


# ***CURRICULUM VITAE***

## **HEMANT AGRAWAL, Ph.D.**

*J-302, Mahima Elite, New Sanganer Road, Jaipur-302019, India*

<b>PERSONAL DETAILS</b>		
E-mail ID	<a href="mailto:flowsols@gmail.com">flowsols@gmail.com</a>	
Phone no	+91-7665130114	
Status	Flow Cytometry Consultant [Founder Director of Flowcytometry Solutions Pvt Ltd, India ( <a href="http://www.flowsols.com">www.flowsols.com</a> )]	

<b>EDUCATION/TRAINING</b>			
<b>Institution And Location</b>	<b>Degree</b>	<b>Year(s)</b>	<b>Field of Study</b>
Dr. Bhim Rao Ambedkar University (BRAU), Agra	B.Sc.	1997-2000	Industrial Microbiology
Jawaharlal Nehru University (JNU), New Delhi	M.Sc.	2000-2002	Life Sciences
University of Duisburg-Essen, Essen, Germany	Ph.D.	2003-2006	Immunology
Oklahoma Medical Research Foundation (OMRF), Oklahoma City, USA	Postdoc	2006-2009	Immunology Rheumatology/
Northwestern University, Chicago Campus, Chicago, USA	Postdoc	2009-2011	Immunology

## **POSITIONS AND HONORS**

	<b>Positions</b>
2002-2003	Guest Scientist, Department of Gastroenterology and Hepatology, University Hospital Essen, University of Duisburg-Essen, Essen, Germany
2003-2006	Ph.D. thesis research with F. U. Schade, Department of Trauma Surgery, University Hospital Essen, University of Duisburg-Essen, Essen, Germany
2006-2009	Postdoctoral Fellowship with Dr. Susan Kovats, Arthritis & Immunology Program, Oklahoma Medical Research Foundation, Oklahoma City, OK, USA
2009-2011	Postdoctoral Fellowship with Dr. Harris Perlman, Div. of Rheumatology/Dept. of Medicine, Northwestern University, Chicago, IL, USA
2010- Cont.	Faculty member at the Annual Indo-US Cytometry workshops, India
2011-2013	Application support scientist for FlowJo software (TreeStar Inc., USA) for the Indian Subcontinent and Middle East
2013- Cont.	Founder Director of Flowcytometry Solutions Pvt Ltd, India

2013- Cont.	Application support scientist (Consultant) for FCS Express software (Denovo Software, USA) for India region
2014-2017	Flow Cytometry Consultant to Vaccine Technology Centre, Zydus Cadila, Ahmedabad
2015-2016	Flow Cytometry Consultant to Bio-Rad, India
2015- Cont.	Flow Cytometry Consultant to Venture Center, Pune
2016- Cont.	Member—Organizing Committee for the Indo-US Cytometry Workshops
2016-2018	Scientific Manager (Cell Imaging), TTP Labtech India Pvt Ltd
2018- 2022	Business Development Consultant, Quantum Technology Group Inc., USA
2019-2020	Flow Cytometry Consultant to ThermoFisher Scientific, India
2019- Cont.	Managing Officer for Trust for Education and Training in Cytometry (TETC), India
2020- Cont.	Advisory member of Biotechnology Society of Nepal (BSN), Nepal
2020- 2021	Scientific Manager (Spectral Flow Cytometry from Cytek), Labindia Instruments Pvt Ltd, India
2021-Cont	Member--ISAC-Live Education Delivery Task Force (ISAC-LEDTF)
2021-Cont	Member--ISAC-Instruments for Science (I4S) Task Force
2022-Cont	Member—Board of Studies, Amity Institute of Molecular Medicine & Stem Cell Research (AIMMSCR), Amity University, Noida, India
2022-2023	Scientific Advisor (Flow Cytometry)— Epigeneres Biotech Private Limited, Mumbai, India
2023-Cont	Reviewer/Co-Editor/Handling Editor in Frontiers Journal

