

**Office Address:**

Laboratory of Molecular NeuroTherapeutics  
Department of Pharmacology and Toxicology/Regulatory Toxicology  
**National Institute of Pharmaceutical Education and Research, Raebareli**  
Bijnor-Sisendi Road, Near CRPF Base Camp, Sarojini Nagar, Lucknow, Uttar Pradesh-226301,  
INDIA  
**E-mail:** [ashok.datusalia@niperraebareli.edu.in](mailto:ashok.datusalia@niperraebareli.edu.in), [ashokdatusalia@gmail.com](mailto:ashokdatusalia@gmail.com)  
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**Research Description**

*Currently, my main interest lies in understanding the functional and molecular determinant for stress vulnerability and resilience behavior. Especially, my lab is investigating the key factors responsible for both functional synaptic changes and architectural changes induced by acute stress in mPFC-BLA-HPC pathways, to understand better the dynamics of the stress response and identify molecular changes that may trigger stress-related psychopathology. In this direction, our plan is to identify key factors responsible for acute footshock-stress induced differential changes in stress response circuit linked with vulnerable and resilient behavior. We will use qPCR assessment of miRNAs and expression of their target genes at short- and long-term after stress in stress response circuits. This will establish early understanding about individual differences in stress response as vulnerable and resilient individuals. The long-term goal revolves around the possibility of conversion from stress vulnerable to resilient.*

**Work Experience**

Assistant Professor (2020 to till date)	Department of Pharmacology and Toxicology/Regulatory Toxicology National Institute of Pharmaceutical Education and Research (NIPER) Raebareli
Postdoctoral Fellow (AHA Fellow) (2019-20)	Department of Neuroscience and Pharmacology, The Roy J. and Lucille A. Carver College of Medicine, University of Iowa, USA
Visiting Scientist, IBRO-ISN Fellow (2018-2019)	Department of Pharmacology and Biomolecular Sciences, University of Milan, ITALY
National Post Doctoral Fellow (2017-2018)	Division of System Neuroscience, National Brain Research Centre, Manesar Gurgaon INDIA
Research Associate I/II (2015 –2017)	
Research Associate (CSIR) (2014 –2015)	Department of Pharmacology and Toxicology National Institute of Pharmaceutical Education and Research (NIPER) S.A.S. Nagar
Jr/Senior Research Fellow (UGC) (2019- 2014)	Sri Balaji College of Pharmacy, Jaipur, Rajasthan
Lecturer (Pharmacology) (2005-2006, 2009)	
Lecturer (Pharmacology)	Jaipur College of Pharmacy, Jaipur

**Education**

Ph.D (2015) (Pharmacology & Toxicology)	Department of Pharmacology and Toxicology, National Institute of Pharmaceutical Education and Research (NIPER), SAS Nagar (Mohali), Punjab, India
M. Pharm. (2006-2008) (Pharmacology)	Department of Pharmaceutical Sciences, Guru Jambheshwar University of Science and Technology, Hisar, Haryana, INDIA
B. Pharm (2001-2005)	Department of Pharmaceutical Sciences, Mohan Lal Sukhadia University Udaipur, Rajasthan, INDIA

**Awards and Achievements**

Year	Award	University/Research Organization /Funding Sponsor
2021	ISN CAEN Grant	International Society for Neurochemistry, Geneva, Switzerland
2019	AHA Fellowship	American Heart Association, USA (Host Institute: Prof. Kamal Rahmouni, Department of Neuroscience and Pharmacology, The Roy J. and Lucille A. Carver College of Medicine, University of Iowa, USA)
2019	ISN Travel Award	International Society for Neurochemistry, Geneva, Switzerland (Event: Advance School in Neurochemistry and ISN Biennial Meetings - International Society for Neurochemistry at Montreal CANADA)

