

Tong-Jun Lin, PhD

IWK Health Centre/Dalhousie University
Departments of Microbiology & Immunology and Pediatrics
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Employment:

- 1990 - 1993 Assistant Professor, Institute of Materia Medica, Chinese Academy of Medical Sciences, Beijing, China
- 2000 -2005 Assistant Professor (tenure track), Department of Microbiology and Immunology, Department of Pediatrics, Dalhousie University, Halifax, NS, Canada.
- 2005 - 2009 Associate Professor (tenured), Department of Microbiology and Immunology, Department of Pediatrics, Dalhousie University, Halifax, NS, Canada
- 2009 - Professor (tenured), Department of Microbiology and Immunology, Department of Pediatrics, IWK Health Center, Dalhousie University, Halifax, NS, Canada

Academic Records:

- 1979 – 1984 Bsc of Medicine. First Military Medical University in Guangzhou, China
- 1984 – 1987 MSc of Pharmacology, First Military Medical University in Guangzhou, Guangdong, China.
- 1987 – 1990 PhD of Pharmacology, Chinese Academy of Medical Science. Beijing, China.
- 1993 – 1997 Post-doctoral fellow. University of Alberta. Edmonton, AB, Canada
- 1997 – 1998 Post-doctoral fellow. Duke University. Durham, NC, US.
- 1999 – 2000 Post-doctoral fellow. Dalhousie University. Halifax, NS, Canada.

AWARDS AND DISTINCTIONS (selected)

- 2000 Investigatorship awarded by IWK Grace Health Centre, Halifax NS, Canada. (A 8-years award, Jul 1, 2000 – Jun 31, 2008).
- 2002 New Opportunity Researcher. Awarded by Canadian Foundation for Innovation.
- 2003 Junior Faculty Travel Award for 90th AAI Annual Conference (Denver, CO). Awarded by American Association of Immunologists. May 2003.
- 2003 New Investigator Award (A 5-years salary award, Jul 2003 – Jun 2008). Awarded by Canadian Institutes of Health Research.
- 2004 Award of Excellence in Medical Research (Basic Science). Awarded by the Dalhousie Medical Research Foundation, Dalhousie University, NS, Canada (May 5th, 2004).
- 2004 Young Investigator Award. Awarded by the 2004 CHEST Foundation, American College of Chest Physicians at the 70th Annual International Scientific Assembly on October 23-28, 2004, Seattle, Washington.
- 2007 CSI New Investigator Award. Awarded by the Canadian Society of Immunology (CSI). (CSI presents one award in this category each year at its annual meeting). March 15-18, 2007. Lake Louis, AB, Canada.

PUBLICATIONS (since 1996)

Peer Reviewed

69. Junkins RD, SO Carrigan, Z Wu, AW Stadnyk, E Cowley, T Issekutz, J Berman, and **T.J Lin**. Mast cells protect against *Pseudomonas aeruginosa* induced lung injury.

- Am. J. Pathol. (in press) (Impact Factor 5.5).
68. Wu ZL, X Chen, F Liu, W Chen, P Wu, AJ Wieschhaus, AH Chishti, PA Roche, WM Chen and **T.J. Lin**.
Calpain contributes to IgE-mediated mast cell activation.
J Immunol. 2014 (in press). (Impact Factor 5.8)
 67. MacNeil AJ, R Junkins, Z Wu and **T.J. Lin**.
Stem cell factor induces AP-1-dependent mast cell IL-6 production via MAPK kinase 3 activity.
J. Leukoc. Biol. 2014 (Accepted). Epub-22-Jan-2014. (Impact Factor 4.7).
 66. Junkins RD., C. McCormick, **T.J. Lin**.
The emerging potential of autophagy based therapies in the treatment of cystic fibrosis lung infections.
Autophagy 2014 March; 10(3):1-10. E-pub. 13-Jan-2014. (Impact Factor 12.0)
 65. MacNeil AJ, SC Jiao, LA McEachern, YJ Yang, A Dennis, H Yu, Z Xu, JS Marshall and **T.J. Lin**.
MAPK kinase 3 is a tumor suppressor with reduced copy number in breast cancer.
Cancer Research 2014, Jan 1; 74(1):1-11. Epub-14-Nov-2013. (Impact Factor 8.6)
 64. Wu ZL, Y Li, AJ MacNeil, RD. Junkins, J Berman and **T.J. Lin**.
Calcineurin-Rcan1 interaction contributes to stem cell factor-mediated mast cell activation.
J. Immunol. 2013, Dec 15; 191(12):5885-5894. Epub-11-Nov-2013. (Impact Factor 5.8)
 63. Junkins R.D, A Shen, K Rosen, C McCormick and **T.J. Lin**.
Autophagy enhances bacterial clearance during *P. aeruginosa* lung infection.
PLoS ONE. 2013, 8(8): e72263. doi:10.1371/journal.pone.0072263. Epub-28-Aug- 2013. (Impact Factor 4.5).
 62. Junkins R.D, A.J. MacNeil, Z.L. Wu, C. McCormick and **T.J. Lin**.
Regulator of calcineurin 1 suppresses inflammation during respiratory tract infections.
J. Immunol. 2013, May 15; 190(10):5178-5186. Epub-15-Apr-2013 (Impact Factor 5.8)
 61. Wu Z.L., A.J. MacNeil, B. Li, J.N. Berman and **T.J. Lin**.
Mast cell FcεRI-induced early growth-response 2 regulates CCL1-dependent CD4+ T cell migration.
J. Immunol. 2013 May 1; 190(9):4500-4507. Epub-27-Mar- 2013. (Impact Factor 5.8)
 60. Wu Z.L., A.J. MacNeil, J.N. Berman and **T.J. Lin**.
Syntaxin binding protein 1 is not required for allergic inflammation via IgE-mediated mast cell activation.
PLoS ONE. 2013, 8(3): e58560. doi:10.1371/journal.pone.0058560 Epub-6-Mar- 2013. (Impact Factor 4.5).
 59. McIsaac SM, AW Stadnyk and **T.J. Lin**.