Dr. Agrawal has co-authored many peer-reviewed scientific publications and has been invited as speakers at various national and international meetings & conferences. He is also a committee member and managing officer of the Trust for Education and Training in Cytometry (TETC), India, which conducts the prestigious annual Indo-US Cytometry Workshops and other cytometry meetings in India and neighboring countries. He is experienced in flow cytometry experimental design, data acquisition, data analysis and presentation of immunophenotyping, intracellular staining, cell proliferation, cell cycle, apoptosis, cytometric bead array etc. He runs a flow cytometry consultancy company, “Flowcytometry Solutions (P) Ltd” ([www.flowsols.com](http://www.flowsols.com)), which imparts training and consultancy in the field of flow cytometry in India and neighboring countries. He has conducted over 85 onsite flow cytometry workshops all over India and neighboring countries, where participants got the training to design, acquire and analyze the flow cytometry experiments. He also runs online flow cytometry courses, which are widely appreciated and attended by participants from all over the world. To mention his organization has started the “Annual Online Certificate Course in Flow Cytometry” in 2023, which is one of its kind in the world. Additionally, he has conducted over 40 online flow cytometry courses where thousands of researchers, students, technicians, faculties and doctors have been trained in various applications and aspects of flow cytometry.

For more information about Dr. Agrawal work and his organization Flowcytometry Solutions Pvt Ltd, please visit [www.flowsols.com](http://www.flowsols.com)

## PEER-REVIEWED PUBLICATIONS

### Publications

- Stefanie B. Flohé, **Hemant Agrawal**, Daniel Schmitz, Michaela Gertz, Sascha Flohé, and F. Ulrich Schade. (2006). "Dendritic cells during polymicrobial sepsis rapidly mature but fail to initiate a protective Th1-type immune response." *J. Lec. Bio.*, March 79(3), 473-481.
- Stefanie B. Flohé, Jörg M. Bangen, Sascha Flohé, MD, **Hemant Agrawal**, Katja Bergmann, and F. Ulrich Schade. (2007). "Origin of immunomodulation after blunt trauma: Involvement of extracellular Heat-Shock Proteins." *Shock*, May 27(5), 494-502.
- Flohé, S. B.\*, **Agrawal, H.\***, Flohé, S., Rani, M., Bangen, J. M., Schade, F. U. (2008). "Diverse efficiency of interferon- $\gamma$  and granulocyte macrophage colony-stimulating factor in restoring immune dysfunction of dendrite cells and macrophages during polymicrobial sepsis." *Mol. Med.*, May-June 14(5-6), 247-256. \*Noted authors contributed equally.
- **Agrawal, H.\***, Jacob, N.\*, Carreras, E.\*, Bajana, S.\*, Putterman, C., Turner, S., Neas, B., Mathian, A., Koss, M.N., Stohl, W., Kovats, S.\*, Jacob, C. O\*. (2009). "Deficiency of type I IFN receptor in lupus-prone NZM 2328 mice decreases dendritic cell numbers and activation and protects from disease." *J. Immunol*, Nov 1, 183(9), 6021-9. \*Noted authors contributed equally.
- John C. Scatizzi\*, Jack Hutcheson\*, Richard M. Pope, Gary S. Firestein, Alisa E. Koch, Melissa Mavers, Avraham Smason, **Hemant Agrawal**, G. Kenneth Haines III, Navdeep S. Chandel, Richard S. Hotchkiss, Harris Perlman. (2010). "Bim-Bcl-2 homology 3 mimetic therapy is effective at suppressing inflammatory arthritis through the activation myeloid cell apoptosis." *Arthritis and Rheumatism*, Feb 62(2): 441-51. \*Noted authors contributed equally.
- Qi-Quan Huang, Harris Perlman, Zan Huang, Robert Birkett, Lixin Kan, **Hemant Agrawal**, Alexander Misharin, Sandeep Gurbuxani, John D. Crispino, Richard M. Pope. (2010) "FLIP: a novel regulator of macrophage differentiation and granulocyte homeostasis." *Blood*, Dec 2, 116 (23), 4968-77.
- Eva Pastille, Sonja Didovic, Daniela Brauckmann, Meenakshi Rani, **Hemant Agrawal**, F. Ulrich Schade, Yang Zhang, and Stefanie B. Flohé. (2011). "Modulation of Dendritic Cell Differentiation in the Bone Marrow Mediates Sustained Immunosuppression after Polymicrobial Sepsis." *J Immunol*, Jan 15, 186(2), 977-86.
- Budinger GR, Mutlu GM, Urich D, Soberanes S, Buccellato LJ, Hawkins K, Chiarella SE, Radigan KA, Eisenbart J, **Agrawal H**, Berkelhamer S, Hekimi S, Zhang J, Perlman H, Schumacker PT, Jain M, Chandel NS. (2011) "Epithelial Cell Death is an Important Contributor to Oxidant-Mediated Acute Lung Injury." *Am J Respir Crit Care Med*, April 15, 183(8), 1043-54.

