

## **BIO-DATA**

1. Name: **Prof. Rajesh Kumar Goel**
2. Designation: **Dean Faculty of Medicine  
and Former Head**
3. Department: **Pharmaceutical Sciences  
and Drug Research**
4. Date of Birth: **05/02/1972**
5. Address for Correspondence: **#197-A, Royal Enclave,  
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Patiala**
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  - E-mail: **[goelrkpup@gmail.com](mailto:goelrkpup@gmail.com)**
6. Areas of Specializations: **Neuropsychopharmacology, Phytopharmacology,  
Pharmacogenomics and Computer Aided New Drug  
Discovery Using PASS**



### 7. Academic Qualifications:

S.No	Degree Held	Year	Board/Univ./ Inst.	% of marks	Div./ Rank	Subjects Taken
1	<b>B. Pharm.</b>	1993	Amravati University, Amravati, (M.S.) India	62.8	Ist	<b>Pharmaceutical Sciences</b>
2	<b>M. Pharm.</b>	1995	Panjab University, Chandigarh, India	66.6	Ist	<b>Pharmacology</b>
3	<b>Ph.D.</b>	2004	Panjab University, Chandigarh, India	-	-	<b>Pharmacology</b>

### 8. Membership of Professional Bodies/Organizations:

- **President - APTI Punjab State Branch (2015-2017),(2017-2019)**
- **Former Executive Member - Indian Pharmacological Society**
- **Former Chairman IAEC, Punjabi University Patiala 2010-13**
- **Member of National Academy of Sciences, Allahabad**
- **Member of PG Curriculum Committee - Pharmacy Council Of India**

- **Member Society for Neurosciences(SFN) Washington DC, USA**
- **Member Secretary, Institution Ethics Committee, Punjabi University**
- **Member of Scientific Services Committee - Indian Pharmaceutical Congress**
- **Life member of Indian Pharmaceutical Association**
- **Life member of Indian Pharmacological Society**
- **Life member Indian Neurological society**
- **Life member of Association Pharmaceutical Teacher of India**
- **Member of Research Board Committee, Punjabi University**
- **Member, Board of Control, Punjabi University**
- **Subject Expert in IAEC of Punjabi University, Patiala(2014 onwards)**

9. Medals/Awards/Honors/Received:

- **Junior Research Fellowship During M. Pharmacy from UGC, Ministry of Human Resource and Development, New Delhi, India**
- **Travel award form DST to present my work in international conference on “Mechanism Based Natural Product Development” at Whistler Mountain, Vancouver BC in 2012**
- **Travel award from CSIR to present my work in international conference of Society for Neurosciences SFN-2013 at San Diego, USA**
- **Travel award form DST to present my work in international conference of Society for Neurosciences SFN-2015 at Chicago USA**

10. Academic Responsibilities Held:

- **Project Evaluation Committee Member ( Area Of Scientific Research) To [Government of Italy](#)**
  - **Project Evaluation Committee Member to SERB, Department of Science and Technology, India**
  - **Project Evaluation Committee Member to United Arab Emirates University, UAE.**
  - **Project Evaluation Committee Member to National Research Foundation, South Africa.**
  - **AICTE( All India Council For Technical Education) Evaluation Committee Member for Inspection in Various Colleges and Universities across India.**
  - **Pharmacy Council Of India Evaluation Committee Member for Inspection in Various Colleges and Universities across India.**
  - **Punjab Technical education board Evaluation Committee Member Inspection in Various Colleges and Universities across Punjab.**
  - **CPCSEA Nominee in-**
1. Punjab Institute of Medical Sciences, Jalandhar.

2. Chitkara University, Rajpura.
3. Rayat Bahra University, Mohali
4. Baba Farid University of Health Sciences, Faridkot

• **Member of Board of Studies/ Selection Committee Member -**

1. Kurukshetra University, Kurukshetra
2. Maharaja Ranjit Singh Punjab technical University , Bathinda
3. Punjab Technical University, Kapurthala
4. Adesh University, Bathinda
5. Gurukul Kangri University, Haridwar
6. Rayat Bahra University, Shimla
7. Chitkara University, Patiala
8. Maharaja Aggarsen University, Baddi
9. Maharishi Markendeshwar University, Ambala.

And various other Institutions.

**11. International Visits: 8 ( Russia(5) , USA(2) , Canada(1) )**

**12. International Invited Lectures/ Academic Exposures-**

- UNIVERSITY OF FINDLAY, OHIO, DETROIT, USA. (2013)
- MIDWESTERN UNIVERSITY, CHICAGO,USA (2015)
- INSTITUTE OF BIOMEDICAL CHEMISTRY, MOSCOW ( 2011, 2013, 2016 ,2017 ,2018)
- PIROGOV MEDICAL UNIVERSITY,MOSCOW ( 2017, 2018)
- UNIVERSITY OF CALGARY, CANADA. (2012)
- SAINT PETERSBURG STATE CHEMICAL AND PHARMACEUTICAL ACADEMY, SAINT PETERSBURG.(2017)

**13. International Collaborators**

- **Prof Vladimir Poroikov ( Institute of Biomedical Chemistry, Moscow)**
- **Prof Alexey Lagunin ( Pirogov Russian National Medical University , RNRMU)**
- **Prof Dmitry Druzhilovskii( IBMC, Moscow)**
- **Prof Gerald W. Zamponi ( Canada Research Chair, University of Calgary)**
- **Prof. Hamid Noori ( Max Planck Institute of Cybernetics, Germany)**
- **Prof. Athina Geronikaki ( Aristotelian University of Thessaloniki, Greece)**
- **Dr. Chris Bladen ( Macquarie University, Sydney, Australia)**
- **Dr. Tanveer Singh ( University of Virginia, USA) ( PhD Student )**
- **Dr. Dinesh Gawande ( Creighton University,USA) ( PhD Student )**

**14. National Collaborators**

- **Prof. Garikapati Narahari Sastry ( Chief Scientist, CSIR-IICT, Hyderabad)**
- **Prof S.K. Kulkarni ( Former Pro VC- Panjab University, Chandigarh)**

