

CURRICULUM VITAE

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Education (post-graduation onwards & Professional Career)

S No.	Institution	Degree	Year	Field of Study
1.	BHU, Varanasi	M. Sc	1986	Biochemistry
2.	Institute of Medical Sciences, BHU, Varanasi.	Ph.D.	1994	Biochemistry
3.	AIIMS, Biochemistry, New Delhi	Research Officer	March 1994-Jan.1995 August1996-June2000	Cancer Biology Neuroscience
4.	National Institute of Neuroscience, Tokyo, Japan	Visiting fellow Scientist	Feb1995-July1996	Neuroscience
5.	University of Illinois at Chicago, USA.	Post-Doctoral fellow	June 2000-July 2006	Endocrinology and Neuroscience
6.	Johns Hopkins Medical Institute, Baltimore, MD	Post-Doctoral fellow	August2006-May 2008	Neuroendocrinology

Position and Employment (India)

S. No.	Institution	Position	From (Date)	To (date)
1.	Department of Biochemistry, BHU	Associate Professor	26 th May 2008	25 th May 2014
2.	Department of Biochemistry, Institute of Science, BHU	Professor	26 th May 2014	Till date
3.	Department of Biochemistry, Institute of Science, BHU	Head / Chairman	01 th Feb 2019	31 st Jan. 2022
4.	Banaras Hindu University, Biochemistry	Senior Professor most	From Jan. 2001	Till date

Honors/Awards

- Organizing secretary of IBRO APRC School at Department of Biochemistry on the topic “o "Neuroprotective Potential of Medicinal Plants and Phytochemicals in Neurodegenerative Disorders" organized by Department of Biochemistry, Banaras Hindu University, Varanasi from 12-18 September, 2022.
- Invited talk in the virtual conference by “IBRO-APRC Georgian Associate School of Neuroscience, 2021”.
- Organizing secretary of IBRO APRC School at Interdisciplinary School of life science, on the topic “Molecular basis of Neuroinflammation mediated Neurodegeneration organized by Interdisciplinary School of life science, Banaras Hindu University, Varanasi from 1-14 September, 2019.
- Chairman/Convener of International conference on theme of “Role of Basic Science in Translational Research in Ayurvedic Medicine (ICRBSTRAM)” at Mahamana Hall (seminal complex), Institute of Science, BHU, Varanasi-05 [28-29 oct, 2017].
- 2016: “Aryabhata” award by the Associations of Ayurvedic Professionals of North America (AAPNA), Lucknow, 4-6, November 2016.
- 2014: Travel award from DST, India for poster presentation at Annual meeting of Society of Endocrinology at Chicago, USA, 21-24 June 2014.
- 2011: Travel award from DST, India for poster presentation at Annual meeting of Society of Endocrinology at Boston, USA 4-7 June 2011.

- 2008: Travel award from Endocrine Society for Oral presentation at the 90th Annual meeting of Society at San Francisco, USA 15-18 June 2008.
- 2007: Travel award from Endocrine Society for Oral presentation at the 89th Annual meeting of Society at Toronto, Canada 1-4 June 2007.
- 1995-1996: Science and Technology Agency (STA) post-doctoral fellowship, Govt. of Japan.
- 1986-1992: Junior & Senior Research fellowship from University Grant's Commission (after qualifying National Education test).

Reviewer of Journals

Neurochemical Research, Oxidative Medicine and Cellular Longevity, PLOS One, ACS Chemical Neuroscience etc.

Membership of the Scientific societies

- The Endocrine Society (US).
- Society for Reproductive Biology and Comparative Endocrinology, SRBCE (Life member).
- International Society of Neurochemistry (ISN).
- Indian Academy of Neuroscience, IAN (Life member). **Fellow of IAN** since 2021
- Association of Clinical Biochemists of India, ACBI (Life member).