2018	Boot camp	BioMed X Institute, Heidelberg Germany
2018	IBRO-ISN Research Fellowship	International Brain Research Organization (IBRO) (Host: Prof Maurizio Popoli, Laboratory of Neuropsychopharmacology and Functional Genomics, Department of Pharmacological and Biomolecular Sciences, University of Milan, Italy)
2017	National Post Doctoral Fellowship	SERB-Department of Science and Technology, Govt of India (Host: Prof Neeraj Jain, Division of System Neuroscience, National Brain Research Centre, Gurugram, INDIA)
2016	CDE Award-2016	European College of Neuropsychopharmacology (Event: ECNP-2016 at Vienna, Austria)
2016	IBRO Travel Award	International Brain Research Organization (IBRO), France
2016	ISN-Flagship School Award	International Society for Neurochemistry (Event: 1 <sup>st</sup> ISN-JNC flagship school on "The malleable brain: plasticity of neural circuits and behaviour" at Alpbach, Austria September 12-17th 2016)
2016	CSIR-UGC-NET-JRF (June 2016) with AIR 60	Council of Scientific and Industrial Research (CSIR), New Delhi
2015	PP Suryakumari Award	Indian Pharmacological Society (Publishing paper in the field of metabolic disorder at Rajkot Gujrat)
2015	International Travel Award	Department of Biotechnology Govt of India (Event: Annual Meeting of Japan Neuroscience Society "Neuroscience-2015" at Kobe, Japan)
2014	Research Associate Fellowship	Council of Scientific and Industrial Research (CSIR), Govt. of India.
2013	International Travel Award	Department of Science and Technology, Govt of India (Event: Annual Meeting of ASPET and Experimental Biology-2013, Boston, MA, USA)
2009-14	Junior and Senior Research Fellowship	University Grant Commission (UGC, New Delhi), Ministry of HRD, Govt. of India
2006-08	Post Graduate Fellowship	All India Council for Technical Education, Govt. Of India
2007	GATE-2007	IIT Kanpur
2006	GATE 2006 with 98.60 percentile	IIT Kharagpur
2005	GATE 2005 with 94.33 percentile	IIT Bomabey

### Current National /International Collaborations

1. Prof Som Niyogi, Professor  
Department of Biology and Toxicology Programme,  
University of Saskatchewan  
Saskatoon, SK S7N 5A5 CANADA
2. Prof Shyam S. Sharma  
Department of Pharmacology and Toxicology  
NIPER SAS Nagar
3. Dr Ashutosh Kumar  
Department of Anatomy  
All India Institute of Medical Science (AIIMS) Patna, INDIA

### Extramural/Sponsored Research/Fellowship Projects

1. Extramural Grant in collaboration with AIIMS Patana (As Co-Investigator): 50 Lakhs  
Funding agency: ICMR- New Delhi (2022-25)  
Project Title : *Unraveling human adult hippocampal neurogenesis using immunohistochemical and transcriptomic methods: An observational study.*
2. ISN-CAEN Research Grant (Principal Investigator) \$4,700  
Funding agency: International Society of Neurochemistry (2021-22)  
Title: *Regulation of stress response and neuroinflammatory markers by diet-induced obesity and aging.*
3. American Heart Association Grant (Principal Investigator) \$139,336.00  
Title: Neurogenic Mechanism of Obesity-induced Hypertension at University of Iowa, USA
4. Research Fellowship Project (Principal Investigator): Euro 35,000.00  
Funding agency: *International Brain Research Organization (2018-2019)*  
Title: *miRNA regulation of functional neuroplasticity in stress response circuitry.*

5. National Post Doctoral Project (Principal Investigator): Rs1,960,000.00  
Funding agency: SERB-DST New Delhi (2016-18)  
Title: Nature of Neuronal Response after spinal cord Injury at NBRC, Manesar Gurugram INDIA