- Prof M.P. Mahajan ( Former Professor and Head, Guru Nanak Dev University, Amritsar) ( Presently in Hungary)
- Prof Mohan Paul Singh Ishar ( Vice Chancellor, MRSPTU, Bathinda, Punjab)
- Prof B.V. Rao ( CSIR-IICT , Hyderabad)
- Prof Bikram Singh ( CSIR-IHBT, Palampur)
- Prof P.K. Sehajpal ( Guru Nanak Dev University, Amritsar )
- Prof. Rakesh Sahay ( Osmania Medical College, Hyderabad)
- Prof Manisha Sahay ( Osmania Medical College, Hyderabad)
- Prof Raghubir Chand Gupta ( Punjabi University Patiala)
- Prof Parveen Balgir ( Punjabi University, Patiala)
- Dr. Awanish Mishra ( NIPER Raibareilly) ( **PhD Student**)
- Dr. Damanpreet Singh ( CSIR-IHBT, Palampur) ( **PhD Student**)

15. Reviewer to Journals (*Reviewer in more than 40 journals; List of a few*):

- Bio-organic Med Chem. Let.
- Medical Science Monitor
- Journal of clinical Psychopharmacology
- Method and Findings
- Molecules
- Medicinal Chemistry Research
- Inflammopharmacology
- Journal of Ethnopharmacology
- Molecular Medicine
- Neurochemical Research
- Neurochemistry International
- Epilepsy & Behavior
- Phytotherapy Research

16. Details of Experience:

S.No.	Employer	Designation	Nature of duties	Duration
1	Principal, Shivalik College of Pharmacy	Lecturer	Teaching (UG Level)	2 years
2	Registrar, Guru Nanak Dev University, Amritsar	Lecturer and Lecturer in Senior Scale	Teaching & Research (UG and PG Level)	10 years
3	Registrar, Punjabi University, Patiala	Reader	Teaching & Research (UG, PG, and Doctoral Level)	3 years
4	Registrar, Punjabi University, Patiala	Associate Prof. & Head	Teaching & Research (UG, PG, and Doctoral Level)	3 years

5	Registrar, Punjabi University, Patiala	<b>Professor and Former Head</b>	Teaching & Research (UG, PG, and Doctoral Level)	Since April 2013
6	Registrar, Punjabi University, Patiala	<b>Dean Faculty of Medicine</b>	Administration of Academic Affairs of Medicine Faculty	Since August 2018

17. Published Work (Please specify numbers only):

- a) Research Papers : 84  
b) Conference/Seminar Presentation = More than 60  
c) Books
- Original: (Chapter)
  - Edited:

18. R & D Projects:

S No	Funding Agency	Title	Grant (Rs)	Status
1	UGC, New Delhi	<b>Synthesis and evaluation of monocyclic <math>\beta</math>-lactams as hypocholesterolemic agents</b>	20000	Completed
2	CSIR, New Delhi	<b>Synthesis and evaluation of Novel 1,4-Dihydropyridines</b>	9.5 lacs	Completed
3.	UGC, New Delhi (2008-10)	<b>Computer Aided Virtual Designing, Synthesis and Evaluation Of Benzimidazoles As Neuropsychopharmacological Agents</b>	70000	Completed
4	UGC, New Delhi (2009-12)	<b>Phytopharmacological investigations of Anticonvulsant potential of <i>Ficus religiosa</i> ( F.34-130/2008(SR))</b>	5.92 lacs	Completed
5	ICMR, New Delhi (2011-14)	<b>To study the neurobiology of epilepsy induced cognitive deficit and possible treatment approaches (45/33/2010/PHA-BMS)</b>	7.32 lacs	Completed
6	Indo-Russian joint project, DST, New Delhi (2011-13)	<b>Computer-Aided Study of Hidden Potential in Traditional Indian Medicine and Its Pharmacological Validation ( RUSP 1176)</b>	16.47 lacs	Completed

7	CSIR, New Delhi (2013-16)	<b>Phytopharmacological Studies for exploration of Anticonvulsant Profile of Indian Asparagus species (38/1339)/12/EMR-II)</b>	23.47 lacs	Completed
8	ICMR, New Delhi (2015-2018)	<b>“Bioinformatics guided selection and evaluation of active chemical entities for comprehensive treatment of epilepsy and associated depression”.</b>	10.08 lacs	In Progress
8	Indo-Russian joint project, Funded by DST, New Delhi and RFBR, Moscow (2016-18)	<b>Network Pharmacology based identification of Phytomolecules from traditional Indian medicine for effective treatment of dementia</b>	22.40 lacs	In progress
9	Indo-Russian joint project, DST, New Delhi RSF, Moscow (2016-19)	<b>A knowledge based approach to Drug repurposing for socially important and rare diseases</b>	120 lacs	In progress

19. Ph.D. Students Guided/Under Guidance (Details):

S. No	Name of the student	Title of thesis	Status
1	<b>Sumit Gupta</b>	Pharmacogenomics of Antihypertensive Therapy in Rural Population of Haryana	Awarded
2	<b>Sudeep Bhardwaj</b>	Pharmacogenomics of Antihypertensive Therapy and its Complications	over
3	<b>Damanpreet Singh</b>	Phytochemical and Pharmacological Investigations of Anticonvulsant Potential of <i>Ficus religiosa</i>	Awarded
4	<b>A w a n i s h Mishra</b>	Psychoneuropharmacological Investigations to Reveal Pathobiology of Cognition Deficit in Epilepsy	Awarded
5	<b>Heena Goyal</b>	Cytogenetical and Chemical Characterization of some Selected North Indian Medicinal Composites.	Awarded
6	<b>D i n e s h Gawande</b>	Exploring Novel Pharmacological Potential of Traditional Indian Medicinal Plants Using Integrated Approach	Awarded
7	<b>P r i y a n k a Pahwa</b>	Phytopharmacological Studies for exploration of Anticonvulsant Profile of Indian Asparagus species	Awarded