Ph.Ds. Awarded

1. Dr. Satyendra Kumar Yadav
2. Dr. Jay Prakash Yadav
3. Dr. Shikha Chouhan
4. Dr. Parul Gupta
5. Dr. Ashok Kumar Chauhan
6. Dr. Chetan Keshwani
7. Dr. Gidda Mallikarjun Rao (Co-Guide)
8. Dr. SachchidaNand Rai
9. Dr. Neeraj Tiwari (Co-Guide)
10. Dr. Richa Tripathi (Co-Guide)
11. Dr. Manisha Singh (Co-Guide)
12. Dr. Saumitra Sen Singh
13. Dr. Hareram Birla
14. Dr. Walia Zahra

15. Dr. Hagera Dilnashin
16. Dr. Aaina Singh Rathore
17. Dr. Richa Singh
18. Dr. Smriti Singh
19. Dr. Poonam Rawat
20. Dr. Priyanka K Keshri

Books Published

- **Elementary Biochemistry** (2014) Yadav SK, Keshwani C, Prakash J, Kumar M and Singh SP (Eds.). Urvashyam, ISBN-978-93-82265-06-1
- **Intellectual Property Issues in Microbiology** (2019) Singh HB, Keswani C, Singh SP (Eds.). Springer-Nature, Singapore. 425 pages, ISBN- 978-981-13-7465-4.
- **Traditional medicine for Neural Health** (2021) Singh SP, Birla H and Keswani C. (Eds.). Bentham Science, Singapore. ISBN 978-981-5040-19-7, 2023 ISBN 978-981-5040-20-3
- **Indopathy for Neuroprotection: Recent Advances** (2022) Singh SP, Birla H, Dilnashin H. and Keswani C. (Eds.). Bentham Science, Singapore. ISBN: 978-981-5050-87-5 (Print) ISBN: 978-981-5050-86-8 (Online)
- **Phototherapeutic Approaches to Neurodegeneration, Current Trends and Prospects (2026)** Hagera Dilnashin and Surya Pratap Singh (Eds.). Springer-Nature ISBN 978-981-95-4750-0 (Print) ISBN 978-981-95-4751-7 (Online)

Patents filed:

1. "On-site and robust quantification method with visual color strip for detection of Bisphenol-A in milk" (*Indian Patent*) #E-12/3419/2021/DEL dated 17/12/2021 (Filed)
2. "A semi-invasive method to prognose, diagnose and monitor treatment efficacy for Parkinson's disease employing surface enhanced Raman spectroscopy (SERS) from serum specimens" (filed in Oct.2025)

Publications List

1. Poonam Rawat, Lise Beucher, Camille Cruchaudet, Shekhar Singh, Priyanka Kumari Keshri, Surya Pratap Singh, Sharad Srivastava, Jeanne Mialet-Perez "Hypericum perforatum L. and Glycyrrhiza glabra L. preserve cardiac mitochondrial redox homeostasis in E2 deficiency via ER β -MAO-A modulation" Fitoterapia, Volume 192, 2026, 107314, ISSN 0367-326X

2. Singh Ankit Satyaprakash, Nitesh Kumar Gupta, Shekhar Singh, Rajaneesh Kumar Gupta, **Surya Pratap Singh** “Bridging Trauma and Parkinson’s Disease: Mechanisms, Models, and Biomarkers of Post-Traumatic Parkinsonism” *Journal of Neurotrauma*, (2026)

3. Priyanka Kumari Keshri, Aaina Singh Rathore, Richa Singh, Hagera Dilnashin, Shekhar Singh, Nitesh Kumar Gupta, Singh Ankit Satyaprakash & **Surya Pratap Singh** “18 β -Glycyrrhetic acid attenuates endoplasmic reticulum stress and neuroinflammation via the PI3K/AKT-dependent pathway in MPTP/p-induced Parkinson’s disease mouse model” **3 Biotech** Volume 16, article number 138, (2026),

4. Priyanka Kumari Keshri, Aaina Singh Rathore, Richa Singh, Hagera Dilnashin, Shekhar Singh, Nitesh Kumar Gupta, Singh Ankit Satyaprakash, Kumud Tiwari, **Surya Pratap Singh** “18 β -Glycyrrhetic Acid Regulates Endoplasmic Reticulum Stress and Autophagy Dysregulation in the MPTP/p-Induced Model of Parkinson Disease” **Molecular Neurobiology**. Volume 62, pages 16659–16678, (2025), <https://doi.org/10.1007/s12035-025-05274-w> IF: 4.8