#### List of Publications in Peer-reviewed Journals

1. Ali SA, Sumadhura B, Patwa JK, Khare P, Rachamalla M, Niyogi S, **Datusalia AK**. Melatonin attenuates extracellular matrix accumulation and cardiac injury manifested by copper. *Biochemical Pharmacology (Under Review)*
2. Singh P, Kanhed A, Khatik GL, **Datusalia AK**. Virtual screening of polyphenolic compounds as potential neuroprotective agents targeting endoplasmic reticulum stress. *Journal of Computer-Aided Molecular Design (Under Review)*
3. Thakur M, Vasudeva N Sunil Sharma S, **Datusalia AK**. Plants and their bioactive compounds as a possible treatment for traumatic brain injury-induced multi-organ dysfunction syndrome. *CNS and Neurological Disorder (Accepted in-Press)*
4. Singh P, Ponnada RK, Ruchika Sharma R, Sumadhura B, Kumar A, **Datusalia AK**. Safety and efficacy of recently FDA approved anti-migraine drugs: A systematic review and meta-analysis of randomized controlled trials. *European Journal of Neurology (Under Review)*
5. Thakur M, Babu A, Kumar N; Khatik GL, **Datusalia AK**, Kumar A. Use of baricitinib in COVID-19 hospitalized patients: A meta-analysis. *Infection (Under Review)*
6. Vasundhara B, Kumar A, **Datusalia AK**. Metabolomics of depression: What we learn from preclinical and clinical studies. *Journal of neuroscience Research (Under Review)*
7. Samim KS, Khatik GL, **Datusalia AK**. Advances in neurobiology and targeted therapies for disease-associated cognitive disorders and dementia. *Current Neuropharmacology* 2022. *Accepted In-press (Impact Factor 7.708)*
8. Gaun S, Ali SA, Singh P, Patwa JK, Flora SJS, **Datusalia AK**. Melatonin ameliorates chronic copper-induced lung injury. *Environmental Pollution and Science Research* 2022 *Accepted In-press (Impact Factor 5.03)*
9. Sala N, Paoli C, Bonifacino T, Mingardi J, Schiavon E, La Via L, Milanese M, Tornese P, **Datusalia AK**, Rosa J, Facchinetti R, Frumento G, Carini G, Salerno Scarzella F, Forti L, Barbon A, Bonanno A, Popoli M, Musazzi L. (2022) Acute ketamine facilitates fear memory extinction in a rat model of PTSD along with restoring glutamatergic alterations and dendritic atrophy in the prefrontal cortex. *Frontiers in Pharmacology* . 13:759626 (**Impact Factor 5.988**)
10. **Datusalia AK**, Singh G, Yadav N, Gaun G, Manik M, Singh RK. Targeted delivery of montelukast for treatment of Alzheimer's disease. *CNS and Neurological Disorders-Drug Target* 2022 (*Accepted in-press*) (**Impact Factor 4.4**)
11. Thakur M, **Datusalia, AK**, & Kumar A. (2022). Use of steroids in COVID-19 patients: A meta-analysis. *European Journal of Pharmacology*. 914, 174579. (**Impact Factor 5.195**)
12. Kaundal RK, **Datusalia AK**, Sharma SS. (2022) Posttranscriptional regulation of Nrf2 through miRNAs and their role in Alzheimer's disease. *Pharmacological Research* 175, 106018. (**Impact Factor 10.334**)
13. Thakur M, Rachamalla M, Niyogi S, **Datusalia AK**, Flora SJS. Molecular mechanism of arsenic induced neurotoxicity including neuronal dysfunctions. *International Journal of Molecular Sciences* 2021, 22(18), 10077. (**Impact Factor 6.208**)
