Curriculum Vitae

Full Name:	Dr. C	Charan Singh			
Designation	Assistant Professor				
Department:	Department of Pharmaceutical Sciences				
Campus:	Srinagar/Chauras				
Communication Address	HNB Chaura	tment of Pharmaceutical Sc Garhwal University (A Cen as Campus, P.O. Kilkileshw Tehri Garhwal, Pin-249161	tral University), var, Via Kirtinagar		
Mobile:	+91 9	888184816			
Email	c.singl	nniper009@gmail.com			
Educational Qualification:		M. Pharm., Ph.D.			
Postdoc Experience		National Postdoc: UIPS, P IBRO Exchange Fellow: T SERB-SIRE Fellow: The D	The University of Queer University of Texas at A	nsland, Brisb Austin, Austin	ane, Australia n, USA
Teaching Experience		4 Years (UG and PG)	Research Expe		6.5 Years
Research Interest	and Fie	elds of Specialization: Nan	omedicine, Lung and B	rain Targetin	ıg
c. Asian-Pacificd. Indian Acadee. Indian Pharmf. AAPS NIPER	e Pharm Biomed Society my of N acy Gra R Studer elease So ision 5 Guided-	acy Council lical Research Society, LM(7 for Neurochemistry, 18-7- leuroscience, LS-292 iduate Association, 6220 nt Chapter-Vice Chair (2010 ociety-Indian Chapter, 2020	IND-001)-2011)		
Awards/Fellowsh	-	tional Desearch Experience	(SIDE) Followship, G	out of India	to work at Universit
• 2022-SERB of Texas at .		tional Research Experience USA		ove of mula	to work at Universit
• 2022-Interna	• 2022-International Brain Research Organization (IBRO)-Associate School				
		Brain Research Organizatio		••	
5 awardees • 2019 - Early	in Asia Career	Brain Research Organization -Pacific countries) Award, International Brain tess at international level)			
	1 st IBRO-APRC International Fellowship for attending Amarkantak School of Neurosciences, he ra Gandhi National Tribal University, Amarkantak, India				
	IBRO/APRC International Fellowship for attending Chandigarh Associate Neuroscience held Iniversity, Chandigarh, India				
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• 2018- IBRO-APRC Exchange Fellowship Award to work at The University of Queensland, Brisbane, Australia (1 among 4 awardees in Asia-Pacific countries)

- 2017- IBRO-SfN International Travel Award to attend the Society for Neuroscience (SfN) annual meeting held in Washington DC, USA
- **2017**-1st IBRO-APRC Travel Award for attending Banasthali School of Neurosciences held at Banasthali University, Jaipur, India
- 2017-Best Poster Presentation Award at National Symposium held at Panjab University, Chandigarh, India
- 2016-DST-SERB National Post Doctoral Fellowship under Start-Up Research Grant (Young Scientists) component (INR 19.20 Lakh)
- 2015-2nd Prize in Oral presentation in 9th Chandigarh Science Congress held at Panjab University, Chandigarh, India
- 2013-Institute (NIPER) Senior Research Fellowship for Ph.D. (Formulations) (2013-2015)
- 2011-Institute (NIPER) Junior Research Fellowship for Ph.D. (Formulations) (2011-2013)
- **2009**-Institute Fellowship (NIPER) for M. Pharm. (Formulations) (2009-2011)
- 2008-Pharmacy Quiz Award in B. Pharm., Maharishi Dayanand University, Rohtak, Haryana

Professional Achievements

- Bentham Ambassador 2019-2020 by Bentham Science Publisher
- Resource Person in AICTE, Govt of India, sponsored two weeks Faculty Development Programme at ISF College of Pharmacy, Moga from Jun 8th-22th, 2019.
- Resource Person (Session Chair)" in the International Conference, ICNAND2023 held at Department of Pharmacy, IGNTU, Amarkantak, India

Grants completed/ongoing (As Principle Investigator)

- 1. 2021: Aerosolized Smart Nanocomposites for the Treatment of Drug Resistant Tuberculosis. Approved by DST-SERB, Govt of India (INR 37.54 Lakh) (Ongoing 2021-2024)
- 2. **2020:** Development of Nanocarriers for Brain Targeting by International Brain Research Organization (IBRO)/Dana Foundation, France (**USD 1250**) (**International Grant**)
- 3. 2019: Development of Nanaocarriers for Brain Targeting funded by International Brain Research Organization (IBRO), France. Early Career Award-IBRO (Euro 5000) (International Grant)
- 2016-2018: Nanostructured Carriers Mediated Combination Therapy for Efficient Treatment of HIV-Associated Neurocognitive disorders (HANDs). Start-Up Research Grant (Young Scientists). National Post-Doctoral Fellowship, SERB-DST, (INR 19.20 Lakh) (Completed)

Granted Patent

Charan Singh, Manjinder Singh Gill, Sarasija Suresh. Novel Nano-Formulations of Antitubercular Drugs.