5. Richa Singh, Aaina Singh Rathore, Hagera Dilnashin, Priyanka Kumari Keshri, Nitesh Kumar Gupta, Singh Ankit Satya Prakash, Walia Zahra, Shekhar Singh, **Surya Pratap Singh** “HAT and HDAC: Enzyme with Contradictory Action in Neurodegenerative Diseases” **Molecular Neurobiology**. Volume 61, pages 9110–9124, (2024) 10.1007/s12035-024-04115-6, IF: 4.6

6. Obulapathi Ummadisetty, Akhilesh, Anagha Gadepalli, Deepak Chouhan, Utkarsh Patil, **Surya Pratap Singh**, Sanjay Singh, Vinod Tiwari “Dermorphin [D-Arg2, Lys4] (1-4) Amide Alleviates Frostbite-Induced Pain by Regulating TRP Channel-Mediated Microglial Activation and Neuroinflammation”. **Molecular Neurobiology**. Volume 61, pages 6089–6100, (2024), 10.1007/s12035-024-03949-4, IF: 4.6

7. Smriti Singh, Priyanka Kumari Keshri, Vijaya Nath Mishra, Surya Pratap Singh “Moringa oleifera Modulates MPTP-induced Mitochondrial Dysfunction in Parkinson’s Mouse Model: An in Silico and In Vivo Analysis” **Journal of Pharmacology and Pharmacotherapeutics** , Volume 14, Issue 3 (2024) <https://doi.org/10.1177/0976500X231220085>.

8. Poonam Rawat, Bhanu Kumar, Ankita Misra, Surya Pratap Singh, Sharad Srivastava. In silico guided in vitro study of traditionally used medicinal plants reveal the alleviation of post-menopausal symptoms through ER β binding and MAO-A inhibition. **Journal of Biomolecular Structure and Dynamics** Pages 13515-13528. <https://doi.org/10.1080/07391102.2023.2276317>. IF: 2.7

9. Hagera D, Birla Hareram, Keshwani C, Singh SS, Zahra W, Rathore AS, Singh R, Keshri, PK, **Singh SP**. Neuroprotective effects of *Tinospora cordifolia* via reducing the oxidative stress and mitochondrial dysfunction against rotenone-induced PD mice. **ACS Chem Neurosci**. Sep 6, 2023; 14(17):3077-3087. doi: 10.1021/acscchemneuro.3c00216. Epub 2023 Aug (IF- 5.78)
10. Waiker, DK, Verma A, Akhilesh, Gajendra TA, Singh, N, Roy A, Dilnashin, H, Tiwari, V, Trigun, SK, **Singh , SP**, Krishnamurthy, S, Lama, P Davisson, VJ, Shrivastava, SK. Design, Synthesis, and Biological Evaluation of Piperazine and *N*-Benzylpiperidine Hybrids of 5-Phenyl-1,3,4-oxadiazol-2-thiol as Potential Multitargeted Ligands for Alzheimer's Disease Therapy. **ACS Chem Neurosci**. Jun 7, 2023; 14(11):2217-2242. doi: 10.1021/acscchemneuro.3c00245. Epub 2023 May 22. (IF- 5.78)
11. Rathore AS, Singh SS, Birla H, Zahra W, Keshri PK, Dilnashin H, Singh R, Singh S, **Singh SP**. Curcumin Modulates p62-Keap1-Nrf2-Mediated Autophagy in Rotenone-Induced Parkinson's Disease Mouse Models. **ACS Chem Neurosci**. 2023. doi: 10.1021/acscchemneuro.2c00706. (IF- 5.78)
12. Singh R, Zahra W, Singh SS, Birla H, Rathore AS, Keshri PK, Dilnashin H, Singh S, **Singh SP**. Oleuropein confers neuroprotection against rotenone-induced model of Parkinson's disease via BDNF/CREB/Akt pathway. **Sci Rep**. 2023;13(1):2452. doi: 10.1038/s41598-023-29287-4. (IF- 4.997)
13. Agrawal H, Thakur K, Mitra S, Mitra D, Keswani C, Sircar D, Onteru S, Singh D, **Singh SP**, Tyagi RK, Roy P. Evaluation of (Anti)androgenic Activities of Environmental Xenobiotics in Milk Using a Human Liver Cell Line and Androgen Receptor-Based Promoter-Reporter Assay. **ACS Omega**. 2022;7(45):41531-41547. doi: 10.1021/acsomega.2c05344. PMID: 36406583. (IF- 4.132)
14. Zahra W, Birla H, Singh SS, Rathore AS, Dilnashin H, Singh R, Keshri PK, Singh S, **Singh SP**. Anti-Parkinsonian effect of *Mucuna pruriens* and Ursolic acid on GSK3 β /Calcium signaling in neuroprotection against Rotenone-induced Parkinsonism. **Phytomed Plus**. 2022;2:100343.
15. Katiyar P, Singh Rathore A, Banerjee S, Nathani S, Zahra W, **Singh SP**, Sircar D, Roy P. Wheatgrass extract imparts neuroprotective actions against scopolamine-induced amnesia in mice. **Food Funct**. 2022;13(16):8474-8488. doi: 10.1039/d2fo00423b. (IF – 6.317)
16. Thakur K, Goud ESK, Jawa Y, Keswani C, Onteru S, Singh D, **Singh SP**, Roy P, Tyagi RK. Detection of endocrine and metabolism disrupting xenobiotics in milk-derived fat samples by fluorescent protein-tagged nuclear receptors and live cell imaging. **Toxicol Mech Methods**. 2022;1-14. doi: 10.1080/15376516.2022.2128704. (IF – 4.11)