14. Ali, S. A., Singh, G., & **Datusalia, A. K.** (2021) Potential Therapeutic Applications of Phytoconstituents as Immunomodulators: Pre-clinical and Clinical Evidences. *Phytotherapy Research*. 35(7):3702-3731. (**Impact factor 6.388**)
15. Khatri N, Sumadhura B, Kumar S, Kaundal RK, Sharma S, **Datusalia AK**. (2021) The Complexity of Secondary Cascade Consequent to Traumatic Brain Injury: Pathobiology and Potential Treatments. *Current neuropharmacology*. 2021;19(11):1984-2011. (**Impact Factor 7.708**)
16. Tornese P, Sala N, Paoli C, Rosa J, **Datusalia AK**, Popoli M, Musazzi L. Ketamine Promotes Fear Extinction and Rescues Dysfunction of Glutamate Release in a Rat Model of PTSD. *Biological Psychiatry*, 2019; 85: 125-126. (Impact factor 13.3)
17. Khatri N, Kumar S, **Datusalia A**, Sharma S. (2019) Neuroprotective effects of kynurenic acid analogue against secondary cascades of traumatic brain injury in mice. *Journal of Neurochemistry*, 130. (**Impact factor 5.3**)
18. Khatik GL, **Datusalia AK**, Vyas M. Current Pharmaceutical Interventions and Drug Design in the Management of Diabetes and Diabetic Complications. *Current Pharmaceutical Design*, 2019; 25: 2509. (**Impact factor 3.1**)
19. **Datusalia A**, Sala N, Musazzi L, Maurizio P. (2019) Functional and molecular markers of vulnerability towards stress in a rat model of PTSD. *Journal of Neurochemistry*, 115-115. (**Impact factor 5.3**)
20. Sharma AK, Kumar A, Taneja G, Nagaich U, Deep A, **Datusalia AK**, Rajput SK. Combined and individual strategy of exercise generated preconditioning and low dose copper nanoparticles serve as superlative approach to ameliorate ISO-induced myocardial infarction in rats. *Pharmacological Report*, 2018; 70: 789-795. (**Impact factor 3.788**)
21. Sharma AK, Kumar A, Sahu M, Sharma G, **Datusalia AK**, Rajput SK. (2018) Exercise preconditioning and low dose copper nanoparticles exhibits cardioprotection through targeting GSK-3 $\beta$  phosphorylation in ischemia/reperfusion induced myocardial infarction. *Microvascular Research*, 2018; 120: 59-66. (**Impact Factor 3.75**)
22. Kumar A, **Datusalia AK**. (2018) Metabolic Stress and Inflammation: Implication in Treatment for Neurological Disorders. *CNS Neurol Disord Drug Targets*, 17: 642-643. (**Impact Factor 4.4**)
23. Khatri N, Thakur M, Pareek V, Kumar S, Sharma S, **Datusalia AK**. (2018) Oxidative Stress: Major Threat in Traumatic Brain Injury. *CNS Neurol Disord Drug Targets*, 17: 689-695. (**Impact Factor 4.4**)
24. Khatik GL, **Datusalia AK**, Ahsan W, Kaur P, Vyas M, Mittal A, Nayak SK. A Retrospect Study on Thiazole Derivatives as the Potential Antidiabetic Agents in Drug Discovery and Developments. *Curr Drug Discov Technol*, 2018; 15: 163-177.
25. **Datusalia AK**, Khatik GL. Editorial: Thiazole Heterocycle: A Privileged Scaffold for Drug Design and Discovery. *Curr Drug Discov Technol*, 2018; 15: 162.
26. **Datusalia AK**, Agarwal P, Singh JN, Sharma SS. Hyper-insulinemia increases the glutamate-excitotoxicity in cortical neurons: A mechanistic study. *Eur J Pharmacol*, 2018; 833: 524-530. (**Impact Factor 5.195**)