8	<b>Tanveer Singh</b>	Pharmacological studies to explore comprehensive target for treatment of depression associated with epilepsy	Awarded
9	<b>S a n d e e p Kumar</b>	Pharmacological studies to reveal possible pathological pathways associated with development of pharmacoresistant epilepsy	ongoing
10	<b>S a r o j Pradhan</b>	Cytomorphological diversity of gamopetalous medicinal plants of uttarkashi district (Uttarakhand)	ongoing
11	<b>J a s p r e e t Kaur</b>	Functional analysis of nsSNP of beta adreno receptor and RAAS gene among hypertensive punjabi population	ongoing
12	<b>Nikhil Shri Sehajpal</b>	Underpinning the pathophysiological mechanisms of diabetic retinopathy	ongoing

20. M.Pharm./M.Tech Students Guided:

S.No	Name of student	Title of dissertation	Year
1	<b>Tajpreet Kaur</b>	Investigation of Role of HMG co A Reductase Inhibition and PPAR $\gamma$ Activation on Sodium Arsenite Induced Vascular Endothelial Dysfunction in Rats	2007
2	<b>Damanpreet Singh</b>	Neuropsychopharmacological Studies of <i>Ficus religiosa</i>	2008
3	<b>Navneet Khurana</b>	Neuropsychpharmacological Studies of Substituted Pyrimidines as Novel Nicotine Analogues	2008
4	<b>Harjeet Kaur</b>	Mecahnistic Study of Nootropic Activity of <i>Ficus religiosa</i>	2008
5	<b>Navpreet Kaur</b>	Neuropsychpharmacological Studies of 5-Quinoline Substituted Pyrimidone Derivatives	2008
6	<b>Arvind Desai</b>	Bioequivalence Study of Olanzapine Orodispersable 10 mg Tablets of Two Different Brands and Assessment of Inter Individual Pharmacokinetic Variability In Healthy Human Volunteers	2008
7	<b>Pooja Chhabra</b>	Comparitive Study of <i>Boswellia serrata</i> for Anti-inflammatory and Analgesic Activity with Some Standard Anti-inflammatory Drugs in Different Animal Models.	2008
8	<b>Munish Mittal</b>	Evaluation of Novel Monocyclic 1,3,4-trisubstituted- $\beta$ -lactams and Vitamin D in Animal Models of Depression	2008
9	<b>Bhupinder Singh</b>	Studies on Neuropharmacological properties of <i>Passiflora incarnata</i>	2009
10	<b>Mandeep Kaur</b>	Anticonvulsant studies of <i>Boerhaavia diffusa</i>	2009
11	<b>Parveen Bagga</b>	Evaluation of neuroprotective potential of <i>Ficus religiosa</i>	2009
12	<b>Ramandeep Kaur</b>	Studies on Cobalt Chloride-induced Status Epilepticus	2010
13	<b>Raibarinder</b>	Anti-inflammatory Potential of Bark of <i>Ficus religiosa</i>	2010

14	<b>Rakesh</b>	Efficacy and safety study of conventional antidepressants for post ictal depression associated with epilepsy in PTZ Kindled mice	2011
15	<b>Kailash</b>	Studies on explore ameliorative effect of <i>Curcumin</i> on 8ncarnate8etrazole induced kindling and associated comorbidities	2011
16	<b>Paramdeep Singh</b>	To study the synergism of flavonoids with phenytoin for epilepsy and associated co-morbidities in animal models.	2011
17	<b>Rohit Hassija</b>	Pharmacological Studies to reveal Antiepileptic Potential of <i>Asparagus racemosus</i>	2012
18	<b>Jasmin Punia</b>	Pharmacological Studies to reveal Antiepileptic Potential of Piperine	2012
19	<b>Harseerat</b>	Pharmacogenomics of Aldose Reductase Inhibitor in the Treatment of Diabetic Neuropathy in Indian Ethnic Population	2012
20	<b>Tanveer Singh</b>	Neuroprotective effect of <i>Alium cepa</i> in aluminium chloride induced neurotoxicity: possible involvement of PPAR-gamma.	2013
21	<b>Puneet Kaur</b>	Ameliorative effect of <i>Passiflora incarnata</i> on PTZ induced kindling and associated psychiatric co- morbidities	2013
22	<b>Deepdarshan</b>	To explore the antidiabetic effect of some Indian medicinal plants; <i>in silico</i> , <i>in vitro</i> and <i>in vivo</i> studies.	2013
23	<b>Navjot Kaur</b>	Revealing neurochemical basis of PTZ kindling resistance	2014
24	<b>Neetu</b>	Exploring comprehensive potential of Agmatine PTZ induced kindling and associated psychiatric co- morbidities	2014
25	<b>Dilpreet Kaur</b>	Studies to explore anxiolytic, anticonvulsant and antiepileptogenic effects of Nerolidol	2015
26	<b>Sandeep Kumar</b>	Pharmacological Studies to explore ameliorative effect of taurine supplementation on pharmacoresistant epilepsy in mice.	2015
27	<b>Harleen Kaur</b>	<i>In silico</i> guided selection and evaluation of phytochemicals for effective management of Catamenial epilepsy.	2016
28	<b>Taranjot Kaur</b>	<i>In vitro</i> guided adjuvant therapy for comprehensive management of epilepsy and associated depression in animal model of TLE.	2016
29	<b>Anureet Kaur</b>	To investigate the role of IDO inhibition L-methionine vascular dementia in mice	2017
30	<b>Ashmanpreet</b>	To investigate the ameliorative effect of harmaline through L-Methionine induced cognitive impairment	2017
31	<b>Gurvinder Kaur</b>	<i>In silico</i> guided selection and evaluation of phytomolecules for the management of L-Methionine induced cognitive impairment	2017
32	<b>Jagroop Singh</b>	To investigate the ameliorative effect of glycogen synthase kinase 3 beta antagonism in chronic cerebral hypoperfusion induced vascular cognitive impairment	2018



33	<b>Mohit Chawla</b>	Studies to explore the antiseizure effect of exogenous ketone in drug resistant epilepsy using a battery of experimental models	2018
34	<b>Lovepreet Kaur Benipal</b>	To investigate the ameliorative effect of bradykinin b2 receptor antagonism in chronic cerebral hypoperfusion induced vascular cognitive impairment	2018