17. Zahra W, Birla H, Singh SS, Rathore AS, Dilnashin H, Singh R, Keshri PK, Gautam P and **Singh SP**. Neuroprotection by *Mucuna pruriens* in neurodegenerative diseases. **Neurochem Res.**2022;47, 1816-1829. (IF- 4.414)
18. Uniyal A, Akhilesh, Rathore AS, Keshri PK, **Singh SP**, Singh S, Tiwari V. Inhibition of pan-Aurora kinase attenuates evoked and ongoing pain in nerve injured rats via regulating KIF17-NR2B mediated signaling. **Int Immunopharmacol.** 2022;106:108622.(IF-4.932)
19. Keswani C, Dilnashin H, Birla H, Roy P, Tyagi RK, Singh D, Rajput VD, Minkina T and **Singh SP**. Global footprints of organochlorine pesticides: a pan-global survey. **Environ Geochem Health.**2022;44,149-177. (IF- 4.898)
20. Singh AK, Singh SS, Rathore AS, **Singh SP**, Mishra G, Awasthi R, Mishra SK, Gautam V, Singh SK. Lipid-Coated MCM-41 Mesoporous Silica Nanoparticles Loaded with Berberine Improved Inhibition of Acetylcholine Esterase and Amyloid Formation. **ACS Biomater Sci Eng.** 2021. (IF-5.395)
21. Raj S, Singh SS, **Singh SP**, Singh P. Evaluation of Triclosan-induced reproductive impairments in the accessory reproductive organs and sperm indices in the mice. **Acta Histochem.** 2021;123(5):151744. (IF-2.14)
22. Sharma D, Kumari S, Rani P, Onteru SK, Roy P, Tyagi RK, **Singh SP**, Singh D. Organochlorine pesticide dieldrin upregulate proximal promoter (P1) driven CYP19A1 gene expression and increases estrogen production in granulosa cells. **ReprodToxicol.**2021;106:103-108. (IF-3.421)
23. Birla H, Keswani C, Singh SS, Zahra W, Dilnashin H, Rathore AS, Singh R, Rajput M, Keshri PK and **Singh SP**.Unraveling the Neuroprotective Effect of *Tinospora cordifolia* in a Parkinsonian Mouse Model through the Proteomics Approach. **ACS Chemical Neuroscience.** 2021;12(22), 4319-4335.(IF-5.78)
24. Rathore AS, Birla H, Singh SS,Zahra W, Dilnashin H, Singh R, Keshri PK and **Singh SP**. Epigenetic Modulation in Parkinson's Disease and Potential Treatment Therapies. **Neurochem Res.**2021;46, 1618–1626. (IF-4.414)
25. Sharma D, Rani P, Onteru SK, Roy P, Tyagi RK, **Singh SP**& Singh D. Reverse transcription-loop mediated isothermal amplification (RT-LAMP) assay for detection of AhR receptor responsive xenobiotics. **Toxicol Mech Methods.** 2021;31:5,359-366. (IF-4.019)
26. Subba R, Sandhir R, **Singh SP**, Mallick BN, Mondal AC. Pathophysiology linking depression and type 2 diabetes: Psychotherapy, physical exercise, and fecal microbiome transplantation as damage control. **Eur J Neurosci.** 2021;53(8):2870-2900. (IF-3.698)
27. Sharma P, Mandal MB, Katiyar R, Singh SP, Birla H. A comparative study of effects of 28-day exposure of bisphenol A and bisphenol S on body weight changes, organ histology, and relative organ weight. **Int J App Basic Med Res**2021;11:214-20.