27. Schaefer N, Rotermund C, Blumrich EM, Lourenco MV, Joshi P, Hegemann RU, Jamwal S, Ali N, Garcia Romero EM, Sharma S, Ghosh S, Sinha JK, Loke H, Jain V, Lepeta K, Salamian A, Sharma M, Golpich M, Nawrotek K, Paidi RK, Shahidzadeh SM, Piermartiri T, Amini E, Pastor V, Wilson Y, Adeniyi PA, **Datusalia AK**, Vafadari B, Saini V, Suarez-Pozos E, Kushwah N, Fontanet P, Turner AJ. The malleable brain: plasticity of neural circuits and behavior - a review from students to students. *J Neurochem*, **2017**; 142(6):790-811. (**Impact factor 5.3**)
28. Khare P, **Datusalia AK**, Sharma SS. Parthenolide, an NF-kappaB Inhibitor Ameliorates Diabetes-Induced Behavioural Deficit, Neurotransmitter Imbalance and Neuroinflammation in Type 2 Diabetes Rat Model. *Neuromolecular Med*, **2017**; 19: 101-112. (**Impact factor 3.8**)
29. Jawale A, **Datusalia AK**, Bishnoi M, Sharma SS. Reversal of diabetes-induced behavioral and neurochemical deficits by cinnamaldehyde. *Phytomedicine*, **2016**; 23: 923-30. (**Impact factor 5.3**)
30. Jangra A, Kwatra M, Singh T, Pant R, Kushwah P, Sharma Y, Saroha B, **Datusalia AK**, Bezbaruah BK. Piperine Augments the Protective Effect of Curcumin Against Lipopolysaccharide-Induced Neurobehavioral and Neurochemical Deficits in Mice. *Inflammation*, **2016**; 39: 1025-38. (**Impact factor 4.092**)
31. **Datusalia AK**, Sharma SS. NF-kappaB Inhibition Resolves Cognitive Deficits in Experimental Type 2 Diabetes Mellitus through CREB and Glutamate/GABA Neurotransmitters Pathway. *Curr Neurovasc Res*, **2016**; 13: 22-32. (**Impact factor 1.99**)
32. Bajaj P, Tripathy RK, Aggarwal G, **Datusalia AK**, Sharma SS, Pande AH. Refolded Recombinant Human Paraoxonase 1 Variant Exhibits Prophylactic Activity Against Organophosphate Poisoning. *Appl Biochem Biotechnol*, **2016**; 180: 165-76. (**Impact factor 2.92**)
33. Jangra A, **Datusalia AK**, Sharma SS. Reversal of neurobehavioral and neurochemical alterations in STZ-induced diabetic rats by FeTMPyP, a peroxynitrite decomposition catalyst and 1,5-Isoquinolinediol a poly(ADP-ribose) polymerase inhibitor. *Neurol Res*, **2014**; 36: 619-26. (**Impact factor 2.4**)
34. **Datusalia AK**, Sharma SS. Amelioration of diabetes-induced cognitive deficits by GSK-3beta inhibition is attributed to modulation of neurotransmitters and neuroinflammation. *Mol Neurobiol*, **2014**; 50: 390-405. (**Impact factor 5.59**)
35. Jangra A, **Datusalia AK**, Khandwe S, Sharma SS (2013) Amelioration of diabetes-induced neurobehavioral and neurochemical changes by melatonin and nicotinamide: Implication of oxidative stress-PARP pathway. **Pharmacology Biochemistry Behavior** 114 43-51 (**Impact Factor: 2.7**) (Cited by 26)
36. **Datusalia AK**, Dora CP, Sharma S (2012) Acute and Chronic Hypoglycemic Activity of *Sida tiagii* Fruits on n5-Streptozotocin Diabetic Rats. **Acta Pol Pharm-Drug Research** 69 699-706 (**Impact Factor 0.8**) (Cited by 9)
37. Dora CP, Singh SK, Kumar S, **Datusalia AK**, Deep A (2011) Development and characterization of nanoparticles of glibenclamide by solvent displacement method. **Acta Pol Pharm-Drug Research** 67 283-290 (**Impact Factor 0.8**) (Cited by 47)
38. **Datusalia AK**, Sharma S, Kalra P, Samal MK (2009) Antidepressant-like Potential of *Sida tiagii* Bhandari Fruits in Mice. **Journal of Health Science** 55 641-648 (**Impact Factor: 1.0**) (Cited by 5)
39. **Datusalia AK**, Kalra P, Narasimhan B, Sharma S, Goyal RK (2008) Anxiolytic and Antiseizure Effects of *Sida tiagii* Bhandari **Journal of Health Science** 54 544 (**Impact Factor: 1.0**) (Cited by 15)
40. Kalra P, **Datusalia AK**, Sharma S (2011) Antiulcer potential of *Rubia cordifolia* Linn. in experimental animals **Int J Green Pharmacy** 5 149-154. (Cited by 3)