21. List of Papers/Courses taught at P.G. and U.G. Level:

S. No.	Paper	Class
1.	Pharmacology	<b>B. Pharm.</b>
2.	Clinical Pharmacy-I	<b>B. Pharm.</b>
3.	Clinical Biochemistry	<b>B. Pharm.</b>
4.	Clinical pharmacy-II (Clinical Pharmacology)	<b>B. Pharm.</b>
5	Advanced Pharmacology I (clinical Pharmacology and Drug Therapy)	<b>M. Pharm.</b>
6	Advanced Pharmacology II (Drug Evaluation and Advanced Pharmacological Techniques)	<b>M. Pharm.</b>
7	Advanced Pharmacology III (Recent Advances)	<b>M. Pharm.</b>

22. Technical Proficiency:

- **PASS assisted Phytopharmacology**
- **Pharmacogenomics**
- **Neuropsychopharmacology; Epileptology**

23. List of Papers Published:

1. Sahajpal NS, Jain S, Vig V, Singh P, Singh R, Singh H, Singh K, **Goel RK**, Yasuda J, Wright D, Chaubey A. Insulin in the vitreous humor of patients with proliferative diabetic retinopathy. **Investigative Ophthalmology & Visual Science**. 2018 Jul 13;59(9):5366. Impact factor (2016): 3.303.
2. Sahajpal NS, Vig VK, Singh R, Singh H, Chaubey A, Singh K, Goel RK, Jain SK. Deranged metabolic profile and identification of biomarkers in the vitreous humour of patients with proliferative diabetic retinopathy. **Protein and peptide letters**. 2018 Aug. Impact Factor (2017): 1.039.

3. Pradhan SK, Gupta RC, **Goel RK**. Comparative high-performance thin-layer chromatography profiling of *Saussurea lappa* and *Saussurea auriculata*. **JPC-Journal of Planar Chromatography-Modern TLC**. 2018 Aug;31(4):332-6. Impact Factor (2017): 0.459
4. Gupta RC, Goyal H, **Goel RK**, Singh V. New and Varied Chromosome Reports in Twenty-Six Species of the Family Asteraceae from Cold Deserts of the Western Himalaya. *Cytologia*. 2018 Jun 25;83(2):215-20. Impact Factor (2017): 0.481
5. Gupta RC, Goyal H, Singh V, **Goel RK**. Male meiosis in 18 species of 07 genera of the tribe Astereae (Asteraceae) from Western Himalaya. **The Nucleus**. 2018 Aug 1;61(2):95-104. Impact Factor (2016): 2.387
6. Bezhtentsev V, Ivanov S, Kumar S, **Goel RK**, Poroikov V. Identification of potential drug targets for treatment of refractory epilepsy using network pharmacology. **Journal of bioinformatics and computational biology**. 2018 Feb;16(01):1840002. Impact Factor (2013): 0.931.
7. Pradhan SK, Gupta RC, **Goel RK**. Differential content of secondary metabolites in diploid and tetraploid cytotypes of *Siegesbeckia orientalis* L. **Natural product research**. 2018 Jan 14:1-7. Impact Factor (2016): 1.826.
8. **Goel RK**, Gawande DY, Lagunin AA, Poroikov VV. Pharmacological repositioning of *Achyranthes aspera* as an antidepressant using pharmacoinformatic tools PASS and PharmaExpert: a case study with wet lab validation. **SAR and QSAR in Environmental Research**. 2018 Jan 2;29(1):69-81. Impact Factor (2017): 2.227.
9. Murtazaliev KA, Druzhilovskiy DS, **Goel RK**, Sastry GN, Poroikov VV. How good are publicly available web services that predict bioactivity profiles for drug repurposing? **SAR and QSAR in Environmental Research**. 2017 Oct 3;28(10):843-62. Impact Factor (2017): 2.227
10. Pradhan SK, Gupta RC, **Goel RK**, Preet R. Simultaneous determination of chlorogenic and caffeic acid in *Siegesbeckia orientalis* L. (*Xi Xian*) by a validated high-performance thin-layer chromatographic method. **JPC-Journal of Planar Chromatography-Modern TLC**. 2017 Dec; 30(6):516-20. Impact Factor (2015): 0.57.
11. Kumar S, **Goel RK**. Taurine supplementation to anti-seizure drugs as the promising approach to treat pharmaco-resistant epilepsy: A pre-clinical study. **International Journal of Epilepsy**. 2017 Jul 1;4(2):119-24.
12. Sharma RK, Singh T, Mishra A, **Goel RK**. Relative Safety of Different Antidepressants for Treatment of Depression in Chronic Epileptic Animals Associated with Depression. **J Epilepsy Res**. 2017 Jun 30;7(1):25-32. Impact Factor (2017): 2.49.
13. Singh T, Kaur T, **Goel RK**. Ferulic Acid Supplementation for Management of Depression in Epilepsy. **Neurochemical research**. 2017 Oct 1;42(10):2940-8. Impact Factor (2012): 2.1
14. Singh T, Bagga N, Kaur A, Kaur N, Gawande DY, **Goel RK**. Agmatine for combined treatment of epilepsy, depression and cognitive impairment in chronic epileptic animals. **Biomed Pharmacother**. 2017 Aug;92:720-725. doi: 10.1016/j.biopha.2017.05.085. Epub 2017 Jun 4. Impact Factor (2015): 1.86.
15. Kaur N, Singh T, Kumar S, **Goel RK**. Neurochemical evidence based suggested therapy for safe management of epileptogenesis. **Epilepsy Behav**. 2017 Jul;72:8-16. Impact Factor (2013): 2.01.
16. Gawande DY, Druzhilovsky D, Gupta RC, Poroikov V, **Goel RK**. Anticonvulsant activity and acute neurotoxic profile of *Achyranthes aspera* Linn. **J Ethnopharmacol**. 2017 Apr 18;202:97-102. Impact Factor (2014): 2.99.