28. Pratap SS, Keswani C, **Singh SP**, Sansinenea E, Xuan Hoat T. *Trichoderma spp.* mediated induction of systemic defense response in brinjal against *Sclerotinia sclerotiorum*. **Curr Res Microb Sci.** 2021;2:100051. (IF-8.134)
29. Singh SS, Rai SN, Birla H, Zahra W, Rathore AS, Dilnashin H, Singh R and **Singh SP**. Neuroprotective Effect of Chlorogenic Acid on Mitochondrial Dysfunction-Mediated Apoptotic Death of DA Neurons in a Parkinsonian Mouse Model. **Oxid Med Cell Long.** 2020;(2):1-14. (IF-7.31)
30. Zahra W, Rai SN, Birla H, Singh SS, Rathore AS, Dilnashin H, Singh R, Keswani C, Singh RK, **Singh SP**. Neuroprotection of Rotenone-Induced Parkinsonism by Ursolic Acid in PD Mouse Model. **CNS Neurol Disord Drug Targets.** 2020;19(7):527-540. (IF-3.926)
31. Singh SS, Rai SN, Birla H, Zahra W, Rathore AS, and **Singh SP**. NF- κ B mediated neuroinflammation in Parkinson's disease and potential therapeutic effect of polyphenols. **Neurotox Res.** DOI: 10.1007/s12640-019-00147-2. 2020. (IF-3.978)
32. Chitara MK, Keswani C, Varnava KG, Birla H, Dilnashin H, **Singh SP**, Sarojini V, Sperry J, Singh HB. Impact of the alkaloid colletotrichumine A on the pathogenicity of *Colletotrichum capsici* in *Capsicum annum* L. *Rhizosphere.* 2020;(1);16:100247. (IF-3.437)
33. Keswani C, Singh SP, Cueto L, García-Estrada C, Mezaache-Aichour S, Glare TR, Borriess R, **Singh SP**, Blázquez MA, Sansinenea E. Auxins of microbial origin and their use in agriculture. *Applied Microbiology and Biotechnology.* 2020;12:1-7. (IF-5.56)
34. Rai U, Kosuru R, Prakash S, **Singh SP**, Birla H, Tiwari V, Singh S. Tetramethylpyrazine prevents diabetes by activating PI3K/Akt/GLUT-4 signalling in animal model of type-2 diabetes. **Life Sci.** 2019;(1);236:116836. (IF-6.78)
35. Rai SN, Singh BK, Rathore AS, Zahra W, Keswani C, Birla H, Singh SS, Dilnashin H, **Singh SP**. Quality Control in Huntington's Disease: a Therapeutic Target. **Neurotox Res.** 2019;36(3):612-626. (IF-3.978)
36. Kumar G, Mukherjee S, Paliwal P, Singh SS, Birla H, **Singh SP**, Krishnamurthy S, Patnaik R. Neuroprotective effect of chlorogenic acid in global cerebral ischemia-reperfusion rat model. **NaunynSchmiedebergs Arch Pharmacol.** 2019. (IF-3.19)
37. Sharma P, Tripathi A, Tripathi PN, Singh SS, **Singh SP**, and Shrivastava SK. Novel Molecular Hybrids of N-Benzylpiperidine and 1,3,4-Oxadiazole as Multitargeted Therapeutics to Treat Alzheimer's Disease. **ACS Chemical Neuroscience.** 2019 (IF-5.78)
38. Birla H, Keswani C, Rai SN, Singh SS, Zahra W, Dilnashin H, Rathore AS, **Singh SP**. Neuroprotective effects of *Withaniasomnifera* in BPA induced-cognitive dysfunction and oxidative stress in mice. **Behav Brain Funct.** 2019;15(1):9.(IF-3.95)