- Toll-like receptors in the host defense against *Pseudomonas aeruginosa* respiratory infection and cystic fibrosis.
J. Leukoc Biol. 2012 Nov; 92(5):977-985. E-pub. 14-Aug-2012. (Impact Factor 4.7).
58. MacNeil A.J., Y.J. Yang, and **T.J. Lin**.
MAPK Kinase 3 specifically regulates FcεRI-mediated IL-4 production by mast cells.
J. Immunol. 2011 Sep; 187:3374-3382. Epub-12-Aug- 2011. (Impact Factor 5.8)
57. Yang Y.J., A.J. MacNeil, R. Junkins, S.O. Carrigan, J-T. Tang, N. Forward, D. Hoskin, J.N. Berman and **T.J. Lin**.
Regulator of calcineruin 1 (Rcan1) is required for the development of pulmonary eosinophilia in allergic inflammation in mice.
Am. J. Pathol. 2011 Sep;79:1199-1210. Epub-7-July-2011. (Impact Factor 5.5).
56. Forward N.A., DM Conrad, M.R. Power Coombs, C.D. Doucette, S.J. Furlong, **T.J. Lin**, and D.W. Hoskin.
Curcumin blocks interleukin (IL)-2 signaling in T-lymphocytes by inhibiting IL-2 synthesis, CD25 expression, and IL-2 receptor signaling.
Biochem. Biophys. Res. Commun. 2011; 407:801-806. (Impact Factor 2.5)
55. Da'as S., E.M. Teh, J.T. Dobson, D.S. Neuberger, J.S. Marshall, **T.J. Lin** and J.N. Berman.
Zebrafish mast cells possess an FcεRI-like receptor and participate in innate and adaptive immune responses.
Dev. Comp. Immunol. 2011 Jan; 35:125-134. Epub-19-Sep-2010 (Impact Factor 3.4)
54. Carrigan S., R. Junkins, Y.J. Yang, A. MacNeil, C. Richardson, B. Johnston and **T.J. Lin**.
IFN regulatory factor 3 contributes to the host response during *Pseudomonas aeruginosa* lung infection in mice.
J. Immunol. 2010 Sep; 185(6):3602-3609. Epub 18-Aug-2010 (Impact Factor 5.8)
53. Forward N.A., S.J. Furlong, Y.J. Yang, **T.J. Lin**, and D.W. Hoskin.
Signaling through TLR7 enhances the immunosuppressive activity of murine CD4⁺CD25⁺ T regulatory cells.
J. Leukoc. Biol. 2010 Jan; 87:117-125. Epub 20-Oct-2009. (Impact Factor 4.7)
52. Forward N.A., S.J. Furlong, Y.J. Yang, **T.J. Lin** and D.W. Hoskin.
Mast cells down-regulate CD4⁺ CD25⁺ T regulatory cell suppressor function via histamine-H1 receptor interaction.
J. Immunol. 2009 Sept; 183:3014-3022. Epub 10-Aug-2009. (Impact Factor 5.8)
51. Yang Y.J., W. Chen, A. Edgar, B. Li, J.D. Molkenin, J.N. Berman, and **T.J. Lin**.
Rcan1 negatively regulates FcεRI-mediated signalling and mast cell function.
J. Exp. Med. 2009 Jan; 206:195-207. Epub 5-Jan-2009. (Impact Factor 14.7)
50. Zheng YY, W. Zhang, C.Y. Geng **T.J. Lin**, X.W. Wang, L.Y. Zhao, J.T. Tang.