- Sarah R. Pickens, Nathan D. Chamberlain, Michael V. Volin, Arthur M. Mandelin II, **Hemant Agrawal**, Masanori Matsui, Takayuki Yoshimoto, Harris Perlman, Shiva Shahrara. (2011) "Local expression of IL-27 ameliorates collagen induced arthritis." *Arthritis and Rheumatism*, August 63 (8), 2289-2298.
- Susmita Sahoo, Ekaterina Klyachko, Tina Thorne, Sol Misener, Katherine Shinnick, Meredith Millay, Aiko Ito, Ting Liu, Christine Kamide, **Hemant Agrawal**, Harris Perlman, Gangjian Qin, Raj Kishore, Douglas W. Losordo. (2011) "Exosomes from Human CD34+ Stem Cells Mediate their Pro-angiogenic Paracrine Activity". *Circulation Research*, 109 (7), 724-728.
- Melissa Mavers, Carla M Cuda, Alexander V. Misharin, Angelica K Gierut, **Hemant Agrawal**, Evan Weber, G. Kenneth Haines III, Dimitrios Balomenos, Harris Perlman. (2012). "The Cyclin Dependent Kinase Inhibitor p21 Is Central for Resolution of Inflammatory Arthritis via its C-Terminal Domain". *Arthritis Rheum*. Jan; 64(1):141-52.
- Carla M. Cuda\*, **Hemant Agrawal\***, Alexander Misharin, G. Kenneth Haines III, Jack Hutcheson, Evan Weber, JA Schoenfeldt, Chandra Mohan, Richard M. Pope, and Harris Perlman (2012). "Myeloid cell-specific Fas expression is required to prevent systemic autoimmunity". *Arthritis Rheum*. Mar; 64(3): 808-20. \*Noted authors contributed equally.
- FuNien Tsai, Philip Homan, **Hemant Agrawal**, Alexander Misharin, Hiam Abdala-Valencia, G. Kenneth Haines III, Salina Dominguez, Christina Bloomfield, Rana Saber, Anthony Chang, Chandra Mohan, Jack Hutcheson, Anne Davidson, GR Budinger, Phillipe Bouillet, Andrea Dorfleutner, Christian Stehlik, Deborah Winter, Carla Cuda, and Harris Perlman (2017). "Bim Suppresses the Development of SLE by Limiting Myeloid Inflammatory Responses" *Journal of Exp Med*, Dec 4; 214(12): 3753–3773.

### **Book Chapters**

- Kovats S, Carreras E, **Agrawal H.** (2010) "Sex Steroid Receptors on Immune Cells" Chapter 3, Klein/Roberts (Eds.): *Sex hormones and Immunity to Infection*, Springer-Verlag Berlin Heidelberg Publication. (p 53-91) (DOI: 10.1007/978-3-642-02155-8\_3).
- Himanshu Tillu, Rekha Gour and **Hemant Agrawal** (2022) "Flow Cytometry and its Applications" Chapter 7, pages Book: *Genomic, Proteomics, and Biotechnology*, CRC Press, Taylor and Francis Group (<https://doi.org/10.1201/9781003220831>)

### **Google Scholar Citations** (<https://scholar.google.com/citations?user=hoR1DP4AAAAJ&hl=en>)

	All	Since 2019
Citations	1716	611
h-index	14	11
i10-index	14	11