

Faculty Profile

Faculty Name	Dr. Daisy Arora
Designation	Professor
Qualification	Ph.D., M. Pharm (Pharmaceutics)
Email	daisy.pharmacy@piet.co.in
Area of Interest	Topical drug delivery systems, Design of Experiments (DoE), Quality by Design (QbD), Nanocosmeceuticals, Pharmacokinetics
Work Experience (Total)	12 years
<ul style="list-style-type: none"> • Teaching 	12 years
<ul style="list-style-type: none"> • Research 	7 years
<ul style="list-style-type: none"> • Industry 	-
<ul style="list-style-type: none"> • Others (Teaching IELTS) 	-
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	Biopharmaceutics and Pharmacokinetics, Computer Aided Drug Delivery Systems, Regulatory Affairs, Cosmeceuticals, Industrial Pharmacy, Novel Drug Delivery Systems, Pharmaceutical Microbiology.
Membership of Professional Bodies	Lifetime membership of IPGA, SPER
Research Publications	<p><u>ORCID id:</u> https://orcid.org/0000-0002-1358-2156</p> <p><u>Scopus Author ID:</u> 36338383700</p> <p><u>Google scholar link:</u></p> <p>https://scholar.google.com/citations?user=1ktwWO8AAAJ&hl=e</p> <p><u>n</u></p>
<ul style="list-style-type: none"> • Research Papers UGC-CARE 	6

• Research Papers SCOPUS	4
• Research Papers WoS/SCI/ABDC	12
• List of Publications	List attached
Book and Chapter Publications	
• Books Authored published by International Publishers	-
• Books Authored published by National Publishers	-
• Publication of Chapter in Edited Books	3
• Editor of Book by International Publishers	-
• Editor of Book by National Publishers	-
• Translation Work of Book	-
• List of Book and Chapter Publications	List Attached
Patents	
• Published	NIL
• List of published patent(s)	NIL
• Filed	01
• List of filed patent(s)	Daisy Arora, Sanju Nanda. “Topical anti-aging composition based on Resveratrol loaded Transethosomal hydrogel”. Application Number: Ph. Sc.-508 dated 19.02.2021 and IPR-75 dated 20.02.2021.
PhD Guidance	
• Degree Awarded	

<ul style="list-style-type: none"> • Thesis Submitted 	
M. Pharm Guidance	
<ul style="list-style-type: none"> • Degree Awarded 	17
<ul style="list-style-type: none"> • Thesis Submitted 	3
Research Project	
<ul style="list-style-type: none"> • List of Research project 	<ul style="list-style-type: none"> • Got Funding of 16 lakhs INR from A.I.C.T.E. on “Development of oral mucosal vaccine against visceral leishmaniasis (Kala - azar) using targeted nanocarriers” as CO- PI. • “Multifunctional approach for targeting HER-2 positive breast cancer cells – Design and Development of immunonanoparticles” to Department of biotechnology & Technology (DBT) - Govt. of India of worth 15 lakhs INR as CO-PI. • Formulation and optimization of various novel drug delivery systems such as ethosomes, nanoparticles, emulsomes, nanofibres etc. for anticancer, intraocular, intravaginal and other delivery systems. • Animal studies and pharmacokinetics studies.
Consultancy	
<ul style="list-style-type: none"> • List of Consultancy 	
Awards & Honours	
<ul style="list-style-type: none"> • List of Awards & Honours 	<ul style="list-style-type: none"> • Qualified GATE exam in 2007 and received AICTE Scholarship. • Gold Medalist in M. Pharm. (University topper) Abbott Best Poster Award and Travel Grant Award at 2010 Singapore Symposium on Drug Delivery Systems, held at National University of Singapore, Singapore co jointly organized by Abbott laboratories, 20th- 23rd January 2010.

	<ul style="list-style-type: none"> • Budding Nanotechnologist Award at 4th Winter School on Nanotechnology in Advanced Drug Delivery held at NIPER, Punjab (India) on February 28 to March 04, 2011. • Bentham Ambassdor Award in 2020 for excellent research publication.
Invited lectures / Resource Person/ paper presentation in Seminars/ Conferences/full paper in Conference	
• International (Abroad)	02
• International (Within Country)	02
• National	04
• List of published papers	
Organizing National Conference/ International Conference/ FDP/STTP	
<ul style="list-style-type: none"> • List of Conference/FDP/STTP committee 	<ul style="list-style-type: none"> • One Day National Conference on “Advanced Bioanalytical Techniques, Artificial Intelligence and Health Sciences” Organised by ISF College of Pharmacy, Moga on December 24, 2018. (LOC member) • Two Days National Annual Conference of 54th The Indian Hospital Pharmacist’s Association on “Safe & Effective Medicines For All” during 13th and 14th