17. Singh T, Kaur T, **Goel RK**. Adjuvant quercetin therapy for combined treatment of epilepsy and comorbid depression. **Neurochem Int.** 2017 Mar;104:27-33. Impact Factor (2017): 3.62.
18. Singh T, **Goel RK**. Managing epilepsy-associated depression: Serotonin enhancers or serotonin producers? **Epilepsy Behav.** 2017 Jan;66:93-99. Impact Factor (2013): 2.61.
19. T Singh, **RK Goel (2017)** Adjuvant neuronal nitric oxide synthase inhibition for combined treatment of epilepsy and comorbid depression. **Pharmacological Reports** 69 (1), 143-149. Impact Factor (2017): 2.78.
20. T Singh, **RK Goel (2017)** Managing epilepsy-associated depression: Serotonin enhancers or serotonin producers? **Epilepsy & Behavior** 66, 93-99. Impact Factor (2017): 2.60.
21. Singh T, Kaur T, Goel RK. Adjuvant quercetin therapy for combined treatment of epilepsy and comorbid depression. **Neurochemistry international.** 2017 Mar 1;104:27-33. Impact Factor (2017): 3.60.
22. P Pahwa, **RK Goel (2016)** Asparagus adscendens root extract enhances cognition and protects against scopolamine induced amnesia: An in-silico and in-vivo studies **Chemico-Biological Interactions** 260, 208-218. Impact Factor (2017): 3.29.
23. A Mishra, **RK Goel (2016)** Chronic 5-HT 3 receptor antagonism ameliorates seizures and associated memory deficit in pentylenetetrazole-kindled mice **Neuroscience** 339, 319-328. Impact Factor (2017): 3.382.
24. D Kaur, P Pahwa, **RK Goel (2016)** Protective Effect of Nerolidol against Pentylenetetrazol-Induced Kindling, Oxidative Stress and Associated Behavioral Comorbidities in Mice. **Neurochemical research** 41 (11), 2859-2867. Impact Factor (2017): 2.72.
25. Singh D, **Goel RK (2016)** Anticonvulsant mechanism of saponins fraction from adventitious roots of *Ficus religiosa*: possible modulation of GABAergic, calcium and sodium channel functions. **Revista Brasileira de Farmacognosia** (<http://dx.doi.org/10.1016/j.bjp.2015.10.007>). Impact Factor (2017): 1.596.
26. Kaur D, Pahwa P, **Goel RK (2016)** Protective Effect of Nerolidol against Pentylenetetrazol-Induced Kindling, Oxidative Stress and Associated Behavioral Comorbidities in Mice. **Neurochemical Research** (DOI:[10.1007/s11064-016-2001-2](https://doi.org/10.1007/s11064-016-2001-2)). Impact Factor (2017): 2.72.
27. Singh T, **Goel RK (2016)** Evidence in support of using a neurochemistry approach to identify therapy for both epilepsy and associated depression. **Epilepsy & Behavior** 61,248-257. Impact Factor (2017): 2.60.
28. Goel RK, Kaur D, Pahwa P(2016) Assessment of anxiolytic effect of nerolidol in mice. **Indian Journal of Pharmacology** 48(4);450. Impact Factor (2017): 0.902.
29. R Sharma, DY Gawande, C Mohan, **RK Goel (2016)** Synthesis and anticonvulsant activities of functionalized 5-(isoindole-1, 3-dione)-pyrimidinones **Medicinal Chemistry Research** 25 (7), 1420-1424. Impact Factor (2017): 1.60
30. Singh T, **Goel R K (2016)**Adjuvant indoleamine 2, 3-dioxygenase enzyme inhibition for comprehensive management of epilepsy and comorbid depression. **European journal of pharmacology** 784,111-120. Impact Factor (2017): 3.040.
31. Pahwa P, **Goel RK (2016)** Ameliorative effect of *Asparagus racemosus* root extract against pentylenetetrazol-induced kindling and associated depression and memory deficit. **Epilepsy & Behavior** 57, 196-201. Impact Factor (2017): 2.60.

32. Lagunin AA, Druzhilovsky DS, **Goel RK**, Rudik AV, Filimonov DA, Gawande D (2016) Capacities of computer evaluation of hidden potential of phytochemicals of medicinal plants of the traditional Indian Ayurvedic medicine **Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry** 10 (1), 43-54.
33. Pahwa P, **Goel RK** (2016) Absence of anticonvulsant activity in *Asparagus adscendens* Roxb. hydroethanolic root extract against acute pentylenetetrazol and maximal electroshock-induced convulsion mice models **Journal of Pharmaceutical Negative Results** 7 (1), 25-28. Impact Factor (2015): 0.77.
34. Gawande DY, **Goel RK** (2015) Pharmacological validation of *in-silico* guided novel nootropic potential of *Achyranthes aspera* L. **Journal of Ethnopharmacology** 175, 324-334. Impact Factor (2017): 3.115.
35. Mishra A, Punia JK, Bladen C, Zamponi GW, **Goel RK** (2015) Anticonvulsant mechanisms of piperine, a piperidine alkaloid **Channels** 9 (5), 317-323. Impact Factor (2017): 2.53.
36. Singh T, **Goel RK** (2015) Neuroprotective effect of *Allium cepa* L. in aluminium chloride induced neurotoxicity. **Neurotoxicology** 49, 1-7. Impact Factor (2017): 3.076.
37. Singh P, Singh D, **Goel RK** (2015) Protective effect on phenytoin-induced cognition deficit in pentylenetetrazol kindled mice: A repertoire of *Glycyrrhiza glabra* flavonoid antioxidants **Pharmaceutical biology**, 1-1. Impact Factor (2017): 3.382
38. **Goel RK**, Gawande DY, Lagunin A, Randhawa P, Mishra A, Poroikov V (2015) Revealing Medicinal Plants That Are Useful for the Comprehensive Management of Epilepsy and Associated Comorbidities through In Silico Mining of Their Phytochemical Diversity. **Planta Medica** 81 (6), 495-50. Impact Factor (2017): 3.382
39. Bhardwaj S, Balgir PP, **Goel RK** (2015) Pharmacogenomics and personalized management of hypertension **Journal of Critical Reviews** 2 (2) Impact Factor (2017): 3.382
40. Lagunin AA, Druzhilovsky DS, Rudik AV, Filimonov DA, Gawande D, ... [Computer evaluation of hidden potential of phytochemicals of medicinal plants of the traditional Indian ayurvedic medicine]. **Biomeditsinskaia khimiia** 61 (2), 286-297. Impact Factor (2017): 3.382.
41. Mishra A, Goel RK. Comparative behavioral and neurochemical analysis of phenytoin and valproate treatment on epilepsy induced learning and memory deficit: search for add on therapy. Metabolic brain disease. 2015 Aug 1;30(4):951-8. Impact Factor (2017): 3.382
42. Gupta S, Chattopadhyaya I, Agrawal BK, Sehajpal PK, **Goel RK** (2015) Correlation of renin angiotensin system (RAS) candidate gene polymorphisms with response to Ramipril in patients with essential hypertension. **Journal of Postgraduate Medicine** 61 (1), 21. Impact Factor (2017): 3.382
43. Singh P, Singh D, **Goel RK** (2014) *Ficus religiosa* L. figs—A potential herbal adjuvant to phenytoin for improved management of epilepsy and associated behavioral comorbidities **Epilepsy & Behavior** 41, 171-178. Impact Factor (2017): 3.382
44. Singh P, Singh D, **Goel RK** (2014) Phytoflavonoids: Antiepileptics For The Future **International Journal of Pharmacy and Pharmaceutical Sciences** 6 (8), 51-66. Impact Factor (2017): 3.382.
45. Mishra A, **Goel RK** (2014) Adjuvant Anticholinesterase Therapy for the Management of Epilepsy-induced Memory Deficit: A Critical Preclinical Study. **Basic & Clinical Pharmacology & Toxicology**. Impact Factor (2017): 3.382.