- Thermal ablation versus conventional regional hyperthermia has greater anti-tumor activity against melanoma in mice by upregulating CD4⁺ cells and enhancing IL-2 secretion. Progress in Natural Science. 2009 Dec.; 19(12):1699-1704. (Impact Factor 0.8)
49. Carrigan S.O., Y.J. Yang, T. Issekutz, N. Forward, D. Hoskin, B. Johnston, and **T.J. Lin**. Depletion of CD4⁺CD25⁺ T regulatory cells with anti-CD25 antibody does not change the course of *Pseudomonas aeruginosa*-induced acute lung infection in mice. Immunobiology 2009 Mar; 214:211-222. Epub 18-Sep-2008. (Impact Factor 3.6).
 48. Yang Y.J., W. Chen, S.O. Carrigan, W.M. Chen, K. Roth, T. Akiyama, J. Inoue, J. Marshall, J. Berman, and **T.J. Lin**. TRAF6 specifically contributes to FcεRI-mediated cytokine production but not mast cell degranulation. J. Biol. Chem. 2008 Nov; 283:32110-32118. Epub 4-Sep-2008. (Impact Factor 5.1).
 47. Dobson J.T., J. Seibert, E.M. Teh, S. Daas, R.B. Fraser, B.H. Paw, **T.J. Lin**, and J.N. Berman. Carboxypeptidase A5 identifies a novel mast cell lineage in the zebrafish providing new insight into mast cell fate determination. Blood 2008 Oct; 112:2969-2972. Epub 17-Jul-2008. (Impact Factor 9.8).
 46. Li B, J. Berman, P. Wu, F. Liu, J.T. Tang and **T.J. Lin**. The early growth response factor-1 contributes to interleukin 13 production by mast cells in response to stem cell factor stimulation. J. Immunotoxicol. 2008; Apr; 5(2):163-71. (Impact Factor 1.4)
 45. O'Sullivan R., S.O. Carrigan, J.S. Marshall and **T.J. Lin**. Signal Transducer and Activator of Transcription 4 (STAT4), but not IL-12 contributes to *Pseudomonas aeruginosa*-induced lung inflammation in mice. Immunobiology 2008 Jul; 213(6):469-79. Epub 2-Jan-2008. (Impact Factor 3.6).
 44. Comeau J.L., **T.J. Lin**, M.B. Macken, B. Li, CL Ku, H. von Bernuth, J-L Casanova and A.C. Issekutz. Staphylococcal pericarditis, and liver and paratracheal abscesses as presentations in two new cases of interleukin-1 receptor associated kinase 4 (IRAK-4) deficiency. Pediatr. Infect. Dis. J. 2008; 27:170-174. Epub 2-Jan-2008. (Impact Factor 3.4).
 43. Roth K., W.M. Chen and **T.J. Lin**. Positive and negative regulatory mechanisms in high affinity IgE receptor-mediated mast cell activation. Arch Immunol Ther Exp (Warsz). 2008 Nov, 56:1-15. (Impact Factor 2.3)
 42. Li B, J. Berman, J.T. Tang and **T.J. Lin**. The early growth response factor-1 is involved in stem cell factor (SCF)-induced interleukin 13 production by mast cells, but is dispensable for SCF-dependent mast cell growth. J. Biol. Chem. 2007; 282:22573-22581. Epub 7-Jun-2007. (Impact Factor 5.1).

