

Sandeep Mehta

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EDUCATION

- 2001–2007 **PhD Immunology**, Department of Immunology, University of Toronto
Thesis: Recombinant anti-class II MHC antibodies containing conformationally constrained, immunogenic HIV-1 B cell epitopes
Supervisor: Dr. F.W. Modeato
- 1997–2001 **Honours Bachelor of Science, Biology**
McMaster University, Hamilton, Ontario

HONOURS and AWARDS

- 2006 Rick Miller Award for Leadership in Immunology
2005–06 Ontario Graduate Scholarship
2001–2004 Medical Research Council Fellowship
2001 National Science and Engineering Research Council Fellowship

RESEARCH EXPERIENCE

- 2004–07 Graduate Student, Department of Immunology, University of Toronto
• Completed doctoral research in the area of HIV vaccine development.
• Developed expertise in molecular biology, genetics, virology, and immunology.
- 2006–07 Science Writer, Cangen Research Institute, Toronto
• Worked with Dr. Pak Ling on an introductory immunology textbook for undergraduates and medical students.
• Wrote a variety of other smaller projects for the Cangen Research Institute
- 2000–2001 **Undergraduate Research**, Department of Biology, University of Toronto
• Organized laboratory experiments for Dr. Chiu Yue
• Ran agarose gel electrophoresis
• Performed restriction digests and ligation reactions
• Transformed E. coli

RESEARCH INTERESTS

- Antibody structure/function. Regulation of antibody responses by

- synthetic epitopes. Antibody engineering. Monoclonal antibodies. Vaccine development.
- Recombinant antibodies containing an engineered B cell epitope capable of eliciting conformation = specific antibody responses.

TEACHING EXPERIENCE

- 2005–07 **Teaching Assistant**, University of Toronto
- Introduction to Immunology under the supervision of Dr. Pak Ling
- Performed all regular duties of a T.A. for a class size of 75 including occasional lectures, office hours, and marking (course code: IMM334).

TEACHING INTERESTS

- Graduate-level courses in virology and immunology
- Undergraduate-level molecular biology and genetics

PUBLICATIONS

Mehta, Sandeep, and Cutler, B. H. (2004). Recombinant anti-class II MHC antibodies containing conformationally constrained, immunogenic HIV-1 B cell epitopes. *AIDS and Human Retroviruses*, 13, 449–459.

Mehta, Sandeep, and Cutler, B. H. (2005). Recombinant antibodies containing an engineered B cell epitope capable of eliciting conformation = specific antibody responses. *Vaccine*, 13, 1770–1778.

NON-REFEERED PUBLICATION

Mehta, S. (2006, 29 June). Overload in the laboratory: How much science is too much science? *Global Review*, 33–47.

ADMINISTRATIVE EXPERIENCE

- 2005–07 **Treasurer**, Graduate Students' Union, University of Toronto
- Developed and prepared budgets, and monitored expenditures to ensure the financial health of the association.
 - Served on a number of ad hoc committees, such as the Graduate Studies Policies Handbook Committee, to enhance the student experience at the University of Toronto.
- 2005–06 **Member**, Search Committee, Department of Immunology, University of Toronto
- Part of a committee that selected, interviewed, and hired an associate professor at the Department of Immunology.

ADDITIONAL TRAINING

2005 Facilitative Leadership course, Schulich School of Business

REFERENCES

- Prof. Andrea Booterskaya, Institute of Medical Sciences, University of Toronto, 416-938-3344 (thesis committee member)
- Dr. F. W. Modeato, University of Toronto, department of immunology, 416-936-3321 (thesis supervisor)
- Dr. Chiu Yue, Department of Biology, University of Toronto, 416-978-2121 (undergraduate supervisor)

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