


BRIEF PROFILE

	Name	Dr. Archna (Archna Dhasmana)
	Designation	Assistant Professor
	Area	Biotechnology and Biomedical Engineering
	Email	Dhasmana15bio@gmail.com ; archnadhasmana@uttaranchaluniversity.ac.in
	Contact No.	9536885390
Professional Experience	<p>TEACHING EXPERIENCE</p> <ul style="list-style-type: none"> Working as an Assistant Professor in Department of Biotechnology, SALS, Uttaranchal University, Dehradun, UK from January 2019 to till date. Working as a Lecturer in Department of Biotechnology, Dr. KNMIPER Modinagar, Ghaziabad from December 2012 to June 2013. <p>RESEARCH EXPERIENCE:</p> <ul style="list-style-type: none"> MHRD Junior Research Fellowship: Department of Polymer and Process Engineering, IIT Roorkee, India, July, 2013 – May, 2015. MHRD Senior Research Fellowship: Department of Polymer and Process Engineering, IIT Roorkee, India, July, 2015 – June, 2018. 	
Education Qualification	<ul style="list-style-type: none"> Ph.D (Biotechnology and Biomedical engineering), “<i>Evaluation of Cadaver Goat-skin As Scaffold for Skin tissue engineering</i>”, Dept. Polymer and Process Engineering, IIT Roorkee. M.Phil (Genetics and Plant Breeding), CCS University, Meerut M.Sc (Biotechnology), CCS University, Meerut B.Sc (Biotechnology), CCS University, Meerut 	
Area of Research	<ul style="list-style-type: none"> Tissue engineering and regenerative medicine Animal cell and tissue culture techniques Plant tissue culture techniques Molecular biology and cytogenetics Drug-delivery system (cancer herbal drug) 	
Current Research, If any	<ul style="list-style-type: none"> Tissue engineering and drug delivery system 	
Publications: <ul style="list-style-type: none"> Articles in Journals (only Scopus/SCI) Books edited/Chapter contributed/ Books authored 	Articles <ul style="list-style-type: none"> Archna, Shivnaz, N Tandon, Ananad, “<i>Somatic Chromosomal studies in Ocimum basilicum & Ocimum sanctum L.</i>”, International Journal of Phytomedicine 5 (2013), 330-340. Dhasmana Archna, Singh L, Roy P, Mishra N.C, “<i>Silk</i>” 	

	<p><i>fibroin protein modified acellular dermal matrix for tissue repairing and regeneration</i>". Materials Science and Engineering: C. (2018); 97: 313-324. doi.org/10.1016/j.msec.2018.12.038.</p> <ul style="list-style-type: none"> • Dhasmana Archna, Singh Atul, Rawal Sagar "Biomedical grafts for tracheal tissue repairing and regeneration "Tracheal tissue engineering: an overview". J Tissue Eng Regen Med. (2020), 14 (5). doi.org/10.1002/term.3019. <p>Books</p> <ul style="list-style-type: none"> • S. Malik and Archna Dhasmana, "STEM CELL AND TISSUE ENGINEERING", Akinik Publication(2020). • Book chapter edited/review, "IMPLICATION OF NANOPARTICLES IN DROSOPHILA TOXICOLOGY RESEARCH, Applications of Nanomaterials in Agriculture, Food Science, and Medicine, IGI Global publications. • Sweta K. Gupta, Narayan C. Mishra., Archna Dhasmana, "Decellularization Methods for Scaffold Fabrication. In.: Methods in Molecular Biology". Humana Press (2017). doi. 10.1007/7651_2017_34 <p>Patent</p> <ul style="list-style-type: none"> • Narayan C. Mishra, Archna Dhasmana, Lubhan Singh, Surajit Bhattacharya, Amit Kumar Dinda. "SCAFFOLD FOR WOUND HEALING AND/OR OTHER TISSUE ENGINEERING APPLICATIONS'. Indian Patent Application No. 201611036300
<p>Conferences/Seminars/Workshops/ FDP/MDP attended</p>	<ul style="list-style-type: none"> • Sagar Rawal, Archna Dhasmana, "Herbal drug entrapped 3D matrix for better tissue regeneration and wound healing". World Environment Summit 2020, 18th -19th January, 2020 Paintal Memorial Auditorium, Vallabhbai Patel Chest Institute University of Delhi, Delhi (India) • Jaydeep Verma, Sonam Kumari and Archna Dhasmana, "Agro waste biocomposite for the removal of heavy metals from industrial effluent". National Seminar on "Strategies for conservation & Sustained utilization of Biodiversity", 18th-19th October 2019, SALS, Uttaranchal University • Sagar Rawal, Archna Dhasmana, "Herbal drug entrapped 3D matrix for better tissue regeneration". 6th international conference on "Translational Approaches in Clinical, Environment & Biotechnological Research" GenoPro-2019, 11th-12th October 2019, Inverties University, Bareilly. • Archna Dhasmana and Dr. N. C. Mishra, "Eggshell

membrane protein modified acellular goat dermal scaffold for potential application in skin tissue engineering”.

International Conference on Advances in Polymer Science Technology (APA 2017), 22-25 Nov 2017, New Delhi, India.

