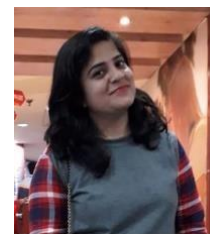


Leena Sapra

Research Scholar

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EDUCATIONAL TRAINING

2018-Present *Ph.D.* (Biotechnology), **All India Institute of Medical Sciences** (AIIMS), New-Delhi India.

2015-2017 *M.Sc.* Biotechnology, **AIIMS**, New-Delhi India.

2011-2015 *B.Sc.* (Biochemistry), **Delhi University**, New Delhi-India.

PhD THESIS DETAILS

PhD Thesis Title: Establish the role of “Breg-Treg-Th17” cell axis in probiotics mediated modulation of bone health
Supervisor: Dr. Rupesh K. Srivastava Associate Professor Translational Immunology, Osteo-immunology & Immunoporosis Lab (TIOIL) Department of Biotechnology All India Institute of Medical Sciences (AIIMS) New Delhi, India-110029
Supervisor Contact Details: rupesh_srivastava13@yahoo.co.in & rupeshk@aiims.edu

KEY TECHNICAL SKILLS

- Handling of mice, blood isolation via retro-orbital and submandibular route, drug dosing.
- Development of post-menopausal osteoporotic mice model (Ovx).
- Development of Acute Respiratory Distress Syndrome mice (ARDS) model
- Immune cell isolation from bone marrow, spleen, lymph nodes and gastrointestinal tract (GUT) mainly Peyer's patches, small intestine and large intestine and validation via Flow Cytometry.
- Establish and optimized in vitro & in vivo models.
- Cell cultures (Leydig cells, testicular macrophages, Tregs, Th17, Bregs, Th9, Macrophages) under ex vivo conditions.
- Western blotting, ELISA, Immunofluorescence Imaging, FLOW CYTOMETRY.
- Isolation of primary osteoblasts and osteoclasts cells from the bone marrow cells.
- Basic knowledge of HPLC, FTIR, SEM, Micro CT and Mass Spectrometry.

- Potential of carrying out projects independently.
- Interactive presentation skills.

AWARDS

S.No.	PRIZE / AWARD	DATE & VENUE	ORGANIZER
1.	Second Critic Prize , Sustainable Developmental Goals (SDG)	17 th October 2022, 2 nd Annual Research Day Celebration	AIIMS
2.	Third Prize for Poster presentation	17 th October 2022, 2 nd Annual Research Day Celebration	AIIMS
3.	Dr. Arun Fotedar Memorial: Best Published Work, AIIMSONIAN Award	1 st October 2022.	AIIMS
4.	"G. P. Talwar Young Scientist Award"	December 2021	47 th -Indian Immunology Society Annual Conference, India
5.	BILL & MELINDA GATES FOUNDATION TRAVEL AWARD	2021	American Society of Microbiology (ASM) and the Federation for European Microbiological Societies (FESEM)
6.	First prize Oral presentation	12 th to 16 th October 2019, Jaipur	IUIS-IIS-FIMSA, International conference on Basic and Advanced Immunology
7.	First prize poster presentation	26 th March 2019, 1 st Annual Research Day	AIIMS
8.	Senior Research Fellowship (SRF), CSIR	2021-Present	CSIR
9.	Junior Research Fellowship (JRF), CSIR	2018-2020	CSIR
10.	Graduate Aptitude Test in Engineering (GATE)	2016	MHRD, India
11.	National Eligibility Test (NET-JRF)	2016	UGC-CSIR

PUBLICATIONS (Research: 06; Review: 08 & Book Chapters: 05)

S.No.	Title	Journal	Authors	Vol.	Year
1.	High Salt Diet Impairs Male Fertility in Mice via Modulating the Skeletal Homeostasis	Reproductive Sciences (IF: 3.3)	Saugandhika, S., Sapra, L., Kumari, K. and Srivastava, R.K.,	14	2023
1.	Cissus quadrangularis (Hadjod) Inhibits RANKL- Induced Osteoclastogenesis and Augments Bone Health in an Estrogen-Deficient Preclinical Model of Osteoporosis Via Modulating the Host Osteoimmune System https://doi.org/10.3390/cells12020216	Cells (MDPI) (IF: 7.7)	Azam, Z.; Sapra, L. ; Baghel, K.; Sinha, N.; Gupta, R.K.; Soni, V.; Saini, C.; Mishra, P.K.; Rupesh K. Srivastava*	12	2023
2.	Osteometabolism: Metabolic Alterations in Bone Pathologies https://doi.org/10.3390/cells1233943	Cells (MDPI) (IF: 7.7)	Rupesh K. Srivastava*, Leena Sapra , and Pradyumna K. Mishra	23	2022
3.	Crocetin attenuates osteoclastogenesis and enhances bone health by skewing the immunoporotic “Treg-Th17” cell axis in post-menopausal osteoporotic mice model 100302, 10.1016/j.phyplu.2022.100302	Phytomedicine Plus (IF: 6.6)	Zafar Azam, Leena Sapra , Asha Bhardwaj, Sumedha Yadav, Pradyumna Kumar Mishra, Prashant Shukla, Versha Sharma and Rupesh K. Srivastava*.	3	2022
4.	Bifidobacterium longum ameliorates ovariectomy-induced bone loss via enhancing anti-osteoclastogenic and immunomodulatory potential of regulatory B cells (Bregs) 10.3389/fimmu.2022.875788	Frontiers in Immunology (IF: 8.8)	Leena Sapra , Niti Shokeen, Konica Porwal, Chaman Saini, Asha Bhardwaj, Mary Mathew, Pradyumna Kumar Mishra, Naibedya Chattopadhyay, Hamid Yousf Dar, Bhupendra Verma and Rupesh K. Srivastava*.	10	2022
5.	IL-21 plays an important role in modulating “Th17-Treg” cell axis in leprosy Type 1 reactions. https://doi.org/10.1016/j.cyto.2022.155821 .	Cytokine (IF: 4.0)	Chaman Saini*, Leena Sapra , Asha Bhardwaj, Mohd. Tarique, Alpna Sharma, Neena Khanna, V. Ramesh, Poonam Puri, Rupesh K. Srivastava*.	152	2022