39. Rai SN, Zahra W, Singh SS, Birla H, Keswani C, Dilnashin H, Rathore AS, Singh R, Singh RK, **Singh SP**. Anti-inflammatory Activity of Ursolic Acid in MPTP-Induced Parkinsonian Mouse Model. **Neurotox Res.** 2019;(IF-3.978)
40. Ram RM, Tripathi R, Birla H, Dilnashin H, **Singh SP**, Keswani C. Mixed PGPR consortium: an effective modulator of antioxidant network for management of collar rot in cauliflower. **Archives of Phytopathology and Plant Protection** 2019;52(7–8): 844–862.(IF-0.735)
41. Rai SN, Dilnashin H, Birla H, Singh SS, Zahra W, Rathore AS and **Singh SP**. The Role of PI3K/Akt and ERK in Neurodegenerative Disorders. **Neurotox Res.** 2019;35(3):775-795.(IF-3.978)
42. Keswani C, Prakash O, Bharti N, Vilchez JI, Sansinenea E, Lally RD, Borriss R, **Singh SP**, Gupta VK, Fraceto LF de Lima R. Re-addressing the biosafety issues of plant growth promoting rhizobacteria. **Sci Total Environ.** 2019;690:841-852.(IF-10.753)
43. Keswani C, Dilnashin H, Birla H, **Singh SP**. Unravelling efficient applications of agriculturally important microorganisms for alleviation of induced inter-cellular oxidative stress in crops. **Acta Agriculturae Slovenica.** 2019;114(1):121–130.(IF-0.589)
44. Birla H, Rai SN, Singh SS, Zahra W, Rawat A, Tiwari N, Singh RK, Pathak A, **Singh SP**. *Tinospora cordifolia* Suppresses Neuroinflammation in Parkinsonian Mouse Model. **Neuromolecular medicine.** 2019;1-2.(IF-4.103)
45. Tripathi PN, Srivastava P, Sharma P, Tripathi MK, Seth A, Tripathi A, Rai SN, **Singh SP**, and Shrivastava SK. Biphenyl-3-oxo-1, 2, 4-triazine linked piperazine derivatives as potential cholinesterase inhibitors with anti-oxidant property to improve the learning and memory. **Bioorg chem.** 2019;85:82-96.(IF-5.307)
46. Srivastava P, Tripathi PN, Sharma P, Rai SN, **Singh SP**, Srivastava RK, Shankar S, Shrivastava SK. Design and development of some phenyl benzoxazole derivatives as a potent acetylcholinesterase inhibitor with antioxidant property to enhance learning and memory. **Eur J Med Chem.** 2019;163:116-135.(IF-3.698)
47. Singh SS, Rai SN, Birla H, Zahra W, Kumar G, Gedda MR, Tiwari N, Patnaik R, Singh RK, **Singh SP**. Effect of Chlorogenic acid supplementation in MPTP intoxicated mouse. **Frontiers in Pharmacology.** 2018;9:757.(IF-5.988)
48. Rai SN, Zahra W, Birla H, Singh SS, **Singh SP**. Commentary: Mild endoplasmic reticulum stress ameliorates lipopolysaccharide-induced neuroinflammation and cognitive impairment via regulation of microglial polarization. **Frontiers in aging neuroscience.** 2018;10:192. (IF-5.702)
49. Rai SN, Birla H, Zahra W, Sen Singh S and **Singh SP**. Commentary: Synaptic vesicle glycoprotein 2C (SV2C) modulates dopamine release and is disrupted in Parkinson disease. **Front. Synaptic Neurosci.** 2018;9:18.(IF-3.567)