#### International/ National Conferences/ Symposium with proceedings (Abstract published)

41. **Datusalia AK**, Sharma SS (2016) Inhibition of GSK-3beta signalling improves cognitive deficits and glutamate-excitotoxicity in diabetes through transcription regulation of CREB. *European Neuropsychopharmacology* 26, S237.
42. **Datusalia AK**, Singh JN, Sharma SS (2015) Role of GSK-3 $\beta$ /NF- $\kappa$ B in Regulation of CREB and PICK1 in Primary Cortical Neurons Under Hyperglycemic/Insulin Resistant Conditions. *Indian Journal of Pharmacology* 47 (Suppl S1), 8-10
43. **Datusalia AK**, Khare P, Sharma SS (2014) Pharmacological Inhibition of NF-kappaB Ameliorated Learning and Memory Deficits in Type-2 Diabetic Rats. *Indian J Pharmacol* 46 S31-S31
44. **Datusalia AK**, Sharma SS. (2013) Glycogen Synthase Kinase 3 $\beta$ ; Inhibitor Improves Diabetes-induced Cognitive Deficits in Type-2 Diabetic Rats *FASEB Journal* 27 (1\_MeetingAbstracts), 661.5

#### Book Chapter/Books

1. **Ashok Kumar Datusalia\***, Nidhi, Sunil Sharma. Anxiety disorder: General anxiety panic and social anxiety disorder **In** "Animal Screening: Basics of Drug Discovery" edited by Rajput SK and Sharma A. SPER Publications INDIA

#### Invited Talks/ Plenary lecture/ Chaired Session/Oral Presentation

1. Invited Lecture on "Molecular Techniques in Pharmacology" at Summer Lecture Series Organized by Delhi Pharmaceutical Science Research University, New Delhi India. (7<sup>th</sup> June, 2022)
2. Invited Lecture on "Brain Plasticity in Health and diseases" at E-Symposium on Aging and Age-Associated CNS Complications Organized by NIPER Hajipur (26<sup>th</sup> March 2022)
3. Chaired session in Three-Days International Conference on Emerging Role of Pharmacist in Innovation, Discovery and Development of Biological Products & Biopharmaceuticals" organized by Department of Pharmaceutical Sciences, Gurukul Kangri (Deemed to University), Haridwar, INDIA (25<sup>th</sup>-27<sup>th</sup> September 2021)

4. Invited Talk on “Preclinical & Clinical aspects in Molecular Neuroscience” at AICTE Sponsored Short Term Training Programme Organized by Seven College of Pharmacy, Tirupati INDIA (28<sup>th</sup> June -3<sup>rd</sup> July 2021)
5. Invited talk on “Fostering Translational CNS and Neurodegenerative Drug Discovery: Challenges and Current Solutions” at *IBRO Associate School of Neuroscience* organized at AMITY Institute of Neuropsychology and Neuroscience, AMITY University, Noida INDIA
6. Invited lecture on “Adult Brain Plasticity in Health and Diseases” at Amity Institute of Pharmacy and AMITY Centre for Yoga Education, Therapy and Research, AMITY University, Noida INDIA ( June 17-21, 2019)
7. Invited presentation/lecture on “Impact of diabetes on brain: behavioural alterations and linking mechanisms” at Department of Pharmacological and Biomolecular Sciences, University of Milano, Italy, September 09, 2016.
8. Oral Presentation on “Role of GSK-3 $\beta$ /NF- $\kappa$ B in regulation of CREB and PICK1 in primary cortical neurons under hyperglycemic/insulin resistant conditions” at 58<sup>th</sup> annual meeting of Indian Pharmacological Society Conference (IPSCON-2015) at Saurashtra University Rajkot, Gujrat December 18-20, 2015.
9. Oral presentation on “Improvement of cognitive deficits by BAY 11-7082, a NF- $\kappa$ B inhibitor is mediated through modulation of CREB/PICK1 and neurotransmitter homeostasis in diabetes” at annual Meeting of Indian Academy of Neuroscience at Panjab University Chandigarh October 31-November 2, 2015.
10. Oral Presentation on “Effect of GSK-3 $\beta$  inhibition on PDZ protein PICK1 function on in primary cortical neurons under *in-vitro* condition of diabetes” at Neuroscience-2015, Kobe Japan July 28-31, 2015.
11. Oral presentation on “Pharmacological inhibition of NF- $\kappa$ B ameliorated learning and memory deficits in type-2 diabetic rats” at 57<sup>th</sup> annual Indian Pharmacological Society Conference (IPSCON-2014), NIPER Guwahati, Assam, India December 28-30, 2014.