IN Patent 333221

Selected publications during recent years

- Sanchit Arora, Vishal Kumar, Lakshay Kapil, Arti Singh, Ashish Kumar Agrawal, Charan Singh. Piperine Loaded Metal Organic Frameworks Reverse Doxorubicin Induced Chemobrain in Adult Zebrafish. Journal of Controlled Release (Just Accepted) IF- 11.47 (as Corresponding author)
- Vishal Kumar, Charan Singh, Arti Singh. Oral administration of hydroalcoholic extract of Centella asiatica ameliorates neurotoxicity and neurobehavioural deficits in 3-nitropropionic acid-induced Huntington's like symptoms in adult zebrafish. Rejuvenation Research (Just Accepted) IF- 3.19
- Deeksha Shukla, Nilay Kumar Nandi, Baljinder Singh, Arti Singh, Bhupinder Kumar, Raj Kumar Narang, Charan Singh. Ferulic acid-loaded drug delivery systems for biomedical applications. Journal of Drug Delivery Science and Technology (Just Accepted) IF-5.06 (as Corresponding author)
- Vishal Puri, Vishav Prabhjot Kaur, Arti Singh, and Charan Singh. Recent Advances on Drug Delivery Applications of Mucopenetrative/Mucoadhesive Particles: A Review. Journal of Drug Delivery Science and Technology (Just Accepted) IF-5.06 (as Corresponding author)
- Agrawal S, Singh V, Singh C, Singh A. A review on pathophysiological aspects of Sleep Deprivation. CNS Neurol Disord Drug Targets. 2022 May 12. IF: 4.4.
- Sima Kujur, Arti Singh, Charan Singh. Novel Metal Organic Frameworks Improves In Vitro Lung

Deposition and Efficacy of Rifampicin. J Aersol Med Pul Drug Del (Just Accepted) IF-2.57 (as Corresponding author)

 Tania Bajaj, Charan Singh, Ghanshyam Das Gupta. Novel metal organic frameworks improves solubility and oral absorption of mebendazole: Physicochemical characterization and in vitro-in vivo evaluation. 2022, Pg 103264. Journal of Drug Delivery Science and Technology. IF-5.06 (as Corresponding author)

Full list of publications available at:

https://scholar.google.com/citations?user=N5qALfwAAAAJ&hl=en

Book Chapters

- VP Kaur, SN Rai, T Bajaj, H Heer, V Puri, VK Chaturvedi, A Singh, Md Ashraf, MP Singh, C Singh. Impact of Common Natural Compound in the Treatment of Alzheimer's Disease in autism spectrum disorder and Alzheimer's Disease 1, 63-82. Published by Springer Nature (Corresponding author)
- Heer H, Kaur VP, Singh Arti, Singh C*. Microbubbles in Drug Delivery Systems. Advanced Drug Delivery Systems, Wiley Publisher, USA, Pp 125-143. https://doi.org/10.1002/9781119711698.ch6. Print ISBN:9781119711667. Online ISBN:9781119711698 (Corresponding author)
- Heer H, Kaur VP, Bajaj T, Singh A, Singh C*. Impact of nano-formulations of natural compounds in the management of neurodegenerative diseases. Recent Advances in the treatment of Neurodegenerative Disorders . Pp. 178-207 (30). ISBN: 978-1-68108-773-3 (Print) ISBN: 978-1-68108-772-6 (Online). Published by Bentham Science Publisher, U.A.E. (Corresponding author)
- Suresh S, Singh C, Jena SK, Bagri S, Ahuja BK. Nanocrystals: A Novel Approach for Drug Delivery. Nanotechnology: Novel Perspectives and Prospects, published by M/S McGraw Hill, USA. Pp 99-102. ISBN (13): 978-93-392-2109-6, ISBN (10): 93-392-2109-5
- Saini S, **Singh C**, Lohan S, Singh B. Nanotechnological Interventions for Neurodegenerative Disorders using Plant Bioactives: From Molecular Mechanisms to Clinical Translation. Nanobiomedicine Series, Published by Taylor and Francis, UK. Accepted, ISBN: 9780815348351
- Goyal AK, Bhandari S, **Singh C**, Rath G. Nanofibers for Delivery of Drugs and Bioactives. Nanobiomedicine Series, Published by Taylor and Francis, UK. Accepted, ISBN: 9780815348351
- Urvashi Langeh., Tania Bajaj. Priyanka Bajaj. Swati Kaushal. Diksha Saluja. Shelly Agarwal. Neelam Sharma, Bharti Verma, Meena Yadav, Rima Singh. Charan Singh, Arti Singh. COVID-19 Altered Brain Signaling Pathways. COVID-19: Current Challenges and Future Prospective, 2021, 76-100. Published by Bentham Science Publisher, U.A.E. ISBN: 978-981-14-9864-0
- Singh C, Kaur R, Kaur R, Bahal R, Bhoop BS. Multi-Dimensional Approaches For Targeted Drug Delivery Of Nanostructures. Nanobiomedicine Series, Published by Taylor and Francis, UK. Chapter 6. Pages21. eBook ISBN9781351138901