46. Garg K, Bansal Y, Bansal G, **Goel RK (2014)** Design, synthesis, and PASS-assisted evaluation of novel 2-substituted benzimidazole derivatives as potent anthelmintics. **Medicinal Chemistry Research** 23 (5), 2690-2697. Impact Factor (2017): 3.382.
47. D, Gawande DY, Singh T, Poroikov V, **Goel RK (2014)** Revealing pharmacodynamics of medicinal plants using *in silico* approach: A case study with wet lab validation **Computers in biology and medicine** 47, 1-6. Impact Factor (2017): 3.382.
48. Lagunin AA, **Goel RK**, Gawande DY, Pahwa P, Glorizova TA, ...**(2014)** Chemo-and bioinformatics resources for in silico drug discovery from medicinal plants beyond their traditional use: a Singh critical review **Natural Product Reports** 31 (11), 1585-1611. Impact Factor (2017): 3.382
49. Bhardwaj S, Balgir PP, **Goel RK (2014)** Incidence of new onset of type-2 diabetes with the use of atenolol for treatment of hypertension in north indian population: No role of irs-1 and kir 6.2 Gene polymorphism **Journal of Pharmaceutical Negative Results** 5 (1), 50. Impact Factor (2017): 3.382.
50. Singh G, Bansal Y, Bansal G, **Goel RK (2014)** Design, Synthesis and PASS Assisted Evaluation of Novel 2-Substituted Benzimidazole Derivatives as Potent Anthelmintics **Medicinal Chemistry** 10(4), 418-25. Impact Factor (2017): 3.382.
51. Mishra A, **Goel RK (2013)**. Psychoneurochemical Investigations to Reveal Neurobiology of Memory Deficit in Epilepsy. **Neurochemical research** 38 (12), 2503-2515. Impact Factor (2017): 3.382.
52. **Goel RK**, Singh D **(2013)** Exploring selective serotonergic modulation involved in anticonvulsant effect of *Ficus religiosa* fig Extract. **Indian Journal of Pharmacology** 45(5), 97–98. Impact Factor (2017): 3.382.
53. Choudhary KM, Mishra A, Poroikov VV, **Goel RK (2013)** Ameliorative effect of curcumin on seizure severity, depression like behavior, learning and memory deficit in post pentylenetetrazole-kindled mice. **European Journal of Pharmacology** 704(1-3), 33–40. Impact Factor (2017): 3.382.
54. Singh D, Mishra A, **Goel RK (2013)**. The effect of saponin fraction from *Ficus religiosa* on memory deficit, behavioral and biochemical impairments in pentylenetetrazol kindled mice. **Epilepsy and Behavior** 27 (1), 206–211. Impact Factor (2017): 3.382.
55. Bansal VK, **Goel RK (2012)** Gastroprotective effect of *Acacia nilotica* young seedless pod extract: Role of polyphenolic constituents. **Asian Pacific Journal of Tropical Medicine** 5 (7), 523-528. Impact Factor (2017): 3.382.
56. Chaudhary A, Das P, Mishra A, Kaur P, Singh B, **Goel RK (2012)** Naturally occurring himachalenes to benzocycloheptene amino vinyl bromide derivatives: as antidepressant molecules. **Molecular Diversity** 16, 357-66. Impact Factor (2017): 3.382.
57. Singh B, Singh D, **Goel RK (2012)** Dual protective effect of *Passiflora incarnata* in epilepsy and associated post-ictal depression. **Journal of Ethnopharmacology** 139, 273-279. Impact Factor (2017): 3.382.
58. Singh D, Singh B, **Goel RK (2012)** Role of saponins for the anticonvulsant effect of adventitious roots of *Ficus religiosa*. **Pharmaceutical Biology** 50, 816-822. Impact Factor (2017): 3.382.
59. Mishra A, **Goel RK (2012)** Age dependent learning and memory deficit in Pentylenetetrazol kindled mice. **European Journal of Pharmacology** 674, 315-320. Impact Factor (2017): 3.382.