41. Chan K, M. Mayer, E.M. Davis, S.A. Halperin, **T.J. Lin** and S. Lee.
The role of D-alanylation of *Streptococcus gordonii* lipoteichoic acid in innate and adaptive immunity.
Infect. Immun. 2007; 75:3033. Epub 9-Apr-2007. (Impact Factor 4.1).
40. Power M.R, M. Yamamoto, S. Akira, and **T.J. Lin**.
A Role of Toll-IL-1 receptor domain-containing adapter-inducing IFN- β in the host response to *Pseudomonas aeruginosa* lung infection in mice.
J. Immunol. 2007; 178:3170-3176. (Impact Factor 5.8)
39. Jenkins C.E., A. Swiatoniowski, M.R. Power and **T.J. Lin**.
Pseudomonas aeruginosa induced human mast cell apoptosis is associated with up-regulation of endogenous Bcl-x_S and down-regulation of Bcl-x_L.
J. Immunol. 2006; 177:8000-8007. (Impact Factor 5.8)
38. Power M.R, J.S. Marshall, M. Yamamoto, S. Akira, and **T.J. Lin**. The myeloid differentiation factor 88-independent pathway is sufficient for the development of delayed host response to *Pseudomonas aeruginosa* lung infection in mice.
Clin. Exp. Immunol. 2006; 146:323-329. (Impact Factor 3.1)
37. Li B., M.R. Power and **T.J. Lin**.
De novo synthesis of early growth response factor-1 is required for the full responsiveness of mast cells to produce TNF and IL-13 by IgE and antigen stimulation.
Blood 2006; 107:2814-2820. Epub 29-Nov-2005. (Impact Factor 9.8)
36. Sun G., F. Liu and **T.J. Lin**.
Identification of *Pseudomonas aeruginosa*-induced genes in human mast cells using suppression subtractive hybridization: Up-regulation of IL-8 and CCL4 production.
Clin. Exp. Immunol. 2005; 142:199-205. Epub 12-Aug-2005. (Impact Factor 3.1)
35. Peng Y., M. R. Power, B. Li and **T.J. Lin**.
Inhibition of IKK down-regulates antigen + IgE-induced TNF production by mast cells: A role for IKK-I κ B-NF- κ B pathway in IgE-dependent mast cell activation.
J. Leukoc. Biol. 2005; 77:975-983. Epub 22-Mar-2005. (Impact Factor 4.7)
34. Kralovec J.A., M.R. Power, F. Liu, E. Maydanski, S.H. Ewart, L.V. Watson, C.J. Barrow and **T.J. Lin**.
An aqueous Chlorella extract inhibits IL-5 production by mast cells *in vitro* and reduces ovalbumin-induced eosinophil infiltration in the airway in mice *in vivo*.
Int. Immunopharmacol. 2005; 5:689-698. (Impact Factor 2.5)
33. Power M.R, Y. Peng, E. Maydanski, J.S. Marshall, and **T.J. Lin**.
The development of early host response to *Pseudomonas aeruginosa* lung infection is critically dependent on myeloid differentiation factor 88 in mice.
J. Biol. Chem. 2004; 279:49315-49322. (Addition and Correction in: J. Biol. Chem. 2005; 280:2395-6). (Impact Factor 5.1)

32. Boudreau R., D.W. Hoskin, and **T.J. Lin**.
Phosphatase inhibition potentiates IL-6 production by mast cells in response to FcεRI-mediated activation: Involvement of p38 MAPK.
J. Leukoc. Biol. 2004; 76:1075-1081. (Impact Factor 4.7)
31. Jenkins E.C., A. Swiatoniowski, A.C. Issekutz and **T.J. Lin**.
Pseudomonas aeruginosa exotoxin A induces human mast cell apoptosis by a caspase-8 and -3-dependent mechanism.
J. Biol. Chem. 2004; 279:37201-37207. (Impact Factor 5.1)
30. **Lin T.J.**, L.H. Maher, K. Gomi, J. McCurdy, R. Garduno, and J.S. Marshall.
Selective early production of CCL20, or macrophage inflammatory protein 3α, by human mast cells in response to *Pseudomonas aeruginosa*.
Infect. Immun. 2003; 71:365-373. (Impact Factor 4.1)
29. **Lin T.J.**, R. Garduno, R. Boudreau, and A.C. Issekutz.
Pseudomonas aeruginosa activates human mast cells to induce neutrophil transendothelial migration via mast cell-derived interleukin 1α and β.
J. Immunol. 2002; 169:4522-4530. (Impact Factor 5.8)
28. Boudreau R, R. Garduno, and **T.J. Lin**.
Protein phosphatase 2A and protein kinase Cα are physically associated and are involved in *Pseudomonas aeruginosa*-induced interleukin 6 production by mast cells.
J. Biol. Chem. 2002; 277:5322-5329. (Impact Factor 5.1)
27. McCurdy J., **T.J. Lin**, and J.S. Marshall.
Toll-like receptor 4-mediated activation of murine mast cells.
J. Leukoc. Biol. 2001; 70(6):977-984. (Impact Factor 4.7)
26. **Lin T.J.**, T.B. Issekutz, and J.S. Marshall.
SDF-1 induces IL-8 production and transendothelial migration of human cord blood derived mast cells.
Int. Arch. Allergy Immunol. 2001; 124:142-145. (Impact Factor 2.3)
25. Hirji N., **Lin T.J.** and Befus A.D.
Promiscuous CD8: Expression and function of CD8 on macrophages, mast cells, and dendritic Cells.
Modern Aspects of Immunobiology. 2000, 1(4):140-143.
24. **Lin T.J.**, T.B Issekutz, and J.S. Marshall.
Human mast cells transmigrate through human umbilical vein endothelial monolayers and selectively produce IL-8 in response to stromal cell derived factor-1α.
J. Immunol. 2000; 165:211-220. (Impact Factor 5.8)
23. Dery R.E., **T.J. Lin**, A.D. Befus, C.D. Milne, R. Moqbel, G. Menard, and E.Y. Bissonnette.
Redundancy or cell type specific regulation? Tumour necrosis factor in alveolar macrophages and mast cells.