50. Rai SN, Singh SS, Birla H, Zahra W, Rathore A, Singh P, **Singh SP**. Commentary:Metformin reverses TRAP1 mutation associated alterations in mitochondrial function in Parkinson's disease. **Frontiers in aging neuroscience**. 2018;10:221.(IF-5.702)
51. Rai SN, Birla H, Singh SS, Zahra W, Patil RR, Jadhav JP, Gedda MR and **Singh SP**.*Mucuna pruriens* Protects against MPTP Intoxicated Neuroinflammation in Parkinson's Disease through NF- κ B/pAKT Signaling Pathways. **Front. Aging Neurosci**.2017;9:421.(IF-5.702)
52. Westfall S, Lomis N, Kahouli I, Dia SY, **Singh SP**, Prakash S. Microbiome, probiotics and neurodegenerative diseases: deciphering the gut brain axis. **Cell Mol Life Sci**. 2017;74(20):3769-3787. (IF-9.207)
53. Rai SN, Birla H, Zahra W, Singh SS, **Singh SP**. Immunomodulation of Parkinson's disease using *Mucuna pruriens* (Mp). **J Chem Neuroanat**.2017;85:27-35.(IF-3.097)
54. Singh M, **Singh SP**, and Rachna R. Antioxidant, cytotoxicity, and stability evaluation of ginkgo biloba extract-based microemulsions for enhanced therapeutic activity. **Asian J Pharm Clin Res**.2017;335-40.(IF-7.292)
55. Singh M, Kaur R, Rajput R, **Singh SP**and Rachana. Intranasal drug delivery – new concept of therapeutic implications for effective treatment of CNS disorders. **International Journal of Pharmaceutical Sciences and Research**. 2017;3194-3205.(IF-5.875)
56. Singh M, **Singh SP**, Rachana R. Development, characterization and cytotoxicity evaluation of Ginkgo biloba extract (EGB761) microemulsion for intranasal application. **J App Pharm Sci**. 2017;7(01):024-034. (IF-1.376)
57. Westfall S, Lomis N, **Singh SP**, Prakash S. Ferulic Acid Produced by *Lactobacillus fermentum* NCIMB 5221 Reduces Symptoms of Metabolic Syndrome in *Drosophila melanogaster*. **J MicrobBiochem Technol**.2016;8:272-284.(IF-5.89)
58. Rai SN, Yadav SK, Singh D, **Singh SP**.Ursolic acid attenuates oxidative stress in nigrostriatal tissue and improves neurobehavioral activity in MPTP-induced Parkinsonian mouse model. **J Chem Neuroanat**.2016;71:41-9. (IF-3.097)
59. Pant J, Pant MK, Chouhan S, **Singh SP**, Deshpande SB. Toxic Chemical from Plastics Attenuates Phenylbiguanide-induced Cardio-respiratory Reflexes in Anaesthetized Rats.**Indian JPhysiolPharmacol**. 2015;59(2):204-10.(IF-0.252)
60. WestfallS, Lomis N, **Singh SP**, Dai SY and Prakash S. The Gut Microflora and its Metabolites Regulate the Molecular Crosstalk between Diabetes and Neurodegeneration. **J Diabetes Metab**. 2015;6(8):1-16.(IF-5.76)
61. ChauhanAK, Ahmad A, **Singh SP**and Kumar A (2015). Biodesulfurization of Benzonaphthothiophene by *Gordoniasp*. IITR100. **International Biodeterioration & Biodegradation**. (IF-4.907)