60. Gupta S, Agrawal BK, Sehajpal PK, **Goel RK (2011)** Prevalence and predictors of essential hypertension in the rural population of Haryana, India: an hospital based study, **Journal of Rural and Tropical Public Health** 10, 29–34. Impact Factor (2017): 3.382.
61. Singh AP, **Goel RK**, Kaur T (2011) Mechanisms pertaining to arsenic toxicity **Toxicology International** 18, 87-93. Impact Factor (2017): 3.382.
62. Singh B, Mishra A, **Goel RK (2011)** Anticonvulsant activity of *Passiflora incarnata*: no role of chrysin **Journal of Pharmaceutical Negative Results** 2, 51-54. Impact Factor (2017): 3.382.
63. Khurana N, Ishar MPS, Gajbhiye A, **Goel RK (2011)** PASS assisted prediction and pharmacological evaluation of novel nicotinic analogs for nootropic activity in mice. **European Journal of Pharmacology** 662, 22-30. Impact Factor (2017): 3.382.
64. Singh D, Singh B, **Goel RK (2011)** Traditional uses, phytochemistry and pharmacology of *Ficus religiosa*: a review. **Journal of Ethnopharmacology** 134, 565-583. Impact Factor (2017): 3.382.
65. Singh D, Singh B, **Goel RK (2011)** Hydroethanolic leaf extract of *Ficus religiosa* lacks anticonvulsant activity in acute electro-and chemo-convulsion mice models. **Journal of Pharmaceutical Negative Results** 2, 58-61. Impact Factor (2017): 3.382.
66. **Goel RK**, Singh D, Lagunin A, Poroikov V (2011) PASS-assisted exploration of new therapeutic potential of natural products. **Medicinal Chemistry Research** 20, 1509-14. Impact Factor (2017): 3.382.
67. Kaur M and **Goel RK (2011)** Anti-convulsant activity of *Boerhaavia diffusa*: plausible role of calcium channel antagonism. **Evidence-based Complementary and Alternative Medicine** 1-7. Impact Factor (2017): 3.382.
68. **Goel RK**, Bagga P (2010) Cobalt chloride induced histotoxic cerebral hypoxia: A new experimental model to study neuroprotective effect. **Journal of Pharmaceutical Education and Research** 1, 88-95. Impact Factor (2017): 3.382.
69. Kaur H, Singh D, Singh B and **Goel RK (2010)** Anti-amnesic effect of *Ficus religiosa* in scopolamine-induced anterograde and retrograde amnesia. **Pharmaceutical Biology** 48, 234–240. Impact Factor (2017): 3.382.
70. Kaur T, **Goel RK**, Balakumar P (2010) Effect of rosiglitazone in sodium arsenite-induced experimental vascular endothelial dysfunction. **Archives of Pharmaceutical Research** 33, 611-618. Impact Factor (2017): 3.382.
71. Singh D and **Goel RK (2010)** Proconvulsant potential of cyproheptadine in experimental animal models. **Fundamental and Clinical Pharmacology** 24, 451-455. Impact Factor (2017): 3.382.
72. Niazi J, Singh P, Bansal Y and **Goel RK (2009)** Anti-inflammatory, analgesic and antipyretic activity of aqueous extract of fresh leaves of *Coccinia indica*. **Inflammopharmacology** 17, 239-244. Impact Factor (2017): 3.382.
73. Singh D and **Goel RK (2009)** Anticonvulsant effect of *Ficus religiosa*: role of serotonergic pathways. **Journal of Ethnopharmacology** 123, 330-334. Impact Factor (2017): 3.382.
74. Gupta S, Agrawal BK, **Goel RK**, Sehajpal PK (2009) Angiotensin-converting enzyme gene polymorphism in hypertensive rural population of Haryana, India. **Journal of Emergencies, Trauma, and Shock** 2, 150-154. Impact Factor (2017): 3.382.
75. Mittal M, **Goel RK**, Bhargava G and Mahajan MP (2008) PASS-assisted exploration of antidepressant activity of 1, 3, 4-trisubstituted- $\beta$ -lactam derivatives **Bioorganic and Medicinal Chemistry Letters** 18, 5347-5349. Impact Factor (2017): 3.382.

76. Marwaha A, **Goel RK** and Mahajan MP (2007) PASS-predicted design, synthesis and biological evaluation of cyclic nitrones as nootropics **Bioorganic and Medicinal Chemistry Letters** 17, 5251-5255. Impact Factor (2017): 3.382.
  77. **Goel RK**, Kumar V and Mahajan MP (2005) Quinazolines revisited: search novel anxiolytic and GABAergic agents. **Bioorganic and Medicinal Chemistry Letters** 15, 2145-2148. Impact Factor (2017): 3.382.
  78. **Goel RK**, Thind AS, Bal CS, Mahajan MP and Kulkarni SK (2005) Hypocholesterolemic activity of some novel azetidino-2-ones in diet and diabetes induced hypercholesterolemia in rats. **Die Pharmazie** 60, 369-374. Impact Factor (2017): 3.382.
  79. **Goel RK**, Singh A, Naidu PS, Mahajan MP and Kulkarni SK (2005) PASS-assisted search and evaluation of some as CNS active agents **Journal of Pharmacy and Pharmaceutical Sciences** 8, 182-189. Impact Factor (2017): 3.382.
  80. **Goel RK**, Mahajan MP and Kulkarni SK (2004) Evaluation of some novel 2-azetidino-2-ones as antihyperglycemic agents in alloxan induced diabetes in rats. **Journal of Pharmacy and Pharmaceutical Sciences** 7, 80-83. Impact Factor (2017): 3.382.
  81. **Goel RK**, Singh A, Mahajan MP and Kulkarni SK (2004) Evaluation of anti-inflammatory and anti-hyperalgesic activity of some novel monocyclic  $\beta$ - lactam compounds in rats. **Indian Journal of Pharmaceutical Sciences** 66, 87-91. Impact Factor (2017): 3.382.
  82. Kulkarni SK and **Goel RK** (1996) Gastric anti-ulcer activity of UL-409 in rats. **Indian Journal of Experimental Biology** 34, 683-688. Impact Factor (2017): 3.382.
24. List of National and International Conferences/Seminars attended and papers presented
1. 1995. Attended and presented research paper in **28th Congress of Indian Pharmacological Society** at Patiala.
  2. 1999. Attended and presented research paper in **International congress on Frontiers in Pharmacology and therapeutics in 21<sup>st</sup> century**, at New Delhi.
  3. 2000. Attended and presented research paper in **Regional Seminar on Pharmacy Profession in New Millennium**, at Shivalik College of Pharmacy at Nangal.
  4. 2000. Attended **52<sup>nd</sup> Indian Pharmaceutical Congress**, at Hyderabad.
  5. 2001. Attended and presented research paper in **53<sup>rd</sup> Indian Pharmaceutical Congress** at New Delhi.
  6. 2003. Attended **5th International symposium on Innovations in Pharmaceutical Sciences and Technology** at Mumbai.
  7. 2004. Attended the workshop on **Drug Discovery and Development in New Millennium** at NIPER, Mohali.
  8. 2005. Attended and presented research paper in **9<sup>th</sup> International Symposium and National Conference of Indian Society of Chemists and Biologists** at Rajkot, Gujarat India.
  9. 2006. Attended the Indo **Australian symposium on Pharmacogenomics** at Manipal.
  10. 2009. Attended the **National Work Shop on Quality Control of ASU Drugs with Pharma Industry as a Partner** at National Institute of Ayurvedic Pharmaceutical Research, Patiala.
  11. 2010. Attended and presented research paper in **4<sup>th</sup> International Symposium on "Current Trends in Drug Discovery Research"** at Central Drug Research Institute, Lucknow, Uttar

Pradesh.