## Posters

12. **Datusalia AK**, Sharma SS. Inhibition of GSK-3 $\beta$  signalling improves cognitive deficits and glutamate-excitotoxicity in diabetes through transcription regulation of CREB. 29<sup>th</sup> Annual conference of European College of Neuropsychology (29<sup>th</sup> ECNP) at **Vienna, Austria**, September 17-20, 2016.
13. **Datusalia AK**, Sharma SS. Reversal of Insulin resistance-induced cognitive deficits and glutamate-excitotoxicity via inhibition of GSK-3 $\beta$ . In 1<sup>st</sup> ISN-JNC flagship school on “The malleable brain: plasticity of neural circuits and behaviour” at **Alpbach, Austria** September 12-17<sup>th</sup> 2016.
14. **Datusalia AK**, Sharma SS. Elucidation of involvement of NF- $\kappa$ B in type 2 diabetes-induced behavioral deficits using pharmacological approach. 1<sup>st</sup> IBRO/APRC Chandigarh Associate Neuroscience School, Panjab University Chandigarh, November 02-08, 2014.
15. **Datusalia AK**, Sharma SS. Glycogen synthase kinase-3 $\beta$  inhibition improves diabetes induced cognitive deficits in type 2 diabetic rats. Experimental Biology-2013 and Annual meeting of American Society for Pharmacology and Experimental Therapeutics at **Boston, MA, USA**. April 21-24, 2013.
16. **Datusalia AK**, Sharma S, Kalra P. Antihyperglycemic effect of *Myristica fragrans* fruits in experimental type 2 diabetes. National conference on “Innovations in Drug Discovery and Research” at Punjabi University Patiala, March 3-5, 2009
17. **Datusalia AK**, Samal MK, Sharma S. Antidepressant like activity of *Sida tiagii* in mouse models of Immobility tests. 60<sup>th</sup> Indian Pharmaceutical Congress, 2008 New Delhi, December 12-14, 2008
18. **Datusalia AK**, Kumar V, Dhingra D. Antidepressant like potential of *Asparagus racemosus* in mice. 40<sup>th</sup> Annual conference of Indian Pharmacological Society at NIPER, Mohali, November 1-3, 2007.
19. **Datusalia AK**, Sharma S. Involvement of gene in pathogenesis of diabetes mellitus (type 2). IPGA National Seminar on “Recent Trends in Pharmaceutical Education and Research” at Sirsa, September 29-30, 2007.
20. **Datusalia AK**, Kumar V, Tomar M, Dhingra D. Parkinson’s disease: now understanding through genetics. AICTE National Seminar on “Recent Trends In Pharmaceutical Education And Research” at Sirsa, April 28, 2007.

## Presentations by Students

1. Ponnada RK, Thakur M, **Datusalia AK**. “QSTR modelling for predicting reproductive and hepatotoxicity” in 4<sup>th</sup> Annual Conference of Society for Alternative to Animal Experiments -India (SAAE-1) at Delhi Pharmaceutical Science and Research University, New Delhi India (12<sup>th</sup> December 2021) ; **Awarded Gold Medal**
2. Singh G, Ali SA, **Datusalia AK**. “Receptor -ligand based molecular interaction of phytochemicals exploring potential immunoadjuvant activity” in Young Pharmacologist Symposium organised at NIPER Raebareli
- 3.