	<p>September 2019 Organized by ISF College of Pharmacy (An Autonomous College), Moga (Punjab). (LOC member)</p> <ul style="list-style-type: none"> • One day workshop on “HPLC Method Development” on 13th June 2019 organised by Waters India Pvt Ltd. At ISF College of Pharmacy, Moga. (LOC member) • “HPTLC instrumentation and Pharmacy Applications” during 14th -15th June 2019 organised by Anchrom Enterprises, Mumbai at ISF College of Pharmacy, Moga. (LOC member) • One week Faculty Development Programme Approved and Sponsored by IK Gujral Punjab Technical University, Jalandhar on “Application of tools in Pharmaceutical Education and Research” during 18th - 22nd December, 2018 at ISFCP. (Coordinator of the FDP) • AICTE Sponsored Two Weeks Faculty Development Programme on “Optimization Techniques and Recent Advances in Drug Delivery System” during 10th – 22nd June 2019, organized by ISF College of Pharmacy, Moga (Coordinator of the FDP) • AICTE sponsored Online STTP (in 4 phases) conducted at ISF College of Pharmacy, Moga. (Coordinator of STTP)
<p>Social Contributions and Sports</p>	
<ul style="list-style-type: none"> • List of Social Contributions and Sports 	<p>Past responsibilities:</p> <ul style="list-style-type: none"> • Coordinator: Internal Quality Assurance Cell (IQAC). Incharge filing of AQAR. • Secretary, Society of Pharmaceutical Education and Research (SPER)

	<p>Punjab Branch.</p> <ul style="list-style-type: none"> • Member of Steering committee of “NAAC” - NAAC application filing and inspection handled at ISF College of Pharmacy, Moga (Granted “A” Grade, NAAC Accreditation). • Member of NIRF committee, ranking filing • Member, Executive Committee, Alumni Association, ISFCP, Moga. • Member, Autonomous Committee (for smooth conduct of inspection) • Member and Women Representative, Grievance Redressal Committee, ISFCP, Moga
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LIST OF PUBLICATIONS

- Daisy Arora, Bharat Khurana, Amit K. Goyal, Shivani Paliwal, Suresh P. Vyas. “Oral Mucosal Immunization: Recent Advancement and Future Prospects”. *Current Immunology Reviews*, 2010, 6 (3): 234-259. (Impact factor 1.213)
- Bharat Khurana, Daisy Arora, Amit K. Goyal, Abhishek Bhudiraja, Suresh P. Vyas. “siRNA delivery using nanocarriers – An efficient tool for gene silencing”. *Current Gene Therapy*, 2010, 10 (2): 139-55. (Impact factor 2.4)
- Neelam Poonia, Murugesan Senthil Kumar, Daisy Arora, Nanjaian Mahadevan. “Development of Cisplatin Loaded Poly (d, l-lactide-co-glycolide)-Poly (ethyleneglycol) Immunonanoparticles for Epidermal Growth Factor Receptor (EGFR) Positive Pancreatic Cancer Cells”. *International Journal of Recent Advances in Pharmaceutical Research*, 2011, 1 (3): 14-24.
- Vivek Gill, Murugesan Senthil Kumar, Bharat Khurana, Daisy Arora, Nanjaian Mahadevan. “Development of Amphotericin B Loaded Modified Emulsomes for Visceral Leishmaniasis: *Invitro*” *International Journal of Recent Advances in Pharmaceutical Research*, 2011, 1(2):14-20.

- Daisy Arora, Bharat Khurana, Senthilkumar M., Suresh P. Vyas. “Oral Immunization against Hepatitis B Virus using Mannosylated Bilosomes”. *International Journal of Recent Advances in Pharmaceutical Research*, 2011, 1: 45-51.
- Sarita Pahal, Daisy Arora, Senthilkumar M., N. Mahadevan. “Development of Paclitaxel loaded Immunonanoparticles for HER-2 Positive Breast Cancer Cells”. *International Journal of Recent Advances in Pharmaceutical Research*, 2011, 1: 25- 39.
- Bharat Khurana, Amit K. Goyal, Abhishek Bhudiraja, Daisy Arora, Suresh P. Vyas. “Lipoplexes vs. Nanoparticles: pDNA/siRNA Delivery”. *Drug Delivery*, 2013, 20(2):57-64. (Impact factor 4.80)
- Daisy Arora, Bharat Khurana, R.K. Narang, Sanju Nanda. “Quality by Design (QbD) Approach for Optimization and Development of Nano Drug Delivery Systems” *Trends in Drug Delivery*. 2016; 3(3):23-32.
- Daisy Arora, Sukhbir Kaur, RK Narang, Geeta Aggarwal. Statistical Optimization for Development of Colon Targeted Ph Dependant Metronidazole Granules Using Full Factorial Design. *International Journal of Pharmaceutical Sciences and Research*, 2018, 9 (3): 1152-1159. (Impact factor 0.412)
- Bharat Khurana, Daisy Arora, R K Narang. Topical Delivery of Nanoemulsion for Antipsoriatic Drugs. *Journal of Drug Delivery and Therapeutics* 2018, 8 (5): 1-11. (Impact factor 0.212)
- Daisy Arora, Bharat Khurana, Amit K. Goyal, Goutam Rath, Sanju Nanda. Recent advances in nanosuspension technology for drug delivery. *Current Pharmaceutical Design*, 2018, 24 (21), 2403-2415. (Impact factor 3.059)
- Daisy Arora, Sanju Nanda. Quality by Design driven Development of Resveratrol Loaded Ethosomal hydrogel for Improved Dermatological Benefits via Enhanced Skin Permeation and Retention. *International Journal of Pharmaceutics*, 2019, 567, (Impact factor 4.8)
- Daisy Arora, S Rana, GD Gupta, A Chaudhary, B Singh. Oral Mucosal Immunization Recent Advancement and Exploit Dendritic Cell Targeting. *Journal of Drug Delivery and Therapeutics*, 2019.
- Bharat Khurana, Daisy Arora, R K Narang. “FbD supported development and in vitro evaluation of Carbomer based Resveratrol loaded Topical Antipsoriatic Nanoemulgel for its targeted skin delivery”, *Pharmaceutical Nanotechnology* Published online: Jan 2020