12. **2010.** Participated in National Conference on Integrating Human Values in Technical Education organized by Punjab Technical University, Jalandhar in collaboration with IIT-Delhi, IIT-Kanpur, IIIT-Hyderabad and SSUN-Delhi.
13. **2011.** Presented paper “Exploring New Therapeutic Horizons of Indian Medicinal Plants: A Rational *In-Silico* & *in-vivo* Approach” at Second International Conference on Holistic Medicine (ICHM-2011), Kottayam, Kerala, India.
14. **2012** Attended and Evaluated poster and oral presentations of student in PTU sponsored National Conference on Drug Innovation: Emerging Trends and Challenges, held at Rayat and Bahra Institute of Pharmacy, Hoshiarpur, Punjab
15. Presented a Paper “Revealing plausible mechanism of action of Indian medicinal plants through an integrated In silico, in vitro and in vivo based approach” in International conference on Mechanism based natural product Development conference held at Vancouver, Canada **20-22 Sept 2012**
16. **2012.** Attended IPGA National Convention-2012 on “THE FUTURE OF PHARMACIST: A HEALTH CARE PROFESSIONAL” at Kurukshetra University, Kurukshetra, Haryana (17-18th November, 2012).
17. Presented a Paper “Psychoneurochemical investigations to reveal neurobiology of depression, learning and memory deficit in epilepsy. SFN San Diego **9-13 Nov, 2013.**
18. Presented a Paper “Revealing strategies to compact pharmacoresistance epilepsy by understanding neurochemistry for resistance to PTZ kindling: A complimentary study” in SFN Chicago **17-21 Oct, 2015.**

#### **Invited Talks ( More Than 60, To list a few)**

1. **2010.** Delivered two lectures (“Pharmacogenomics” and “Research”) at UGC sponsored 1<sup>st</sup> Refresher Course in Pharmacy organized by UGC-Academic Staff College and Institute of Pharmaceutical Sciences, Kurukshetra University, Kurukshetra.
2. **2011.** Attended and delivered lecture at National Level Seminar on **Current Scenario in Pharmaceutical Sciences** organized by Adesh Institute of Pharmacy and Biomedical Sciences, Bhatinda.
3. **2011.** Chaired a session “**HOMEOPATHY – I**” at **Second International Conference on Holistic Medicine (ICHM-2011)**, Kottayam, Kerala, India.
4. **2012.** Chaired a session Education Technology at **Methodology of Physiotherapy Education: Issues and Challenges** held at Department of Physiotherapy, Punjabi University, Patiala.
5. **2012.** Delivered a lecture (**Pharmacology Instruction for Physiotherapy Program**) at **Methodology of Physiotherapy Education: Issues and Challenges** held at Department of Physiotherapy, Punjabi University, Patiala.
6. **2012.** Delivered a lecture (**Relevance of Teaching of Pharmacy to Physiotherapy Students**) at **Methodology of Physiotherapy Education: Issues and Challenges** held at Department of Physiotherapy, Punjabi University, Patiala.
7. **2013.** Delivered a lecture on “**Finding Comprehensive target for epilepsy and its comorbidities**” at 45<sup>th</sup> National Conference of Indian pharmacological society and International Conference on Navigating Pharmacology towards Safe and Effective Therapy, at Nagpur **5-7 Jan 2013.**



8. 2013 Delivered Invited talk at Findlay University, USA.
9. 2014. Delivered a lecture on **“In silico drug discovery from medicinal plants beyond their traditional uses** at 45<sup>th</sup> Annual Conference of Indian pharmacological society, IPSCON, Guwahati 2014.
10. 2014. Delivered a lecture on **“microRNA: makers of health and disease”** at GNDU on 20.1.2014.
11. 2014. Delivered a lecture on **“Expanding Pharmacological spectrum of medicinal plants as a sustainable source of new medicines”** at PTU on 16.2.2014.
12. 2016. Delivered a lecture on **“Reverse Pharmacology”** at Kurukshetra University on 27.1.2016
13. 2016 Delivered a lecture on **“Pharmacogenomics based Therapeutic: a dream to be chased in India”** at Chitkara University, Rajpura on 13/4/2016.
14. 2016 Delivered a lecture on **“Biomarkers of epilepsy”** at Chitkara University, Rajpura on 16/9/2016.
15. Invited Speaker at Conference on Computational Methods in Toxicology and Pharmacology Integrating Internet Resources, Goa. 2017
16. Invited Speaker at Conference on Nano Based Therapy for Neurodegenerative Diseases at NIPER Raibareilly. 2018
17. Invited Speaker in conference on Big Data Applications in Drug Repurposing held at GITAM University Hyderabad. 2017
18. Invited Speaker at Continuing Education Programme, ASBAJSM, BELA 2018
19. Invited Speaker at Continuing Education Programme, Chitkara University, Rajpura. 2018
20. Invited Speaker and Guest of honour at International conference on Pharmacovigilance and clinical research at Rayat Bahra University. 2018.
21. Guest Speaker in Faculty Development Programme at KIET, GHAZIABAD 2018
22. Invited as Chairperson at PHYTOCON AT LPU Jalandhar, 2018
23. Invited Speaker at University institute of Pharmaceutical Sciences, BFUHS, Faridkot. 2018

**Date: 8th September, 2018**

**(Dr. R. K. Goel)**