4. Singh P, **Datusalia AK**. “In-slico Screening of Bioactive Polyphenole as PERK Modulator” in Young Pharmacologist Symposium organised at NIPER Raebareli

### Thesis supervised

PhD in Pharmacology Toxicology

1. Syed Afroz Ali (2019-Ongoing)
2. B. Sumadhura (2019 – Ongoing)
3. Pooja Singh (2021-ongoing)

MS (Pharm) Pharmacology and Toxicology

- |                                 |                                       |
|---------------------------------|---------------------------------------|
| 1. Boosani Vasundhara (2019-21) | 8. Krushna Chandra Maharana (2020-22) |
| 2. Sachin Gaun (2019-21)        | 9. Mousumi Paul (2020-22)             |
| 3. Khan Sabiya Samim (2019-21)  | 10. Arun E V (Ongoing)                |
| 4. Gurpreet Singh (2019-21)     | 11. Bhupendra Puri (Ongoing)          |
| 5. Pooja Singh (2019-21)        | 12. Pallavi Upadhayay (Ongoing)       |
| 6. Priyanka Tiwari (2020-22)    | 13. Samata Pradhan (Ongoing)          |
| 7. Hemraj Singh (2020-22)       |                                       |

MS (Pharm) Regulatory Toxicology

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|-------------------------------------|--|
| 1. Bollepally Mounica (2019-21)     | 5. Ponnada Rakesh Kumar (2020-22)                |
| 2. Manisha Thakur (2019-21)         | 6. Harsimar Singh Bajaj (Cosupervisor) (2020-22) |
| 3. Yadav Nikita Ramashare (2019-21) | 7. Arjun Ramesh Raut (Ongoing)                   |
| 4. Mansi Verma (2020-22)            | 8. Kale Vithal Govind (Ongoing)                  |

### Conferences/ Workshops/ Symposia /Short Term Training/Course Programme Invited lectures Organized

Year	Event	Role
2021	One week certificate course on “Imrpoving the Quality and Outcome of Experimental Research”	Course Cordinator
2021	Young Pharmacologist Symposium in Colleboration with Indian Pharmacological Society	Organizing Secretary

### Membership of Professional Scientific Societies / National and International Advisory Board

International / National Assignments

- Member of ISN School Initiative Committee International Society for Neurochemistry, Geneva, Switzerland (2021-till date)
- Technical Evaluation Committee, Delhi Pharmaceutical Science Research University, New Delhi
- Project Evaluation for SERB-DST New Delhi

Editorial Board Member

- *Associate Editorial Board Member* Current Molecular Pharmaology (2020-till date)
- *Associate Editorial Board Member* CNS and Neurological Disorder Drug Target (2020- till date)
- *Guest Editor* for CNS and Neurological Disorder Drug Target (2018)
- *Guest Editor* for Current Drug Discovery Technology (2016)

Memberships

- Life member of Association of Pharmaceutical Teachers of India
- Regular Member of **Society for Neuroecience** USA (Membership no 210330928)
- Life member of **Indian Pharmacological Society, India** (Membership ID LA-273)
- Full member of **International Society of Neurochemistry** (Membership ID : 21769)
- Life member of **Indian Academy of Neuroscience** (Membership ID: LD-63)
- Registered Pharmacist at **Rajasthan State Pharmacy Council**, Jaipur Rajasthan INDIA since 2005 (Registration no 21261)

### Reviewing Assignments

Reviewer/Academic Editor/Review Editor *Frontier in Pharmacology, Frontier in Neuroscience, Pharmacological Research, ACS Chemical Neuroscience, Neurosciecn; IBRO Report, Journal of Nutritional Biochemistry; Pharmacological Reports; Oxidative Medicine and Cellular Longevity; Cellular and Molecular Neurobiology; Behavioral Neurology; Pharmaceutical Biology; Psychopharmacology; Neural Regeneration Research, Journal of Medicinal Food*

**Ashok Kumar Datusalia**