- **Archna Dhasmana** and Dr. N. C. Mishra, “*Acellular cadaver goat-dermal graft for skin tissue engineering application*”. Endling Conference World Biotechnology Congress (WBC 2017), 20-22 Feb 2017, JNU New Delhi, India.
- **Archna Dhasmana**, “*Role of Biotechnology in agriculture*”. “Health and environment awareness programme” under NSS- 2009
- Ayushi Gupta, Sagar Rawal, **Archna Dhasmana** “*Development of natural polymer based scaffold for drug delivery and tissue engineering application*”. National Seminar on “Strategies for conservation & Sustained utilization of Biodiversity”, 18th-19th October 2019, SALS, Uttaranchal University
- Sagar Rawal, **Archna Dhasmana**, “*Eco-friendly aspects for the conservation of Biodiversity*”, National Seminar on “Strategies for conservation & Sustained utilization of Biodiversity”, 18th-19th October 2019, SALS, Uttaranchal University, Dehradun, Uttarakand
- **Archna Dhasmana**, Sandhya Singh, Narayan. C. Mishra, Vinay Khandelwal, “*Development of natural polymer based scaffold for drug delivery & tissue engineering application*”, International Conference on New Approaches in Biotechnology & Biosciences “NABB-2016”, Feb 18-20, 2016, Confernce centre RBS engineering College, Agra.
- **Archna Dhasmana** and Narayan. C. Mishra, “*Natural Biomimetic Nanofibrous Extracellular Matrix Based Skin Grafts for Wound Healing and Skin Tissue Engineering*”. NANOBIOTECK– 2017, 6 – 8 December 2017, Trivandrum, India.
- **Archna Dhasmana** and Narayan. C. Mishra, “*Fabrication and characterization of acellular goat- skin graft for wound healing*”. International Conference on Advances in Polymer Science & Technology (APA 2017), 22-25 Nov 2017, New Delhi, India.
- **Archna Dhasmana** and Narayan. C. Mishra, “*Fabrication of goat dermal scaffold and its modification with silk fibroin for wound healing*”. 6th Asian Biomaterials Congress (ABMC6), October 25-27, 2017, Thiruvananthapuram, India.

	<ul style="list-style-type: none"> • Hemant Singh, Archna, Narayan. C. Mishra, “<i>Development of edible food-packaging material form natural ingredients</i>”, International Conference on New Approaches in Biotechnology & Biosciences “NABB-2016”, Feb 18-20, 2016, Conference centre RBS engineering College, Agra. • Participated in IPR workshop on “Basics of Intellectual Property Rights” organized by IPR Chair, IIT Roorkee. • Participated in QIP workshop on “Molecular Simulation Techniques” organized by Department of Polymer and Process Engineering, IIT Roorkee. • Participated in one day workshop on “Nano drug delivery system (Industry-academia Interaction)” organized by Centre of Excellence: Nanotechnology, IIT Roorkee. • Participated in Indo-US Symposium on “Regenerative Medicine; From Bedside to Bench” at AIIMS New Delhi. • Participated in Quiz competition inter-institutional BIOFEST-2009 in IMS- Ghaziabad. • Participated in the National symposia on “Molecular Cell Biology-2009” by Shivaji College University of Delhi. <p>Webinar/FDP</p> <ul style="list-style-type: none"> • National Webinar Series: Environment -The Spectrum of Life" 1st JULY - 7th JULY, 2020, Vasundhara- The Green Society, Law College, Uttaranchal University Dehradun. • Webinar cum Awareness Programme “ROLE OF YOUTH AGAINST DRUG ABUSE INTERNATIONAL DAY AGAINST DRUG ABUSE & ILLICIT TRAFFICKING”, 26th JUNE, 2020 Organized By Department of Biotechnology, School of Applied and Life Sciences (SALS). Uttaranchal University, Dehradun • Quality Control & Analytical Techniques (22nd -27th Feb, 2019), Department of Biotechnology and Chemistry, SALS, Uttaranchal University.
<p>Award/Certificate/Prize received</p>	<ul style="list-style-type: none"> • Qualified GATE-2012 in Biotechnology with 98.48 percentile (AIR-222). • Awarded Council of Scientific and Industrial research (CSIR) NET, LS (AIR-40) (June 2013). • MHRD Junior Research Fellowship: Department of Polymer and Process Engineering, IIT Roorkee, India, July, 2013 – May, 2015. • MHRD Senior Research Fellowship: Department of Polymer and Process Engineering, IIT Roorkee, India, July, 2015 – June, 2018. • Best Poster presentation in “<i>Health and environment</i>”

	<p><i>awareness programme”</i> under NSS- 2009 programme, Dr. KNMIPER, Modinagar.</p> <ul style="list-style-type: none"> ● Best Poster presentation award: <i>International Conference on Advances in Polymer Science and Technology</i> (APA 2017), 22-25 Nov 2017, New Delhi, India.
<p>Any extra-curricular activities</p>	<ul style="list-style-type: none"> ● Worked as Chief Bhawan Councillor (Indira Bhawan), IIT Roorkee, for the year 2016-2017. ● Worked as Technical Seceratory (Indira Bhawan) IIT Roorkee, for the year 2016-2017. ● Member of Student affair Council (SAC), IIT Roorkee, for the year 2016-2017. ● Awarded Silver Medal in IIT Roorkee, Inter-year Badminton for the Academic year 2016-2017.