- Daisy Arora, Bharat Khurana, Sanju Nanda “DoE directed optimization, development and evaluation of resveratrol loaded ultradeformable vesicular cream for topical antioxidant benefits”. *Drug Development and Industrial Pharmacy*, Published online: 27 Jan 2020, (Impact Factor 2.4)
- Harpal Kaur, Neeraj Mishra, Bharat Khurana, Sukhbir Kaur and Daisy Arora “DoE based optimization and development of spray-dried chitosan-coated alginate microparticles loaded with cisplatin for the treatment of cervical cancer”. *Current Molecular Pharmacology*, Published online: May 2020, (Impact Factor: 3.3)
- Harjit Singh, Bharat Khurana, Daisy Arora and Sukhbir Kaur “Formulation, Optimization and in vitro / in vivo characterization of Spray Dried Doxorubicin Loaded Folic Acid Conjugated Gelatin Nanoparticles” *Current Molecular Pharmacology*, Published online: May 2020, (Impact Factor: 3.3)
- Aditya Sharma, Karan Mittal, Daisy Arora and Subrahmanya Sarma Ganti “A Comprehensive Review on Strategies for New Drug Discovery and Enhanced Productivity in Research and Development: Recent Advancements and Future Prospectives” *Mini Reviews in Organic Chemistry* Published online : June 2020 DOI: 10.2174/1570193X17999200529100808 (Impact Factor: 1.8)
- Bharat Khurana, Daisy Arora, R K Narang “QbD based exploration of Resveratrol loaded polymeric micelles based carbomer gel for topical treatment of Plaque Psoriasis: In vitro, ex vivo and in vivo studies” *Journal of Drug Delivery Science and Technology*, Volume 59, October 2020, 101901 (Impact Factor: 2.8)
- Bharat Khurana, Daisy Arora, R K Narang “Potential of polymeric micelles based gel for skin drug delivery” *Future Journal of Pharmaceutical Sciences*, Under Review, (SCOPUS)
- Daisy Arora, Bharat Khurana, Sanju Nanda “Statistical development and in vivo evaluation of Resveratrol loaded topical gel containing deformable vesicles for a significant reduction in photoinduced skin aging and oxidative stress” *Drug Development and Industrial Pharmacy*, 2020 Nov;46(11):1898-1910. doi: 10.1080/03639045.2020.1826507. (Impact Factor 2.4).
- Arun Singh Lalotra, Vishesh Singh Shelly Agrawal, Bharat Khurana, Daisy Arora “A Comprehensive Review on Nanotechnology-Based Innovations in Topical Drug Delivery for Treatment of Skin Cancer” *Current Pharmaceutical Design*, 26 (44): 5720-5731. (Impact Factor 2.3)

BOOK CHAPTERS:

- Contribution in Book chapter entitled “Semisolid Dosage Form” in the book Pharmaceutical Technology I by CBS Publisher, ISBN: 978-81-239-2294-2 (2012).
- Daisy Arora, Bharat Khurana, Sanju Nanda, Ashish Baldi. “Nanomedicines and Its Applications: An Overview”. *Life Sciences in Medicines [ISBN 978-93-85404- 33-7]*, published by Adbi Parwaaz Parkashan, Mansa, pg- 131. (2016).
- Daisy Arora and Sanju Nanda. “Skin Targeting Approaches for Nano Delivery of Anti aging Drugs”. *Pharmaceutical Nanotechnology (MULTI VOLUME SET) – ELSEVIER – (Accepted for publishing)*.
- Daisy Arora, Bharat Khurana, Sanju Nanda. “Targeted Drug Delivery Systems”, In *Nanotechnology and Targeted Drug Delivery Systems*, editors: Anil K. Sharma, Raj K. Keservani, Rohit Dutt, published by Studera Press. Hardbound, 9789385883729 (2019).
- Daisy Arora and Bharat Khurana “Computer-Aided Biopharmaceutical Characterization: gastrointestinal absorption simulation and *in silico* computational modeling”, In *Computer Aided Pharmaceutics and Drug Delivery*, editors: Dr. Vikas Anand Saharan, Springer Nature Singapore Pte Ltd. (2021) In publication house.