 19285846. (Impact factor-1.431)
- Goyal SN**, Upadhyaya MA, Kokare DM, Bhisikar SM, Subhedar NK. Neuropeptide Y modulates the antidepressant activity of imipramine in olfactory bulbectomized rats: involvement of NPY Y1 receptors. **Brain Res**. 2009 Apr 17; 1266:45-53. PMID: 19254701. (Impact factor-2.463)

Goyal SN, Kokare DM, Chopde CT, Subhedar NK. Alpha-melanocyte stimulating hormone antagonizes antidepressant-like effect of neuropeptide Y in Porsolt's test in rats. **Pharmacol Biochem Behav.** 2006 Oct; 85(2):369-77. PMID: 17052748. (Impact factor-2.655)

Goyal SN, S Arora, M Nandave, SK Ojha, S Kumari and DS Arya. New therapeutic targets for myocardial infarction. **Current Science**, Vol. 95, No. 3, 2008, 332-339 (Impact factor-0.912)

Nandave M, Nandave D, Ojha SK, Goyal SN, Arya DS. Multiple biological activities of Boerhaavia diffusa. **Indian Drugs** 2007; 44, (6): 417-427.

Ojha SK, Nandave M, Goyal SN, Arya DS. Cardioprotective potential of turmeric: preclinical and clinical evidences. **Indian Drugs** 2007; 44(9): 653-663.

Seminars/Workshops Attended

- ✓ Poster Presentation at International conference of XII ICPPS, Dubai March 10-11, 2015
- ✓ Attended Hands-on-training on “Advanced Approaches in Proteomics” organized by PERD, Ahmedabad on 27-29 January 2014
- ✓ Best poster prize in National Pharmaceutical Congress at SVKM, NMIMS, Shirpur on January 10-11, 2014
- ✓ Resource person in AICTE sponsored Faculty Development Program at RCPIPER, Shirpur on 27 May to 8th June 2013.
- ✓ Abstract was presented in 22nd European meeting on hypertension & cardiovascular protection 2013 held in London
- ✓ Abstract was accepted in 16th World Congress of Basic and Clinical Pharmacology, WorldPharma2010, to be held in Copenhagen, Denmark.
- ✓ Attended Transactional Pharmacology Seminars at AIIMS, New Delhi
- ✓ Attended Drug Safety Seminars at AIIMS, New Delhi
- ✓ Attended Pharmacovigilance Seminars at AIIMS, New Delhi
- ✓ Goyal SN, Arora S, Ascidia J, Tanwar V, Joshi S, Kishor K, Nag TC, Arya DS. Cardio protective effect of Telmisartan: An angiotensin-II receptor antagonist in ISP induced myocardial necrosis in rats. “Second International Symposium on Recent Advances in Cardiovascular Sciences”, 2008, New Delhi, page 48
- ✓ Arora S, Goyal SN, Sachdeva J, Tanwar V, Joshi S, Kishor K, Nag TC, Arya DS. Nicotinamide treatment salvages rat myocardium from ISO-induced myocardial necrosis. “Second International Symposium on Recent Advances in Cardiovascular Sciences”, 2008, New Delhi, page 48
- ✓ Sachdeva J, Tanwar V, Goyal SN, Arora S, Joshi S, Kishor K, Arya DS. Coleus Forskholii: An herbal compound exhibits deleterious effects on rat myocardium as seen in experimentally induced myocardial necrosis. “Second International Symposium on Recent Advances in Cardiovascular Sciences”, 2008, New Delhi, page 47
- ✓ Tanwar V, Sachdeva J, Arora S, Goyal SN, Joshi S, Kishor K, Arya DS. Curcumin-induced Cardio protection: A Direct Correlation of Up regulated Antioxidant activity with Heat Shock Protein 27. “Second International Symposium on Recent Advances in Cardiovascular Sciences”, 2008, New Delhi, page 46
- ✓ Indo-US symposium on novel therapeutic approaches for the treatment of neurological disorders. (New Delhi, Nov'07)

- ✓ Mini-symposium on Data Safety Monitoring Board (DSMB). (New Delhi, Sep. 2007)
- ✓ A multidisciplinary symposium on Therapeutic Drug Monitoring for better therapeutics and drug development (New Delhi, Feb'07)
- ✓ Attended Workshop on Good Laboratory Practices (GLP) for academia (New Delhi, Nov'06)