6.	Long-term implications of COVID-19 on bone health: pathophysiology and therapeutics. https://doi.org/10.1007/s00011-022-01616-9	Inflammation Research (IF: 7.0)	Leena Sapra , Chaman Saini, Bhavuk Garg, Ranjan Gupta, Bhupendra Verma, Pradyumna K. Mishra & Rupesh K. Srivastava*.	9	2022
7.	The Rising Era of “Immunoporosis”: Role of Immune System in the Pathophysiology of Osteoporosis. doi.org/10.2147/JIR.S351918	Journal of Inflammation Research (IF: 6.92)	Srivastava RK*, Sapra L.	15	2022
8.	“Osteomicrobiology”: The Nexus between Bone and Bugs. doi: 10.3389/fmicb.2021.812466	Frontiers in Microbiology (IF: 6)	Bhardwaj A, Sapra L. , Tiwari A, Mishra PK, Sharma S and Srivastava RK*.	12	2022
9.	Regulatory B cells (Bregs) inhibit osteoclastogenesis and play a potential role in ameliorating ovariectomy induced bone loss 10.3389/fimmu.2021.691081	Frontiers in Immunology (IF: 8.8)	Leena Sapra, Asha Bhardwaj, Pradyumna K. Mishra, Bhavuk K. Garg, Bhupendra Verma, Gyan C. Mishra and Rupesh K. Srivastava*.	12	2021
10.	Lactobacillus rhamnosus attenuates bone loss and maintains bone health by skewing Treg-Th17 cell balance in Ovx mice. https://doi.org/10.1038/s41598-020-80536-2	Scientific reports (IF: 5.8)	Sapra, Leena , Hamid Y. Dar, Asha Bhardwaj, Amit Pandey, Surbhi Kumari, Zaffar Azam, Vishu Upmanyu and Rupesh K. Srivastava*	11	2021
11.	“Immunoporosis”: Immunology of Osteoporosis 10.1007/s40011-021-01238-x	Proceedings of the National Academy of Sciences, India Section B: Biological Sciences (invited)	Sapra, L. , Azam, Z., Rani, L., Saini, C., Bhardwaj, A., Shokeen, N & Srivastava, R. K.	-	2021
12.	COVID-19: Immunology, Immunopathogenesis and Potential Therapies. https://doi.org/10.1080/08830185.2021.1883600	International Reviews of Immunology (IF: 5.5)	Asha Bhardwaj, Leena Sapra , Chaman Saini, Zaffar Azam, Pradyumna K. Mishra, Bhupendra Verma, Gyan C. Mishra and Rupesh K. Srivastava*.	-	2021
13.	Phytotherapy for treatment of cytokine storm in COVID-19. 5, 51-75, 10.52586/4924	Frontiers in Bioscience (IF: 4)	Leena Sapra , Asha Bhardwaj, Zaffar Azam, Deeksha	26	2021

			Madhry, Bhupendra Verma, Sumit Rathore, Rupesh K. Srivastava*		
14.	Phytoconstituents as novel osteo-protective agents: Implications in bone health. 1;25:1259-1296	Frontiers in Bioscience (IF: 4)	Zaffar Azam, Vikas Pandey, Navita Gupta, Leena Sapra , Hamid Y. Dar, Niti Shokeen, Asha Bhardwaj, Ayaan Ahmad, Vandana Soni, Rupesh K. Srivastava*.	25	2020

MEMBERSHIPS

❖ Life Member-*Indian Immunology Society (IIS)*, New Delhi, India.

Referees:

Referee 1 (PhD Supervisor):

Dr. Rupesh Kumar Srivastava
Associate Professor
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Referee 2 (Co-Guide):

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