

Curriculum Vitae

Last name, First name: Epstein, Michelle

Gender: F

Nationality/ies: Canadian (Resident of Austria)

Overall Scientific Expertise:

I am a medical doctor and research scientist with a specialty in Internal medicine and allergy and clinical immunology. My work is with mouse models of immune and allergic disease aimed at validation of for pre-clinical assessment and for mechanistic studies and as a replacement for non-human primate testing. I have a broad background in clinical internal medicine, biochemistry, organic chemistry, immunology and basic research. I completed one term as a member of SCENIHR (2013-2016) and was the rapporteur of the SCENIHR working group on 'Synthetic Biology'. I am currently on the ESFA working group on the 'Development of supplementary guidelines for the allergenicity assessment of GM plants'. The activities in DG Santé committees and working groups have improved my knowledge and skills involved with risk assessment.

Professional Experience

Years employed from – to	Title of position	Employer – name and location	Areas of professional specialisation [^]
1997-current	Principal investigator	Medical University of Vienna, Department of Dermatology, Division of Immunology, Allergy and Infectious diseases, Experimental Allergy Laboratory, Vienna, Austria	Immunology, allergy, use of mouse models for immunology and immunotoxicology, preclinical assessment of novel compounds and materials for therapeutic use
1994-1997	Fogarty International Visiting Associate	National Institutes of Health, National Institute of Allergy and Infectious Diseases, Laboratory of Cellular and Molecular Biology, Dr. P. Matzinger. Bethesda, USA	Cellular immunology, Mouse models
1990-1994	Research and Clinical Fellow	Yale University School of Medicine, Department of Immunobiology, Howard Hughes Medical Institute, Allergy and Immunology, Dr. K. Bottomly, New Haven, USA	Cellular immunology, Mouse models
1989-1994	Fellow Allergy and Clinical Immunology	Yale University School of Medicine, New Haven, USA	Clinical Allergy and Immunology
1986-1989	Internal Medicine resident	Internal medicine resident, University of British Columbia, Vancouver, Canada	Internal Medicine
1985-1986	Rotating Internship	St. Paul's Hospital, Vancouver, Canada	Internal Medicine, Surgery, Obstetrics, Psychiatry, Pediatrics

Educational Background

Year	Degree awarded	Educational Institution – name and location	Areas of educational specialisation*
1985	MD	The University of Alberta Medical School, Edmonton, Canada	
1981	-	The University of Alberta, Edmonton, Canada Ph.D. studies	Chemistry (organic)

1980	Bachelor of Science	McGill University, Montreal, Canada	Biochemistry
See above for post doc internship, residency and fellowships			

Memberships in Scientific Advisory Bodies/Committees/Panels:

2013-2016 Member of the Scientific Committee on Emerging and Newly Identified Health Risks (SCENIHR), set up by Commission Decision 2008/721/EC

2014- Member of the working group on GMO Development of supplementary guidelines for the allergenicity assessment of GM plants (<https://ess.efsa.europa.eu/doi/doiweb/wg/680890>)2013)

Memberships in Learned Societies:

Austrian Society of Allergy and Immunology

American Association of Immunologists

European Academy of Allergy and Clinical Immunology (EAACI)

Memberships in Editorial Boards:

Advisory Editorial Board, Drug Discovery Today Disease Models (Elsevier)

List of Publications (selected):

- Lake, I.R., et al. Climate change and ragweed pollen allergy in Europe. *Environment Health Perspectives Environ Health Perspect*; 2016. doi:10.1289/EHP173.
- Marsteller, N., et al. A Review of animal models used to evaluate potential allergenicity of genetically modified organisms (GMOs) *Drug Discovery Today: Disease Models* 2016. <http://dx.doi.org/10.1016/j.ddmod.2016.11.001>
- Riba, M., et al. 2016. Revealing the acute asthma ignorome: characterization and validation of uninvestigated gene networks. *Scientific reports* 6:24647.
- Laguel, L.H., et al. 2015. Seed dispersal versus climate change controls of future airborne ragweed pollen in Europe. *Nature Climate*: doi: 10.1038/NCLIMATE2652
- Schliehe, C., et al. 2014. The methyltransferase Setdb2 mediates virus-induced susceptibility to bacterial superinfection. *Nat Immunol*. doi: 10.1038/ni.3046.
- Bosnjak, B., et al. Tiotropium bromide inhibits relapsing allergic asthma in BALB/c mice. *Pulm Pharmacol Ther*. 2013 pii: S1094-5539(13)00173-9. doi: 10.1016/j.pupt.2013.09.004.
- Biffi, S., et al. Dendritic Polyglycerolsulfate Near Infrared Fluorescent (NIRF) Dye Conjugate for Non-Invasively Monitoring of Inflammation in an Allergic Asthma Mouse Model. 2013. *PLoS ONE* 8(2): e57150.
- Lee, R.Y., et al. Genetically Modified α -Amylase Inhibitor Peas Are Not Specifically Allergenic in Mice. *PLoS ONE*, 2013; 8 (1): e52972 doi:10.1371/journal.pone.0052972.
- Knapp, B., et al. A comparative approach linking molecular dynamics of altered peptide ligands and MHC with *in vivo* immune responses. 2010:*PLoS One* 5:e11653.
- Matthews, K., et al. Long-term deposition of inhaled antigen in lung resident CD11b⁻CD11c⁺ cells *Am. J. Respir. Cell and Mol. Biol.* 2007; 36:435-441.
- Ettmayer, P., et al. Modulating the function of dendritic cells and IgE class switching by B-cells: Dual mode of action of a novel low molecular weight compound *Am. J. Respir. Crit. Care Med.* 2006;173: 599-606.
- Jungsuwadee P., et al. Inhaled dexamethasone differentially attenuates disease relapse and established allergic asthma in mice *Clin. Immunol* 2004;110:101-108.
- Mojtabavi N., et al. Long-lived Th2 memory in experimental allergic asthma *J. Immunol.* 2002;169:4788-4796.
- Epstein, M.M., D et al. Successful T cell priming in B cell deficient mice. *J Exp Med* 1995;182:915-22.
- Epstein, M.M., et al. Inhibition of metabolism of paracetamol by isoniazid. *Brit J Clin Pharmacol* 1991;31:139-142.