62. Chauhan AK, Ahmad A, **Singh SP** and Kumar A. Nucleotide sequencing of *dszABC* genes from a desulfurizing strain *Mycobacterium phlei* SM120-1. **International Journal of Applied Biochemistry** 2015;3:1-5.(IF-2.926)
63. Chetan Keswani, **Surya P. Singh** and H.B. Singh (2015). A Superstar in Biocontrol Enterprise: *Trichoderma* spp.
64. Chouhan S, Yadav SK, Prakash J, Westfall S, Ghosh A, Agarwal NK, **Singh SP**. Increase in the expression of inducible nitric oxide synthase on exposure to bisphenol A: A possible cause for decline in steroidogenesis in male mice. **Environ Toxicol Pharmacol.** 2015;13(1):404-416.(IF-4.86)
65. Chauhan AK, **Singh SP** and Kumar A (2014). Cloning, Sequencing and Characterization of the 'Desulfurization Gene Cluster' From an Isolated Strain *Gordonia* sp. IITR100. **Journal of Applied Biotechnology**, 2(2), p65. (IF-3.53)
66. Prakash J, Chouhan S, Yadav SK, Westfall S, Rai SN, **Singh SP**. *Withaniasomnifera* alleviates Parkinsonian phenotypes by inhibiting apoptotic pathways in dopaminergic neurons. **Neurochem Res.** 2014;9(12):2527-36.(IF-4.414)
67. Yadav SK, Prakash J, Chouhan S, Westfall S, Verma M, Singh TD, **Singh SP**. Comparison of the neuroprotective potential of *Mucuna pruriens* seed extract with estrogen in 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)-induced PD mice model. **Neurochem Int.** 2014;65:1-13.(IF-4.297)
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Research Projects:

S No.	Title of Project	Funding Agency	Amount(in rupees)	Year of sanction and Duration
1.	Mechanism of Neuroprotection of Parkinson in mouse by Estrodiol during oxidative damage caused by MPTP and role of estrogen receptors.	CSIR, New Delhi.	20 Lakh	2012 3 years
2.	Cognitive impairment in Parkinson disease and its alleviation using indigenous plant extracts.	DST, New Delhi.	30.2 Lakh	2012 3years
3.	Randomized Control Trial to study the effect of Yoga on neurological function, quality of life, biomarker and imaging of ALS patients.	DST, New Delhi	32 Lakh	2017 3 years
4.	Development of a rapid and robust high throughput reporter cell-based bioassay for detection of xenobiotics in milk.	NASF, ICAR New Delhi	65 Lakh	2018 3 years
5.	Epigenetic potential of <i>Mucuna pruriens</i> in Parkinson's disease.	ICMR, New Delhi	10 Lakh	2021 1 years
6.	Regulation of DNA methylation in Parkinson's Disease through <i>Mucuna pruriens</i> .	ICMR, New Delhi	46.11 Lakh	2024 3years

Books/ Chapter Published:

1. Zahra W, Birla H, Singh SS, Rathore AS, Dilnashin H, Singh R, Keshri PK and **Singh SP**. Medicinal Plants and Natural Compounds as Antiparkinsonian Agents. Neurodegenerative Diseases: Multifactorial Degenerative Processes, Biomarkers and Therapeutic Approaches. 2022;199-217. DOI: 10.2174/9789815040913122010014
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3. Singh SS, Rai SN, Birla H, Zahra W, Rathore AS, Dilnashin H, and **Singh SP**. Techniques Related to Disease Diagnosis and Therapeutics. Application of Biomedical Engineering in Neuroscience. DOI: 10.1007/978-981-13-7142-4_22.

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8. Intellectual Property Issues in Microbiology (2019) Singh HB, Keswani C, **Singh SP**. (Eds.). Springer-Nature, Singapore. 425 pages, ISBN- 978-981-13-7465-4.
9. “Lab Manual of Molecular Biology”, Media Associate Delhi (2013) (ISBN No 978-81-909182-7-5).
10. “Elementary Biochemistry”, Urvashyam publication, New Delhi (2013) (ISBN No 978-93-82265-06-1).
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