- Immunology 2000; 99:427-434. (Impact Factor 3.3)
22. **Lin T.J., N. Hirji, G.R Stenton, M. Gilchrist, B.J. Grill, A.D. Schreiber, and A.D. Befus.**
Activation of macrophage CD8: Pharmacological studies of TNF and IL-1 β production.
J. Immunol. 2000; 164:1783-1792. (Impact Factor 5.8)
 21. **Lin T.J., Z. Gao, M. Arock, and S.N. Abraham.**
Internalization of FimH⁺ *Escherichia coli* by human mast cell line, HMC-1 5C6, involves protein kinase C.
J. Leukoc. Biol. 1999; 66:1031-1038. (Impact Factor 4.7)
 20. Hirji NS, **T.J. Lin**, M. Gilchrist, G. Naul, O. Nohara, B.J. Grill, M. Belosevic, G.R. Stenton, A.D. Sdhreiber, and A.D. Befus.
Novel CD8 molecule on macrophages and mast cells: expression, function and signaling.
Int. Arch. Allergy Immunol. 1999; 118:180-182. (Impact Factor 2.3)
 19. **Lin T.J., N. Hirji, O. Nohara, G. Stenton, M. Gilchrist, and A.D. Befus.**
Mast cells express novel CD8 molecules that selectively modulate mediator secretion.
J. Immunol. 1998; 161: 6265-6272. (Impact Factor 5.8)
 18. Calderon GM, T-J. Javier, **T.J. Lin**, B. Chavez, M. Hernandez, O. Munoz, A.D. Befus, and J.A. Enciso.
1998. Effects of toxin A from *Clostridium difficile* on mast cell activation and survival.
Infect. Immun. 1998; 66:2755-2761. (Impact Factor 4.1)
 17. Hirji N., **T.J. Lin**, E.Y. Bissonnette, M. Belosevic and A.D. Befus.
Mechanisms of macrophage stimulation through CD8: macrophage CD8 α and β induce nitric oxide production and associated killing of the parasite *leishmania major*.
J. Immunol. 1998; 160:6004-6011. (Impact Factor 5.8)
 16. **Lin T.J.** and A.D. Befus.
Differential regulation of mast cell function by IL-10 and stem cell factor.
J. Immunol. 1997; 159:4015-4023. (Impact Factor 5.8)
 15. Hirji N., **T.J. Lin** and A.D. Befus.
A novel CD8 molecule expressed by alveolar and peritoneal macrophages stimulates nitric oxide production.
J. Immunol. 1997; 158:1833-1840. (Impact Factor 5.8)
 14. **Lin T.J.,** Enciso J.A., Bissonnette E.Y., Szczepek A. and Befus A.D.
Cytokine and drug modulation of TNF α in mast cells.
Adv. Exp. Med. Biol. 409:279-285, 1996. (Impact Factor 1.3)
 13. **Lin T.J.,** E.Y. Bissonnette, A. Hirsh and A.D. Befus.
Stem cell factor potentiates histamine secretion by multiple mechanisms, but does not affect TNF α release from rat peritoneal mast cells.
Immunology 1996; 89:301-307. (Impact Factor 3.3)

12. **Lin T.J.**, K.J. Zhang, and G.T. Liu.
Effects of salvianolic acid A on oxygen radicals released by rat neutrophils and on neutrophil function.
Biochem. Pharmacol. 1996; 51:1237-1241. (Impact Factor 4.7)

GRADUATE/POST-GRADUATE SUPERVISORY EXPERIENCE

Post-doctoral Fellow Trainees - PRESENT

- Dr. Adam MacNeil. January 2009 – present
Research Project: Molecular mechanisms of MAP kinase pathway activation.
- