

CURRICULUM VITAE

Mohd. Ayub Qadri, *PhD, FNASc, FNA*
Abdul Kalam Chair for Translational Research
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Date of birth: December 30th, 1960

EDUCATION:

Ph.D. National Institute of Immunology, New Delhi; 1989
Thesis title: “**Monoclonal antibodies against *Salmonella* Typhi and their use in diagnosis of typhoid**”

M.Sc. University of Kashmir; 1981
Major: Organic Chemistry
First position (Valedictorian)

B.Sc. University of Kashmir; 1979
Subjects: Chemistry, Botany and Zoology.

POSTDOCTORAL FELLOW Center for Immunology,
University of Texas Southwestern Medical Center,
Dallas, Texas, USA

HONORS AND AWARDS:

Recipient of **Gold Medal** and **Certificate of Distinction** in M.Sc.
Recipient of **Dr. Zakir Hussain Gold Medal** for Best Graduate of the Year (B.Sc.)

ACADEMIC AND PROFESSIONAL APPOINTMENTS

Professor
Abdul Kalam Chair for Translational Research
School of Health Sciences
Islamic University of Science and Technology
Awantipora, J&K (April, 2022 -)

INSA Senior Scientist
Hybridoma Laboratory
National Institute of Immunology
New Delhi
(February, 2021 - March 2022)

Scientist-in-charge 2002-2020
Hybridoma Laboratory
National Institute of Immunology
New Delhi

Staff Scientist VII 2016 – 2020
Staff Scientist VI 2011- 2016
Staff Scientist V 2006 - 2011
Staff Scientist IV 2002 - 2006
Staff Scientist III 1997 - 2002

December 1995-Nov.'97 Postdoctoral Fellow, University of Texas
(on a sabbatical) Southwestern Medical Center
 Dallas, Texas, USA

Staff Scientist II Hybridoma Laboratory,
1989 National Institute of Immunology,
 New Delhi, India

Pre-doctoral fellow National Institute of Immunology
(1984-1989) New Delhi, India

FELLOWSHIPS:

Fellow of the National Academy of Sciences, India, Allahabad

Fellow of the Indian National Science Academy, New Delhi

PROFESSIONAL AFFILIATION: Member, Indian Immunology Society

PUBLICATIONS:

Asif Amin, Aabid Mustafa Koul, Umer Majeed Wani, Faizah Farooq, Basit Amin, Zubair Wani, Asif Lone, **Ayub Qadri**, Raies A Qadri. (2023) Dissection of paracrine/autocrine interplay in lung tumor microenvironment mimicking cancer cell-monocyte co-culture models reveals proteins that promote inflammation and metastasis. *BMC Cancer* 23, 926. doi: 10.1186/s12885-023-11428-7

Yadav, J, **Qadri, A.** (2023) Induction and sustenance of antibacterial activities distinguishes response of mice to *Salmonella* Typhi from response to *Salmonella* Typhimurium. *Pathog Dis* Jan 25;ftad002. doi: 10.1093/femspd/ftad002. Online ahead of print.

Ismaeel S, **Qadri A** (2021) ATP-release drives inflammation with lysophosphatidylcholine. *ImmunoHorizons* 5(4): 219-233. doi: 10.4049/immunohorizons.2100023

Amin A, Mokhdomi T A, Bukhari S, Wani Z, Chikan N A, Shah B A, Koul A M, Majeed U, Farooq F, **Qadri A**, Qadri R A (2021) Lung cancer cell-derived EDA-containing fibronectin induces an inflammatory response from monocytes and promotes metastatic tumor microenvironment. *J. Cell Biochem.* Jan 4. doi: 10.1002/jcb.29883. Online ahead of print

Akhade AS, Atif SM, Lakshmi BS, Dikshit N, Hughes KT, **Qadri A***, **Subramanian N***. (2020) Type 1 interferon-dependent repression of NLRC4 and iPLA2 licenses down-regulation of *Salmonella* flagellin inside macrophages. *Proc. Natl. Acad. Sci. U S A.* 117(47):29811-29822. Nov 11:202002747. doi: 10.1073/pnas.2002747117. Online ahead of print *Corresponding authors

Yadav, J., Ismaeel, S, **Qadri, A.** (2020) Lysophosphatidylcholine potentiates antibacterial activity of polymyxin B. *Antimicrobial Agents and Chemotherapy* 64(12):e01337-20. doi: 10.1128/AAC.01337-20.

Sharma N., Akhade AS, Ismaeel S and **Qadri A** (2020) Serum borne lipids amplify TLR-activated inflammatory responses. *J. Leukoc. Biol.* DOI: 10.1002/JLB.3AB0720-241RR

Ahmed A, Akhade AS, **Qadri A** (2020) Accessibility of O-antigens shared between *Salmonella* serovars determines antibody-mediated cross-protection. *J. Immunol.* 205: 438. DOI: 10.4049/jimmunol.1900624

Yadav J, Dikshit N, Ismaeel S, **Qadri A.** (2020) Innate Activation of IFN- γ -iNOS Axis During Infection With *Salmonella* Represses the Ability of T Cells to Produce IL-2. *Front Immunol.* 11:514. doi: 10.3389/fimmu.2020.00514. eCollection 2020.

Parween F, Yadav J, **Qadri A.** (2019) The Virulence Polysaccharide of *Salmonella* Typhi Suppresses Activation of Rho Family GTPases to Limit

Inflammatory Responses From Epithelial Cells. *Front Cell Infect Microbiol.* 8;9:141. doi: 10.3389/fcimb.

Shivcharan S, Yadav J and **Qadri A** (2018) Host lipid sensing promotes invasion of cells with pathogenic Salmonella. *Sci. Rep.* 8, 15501.

Amin, A., Chikan, N.A., Mokhdomi, T.A., Bukhari, S., Koul, A.M., Shah, B.A., Gharemirshamlu, F.R., Wafai, A.H., **Qadri, A.**, Qadri, R.A. (2016). Iridogenin, a novel lead from Western Himalayan chemiome inhibits Fibronectin-Extra Domain A induced metastasis in Lung cancer cells. *Sci Rep.* 2016 Nov 16;6:37151. doi: 10.1038/srep37151. ISSN 2454-2156.

Sharma, N., Akhade AS, and **Qadri A.** (2016). Src kinases central to T-cell receptor signaling regulate Toll-like receptor – activated innate immune responses from human T cells. *Innate Immunity* 22: 238-44. ISSN 1753-4267.

Garg R, Akhade AS, Yadav J, **Qadri A.** (2015). MyD88-dependent pro-inflammatory activity in Vi polysaccharide vaccine against typhoid promotes Ab switching to IgG. *Innate Immunity* 21:778-83. ISSN 1753-4267.

Akhade AS, **Qadri A.** (2015). T-cell receptor activation of human CD4(+) T cells shifts the innate TLR response from CXCL8(hi) IFN- γ (null) to CXCL8(lo) IFN- γ (hi). *Eur J Immunol.* 45:2628-37. ISSN 1521-4141.

Amin A, Mokhdomi TA, Bukhari S, Wani SH, Wafai AH, Lone GN, **Qadri A**, Qadri RA. (2015). Tectorigenin ablates the inflammation-induced epithelial-mesenchymal transition in a co-culture model of human lung carcinoma. *Pharmacol Rep.* 67:382-7. ISSN 1734-1140.

Santhanam SK, Dutta D, Parween F and **Qadri A.** (2014). The Virulence Polysaccharide Vi Released by *Salmonella* Typhi Targets Membrane Prohibitin to Inhibit T-Cell Activation. *J. Infect. Dis.* 210: 79-88. ISSN 1537-6613.

Sharma N., Akhade AS. and **Qadri, A.** (2013) Sphingosine-1-phosphate suppresses TLR-induced CXCL8 secretion from human T cells. *J.Leukoc. Biol.* 93, 521-8. ISSN 0741-5400.

Rohini Garg and **Ayub Qadri.** 2010. Hemoglobin transforms anti-inflammatory *Salmonella typhi* virulence polysaccharide into a TLR-2 agonist. *J Immunol.* 184, 5980-7. ISSN 1550-6606.

Subramanian, N. and **Qadri, A.** 2006. Lysophospholipid sensing triggers secretion of flagellin from pathogenic salmonella. *Nat Immunol.* 7:583-9. ISSN 1529-2916.

Sharma, A. and **Qadri, A.** 2004. Vi polysaccharide of *Salmonella typhi* targets the prohibitin family of molecules in intestinal epithelial cells and suppresses early inflammatory responses. *Proc. Natl. Acad. Sci. U. S. A.* 2004, 101:17492-7. ISSN 1091-6490

Huang JC, Han M, Minguela A, Pastor S, **Qadri A**, Ward ES. T cell recognition of distinct peptide:I-A^u conformers in murine experimental autoimmune encephalomyelitis 2003. *J Immunol*.171:2467-77. ISSN 1550-6606.

Ayub Qadri and E. Sally Ward 2001. Activation of a T cell hybridoma by an alloligand results in differential effects on IL-2 secretion and activation induced cell death. *Eur. J. Immunol*. 31:3825-32. ISSN 1521-4141.

Ayub Qadri, C. Radu, J. Thatte, P. Cianga, B. Ober, R. Ober and E. Sally Ward 2000. A role for the region encompassing the c" strand of a TCR V α domain in T cell activation events. *J. Immunol*. 165:820-829. ISSN 1550-6606.

Ayub Qadri, J. Thatte, C. Radu, B. Ober and E. Sally Ward 1999. Characterisation of the interaction of a T cell receptor α chain variable domain with MHC class II I-A molecules *International Immunology* 11: 967-977. ISSN 1460-2377.

Jayant Thatte, **Ayub Qadri**, Caius Radu and E. Sally Ward 1999. Molecular requirements for T cell recognition by a major histocompatibility complex class II-restricted T cell receptor: The involvement of the fourth hypervariable loop of the Va domain. *J. Exp. Med*. 189: 509-519. ISSN 1540-9538.

Radu, C. G., B. O. Ober, L. Colantonio, **A. Qadri** and E. Sally Ward. 1998. Expression and characterisation of recombinant soluble peptide:I-A complexes associated with murine experimental autoimmune diseases. *J. Immunol*. 160: 5915-5921. ISSN 1550-6606.

Ayub Qadri. 1997. Identification of specific recognition molecules on murine mononuclear phagocytes and B lymphocytes for Vi capsular polysaccharide: modulation of MHC class II expression on stimulation with the polysaccharide. *IMMUNOLOGY* 92: 146-152. ISSN 1365-2567.

E. Sally Ward and **Ayub Qadri**. 1997. Biophysical and structural studies of TCRs and ligands: implications for T cell signaling. *Current Opinion in Immunology* 9: 97-106. ISSN 0952-7915.

Ashok, B. T., J. Ahmad, **A. Qadri** and R. Ali. 1997. Anti-Ros monoclonal antibody as molecular probe for oxidative DNA damage. *Biochemistry and Molecular Biology International*. 43: 1219-1229. ISSN 1039-9712.

Jha, P.K., **A. Qadri** and S.E.Hasnain 1993. A monoclonal antibody against firefly luciferase enzyme. *Indian J. Exp. Biology* 31:106. ISSN 0019-5189.

Talwar, G.P., K.Banerjee, P.P.Reddi, M.Sharma, **A. Qadri** et al., 1992. Diagnostics for tropical countries. *J. Immunol. Methods* 150:121. ISSN 0022-1759.

Qadri, A., S. Ghosh and G. P. Talwar. 1990. Monoclonal antibodies against two discrete determinants on Vi capsular polysaccharide. *J. Immunoassay* 11: 235-250. ISSN 1532-4230.

Qadri, A., S. Ghosh, K. S. Prakash, R. Kumar, K. D. Moudgil and G. P. Talwar. 1990. Sandwich enzyme immunoassays for detection of *Salmonella typhi*. *J. Immunoassay* 11:251-269. ISSN 1532-4230.

Qadri, A., S. Ghosh, S. N. Upadhyay and G. P. Talwar. 1989. Monoclonal antibodies against flagellar antigen of *Salmonella typhi*. *Hybridoma* 8:353-359. ISSN 0272-457X.

Qadri, A., S. K. Gupta, P. A. Cazenave and G. P. Talwar 1988. Effect of in vivo treatment with an anti-idiotypic on the immune response to human chorionic gonadotropin. *Ann. Immunol. (Inst. Pasteur)* 139:701-708. ISSN 0769-2625.

Qadri, A., S. K. Gupta and G. P. Talwar 1988. Monoclonal antibodies delineate multiple epitopes on the O antigens of *Salmonella typhi* lipopolysaccharide. *J. Clin. Microbiol.* 26:2292-2296. ISSN 1098-660X.

K. D. Moudgil, **A. Qadri** and S. K. Gupta 1986. Mouse myeloma (SP2/O-Ag1.4) culture supernatant as a substitute for feeder cells in mouse x mouse and rat x rat hybridomas. *Indian J. Exp. Biology* 24:578-580. ISSN 0019-5189.

BOOK CHAPTERS:

Qadri, A. 1991. Typhoid fever: current status on vaccine and diagnosis in “Immunology: Perspectives in Reproduction and Infection”. S. K. Gupta (ed.), Oxford and IBH Publishing Company Pvt. Ltd. New Delhi, p361.

Srikanth KS, Sharma N, Garg R, **Qadri A** (2008). Immunological techniques and their applications. NSDL, NISCAIR.

PROFESSIONAL RESPONSIBILITIES

Scientist in-charge, Hybridoma Laboratory, National Institute of Immunology, New Delhi (2002 to 2020)

Served as a member of the Task Force on Basic Research in Modern Biology, Department of Biotechnology, Govt. of India

Served as a member of the Task Force on Health Sciences, SERB-Department of Science and Technology, Govt. of India

Served as a member of the Board of Studies, Department of Biochemistry, Jamia Hamdard University, New Delhi

Served as Member Secretary, Institute Animal Ethics Committee, National Institute of Immunology

Served as a DBT nominee, Institute Biosafety Committee, National Brain Research Institute, Manesar, Haryana

Member, Task Force on Infectious Disease Biology, Department of Biotechnology, Govt. of India

Member Task Force, DST-SERB, SUPRA

DBT nominee, Institute Biosafety Committee, Sun Pharma Pharmaceutical Company

DBT nominee, Institute Biosafety Committee, National Institute of Pathology, New Delhi

Member, Institutional Ethics Committee, Sheri Kashmir Institute Medical College, Bemina, Srinagar, Kashmir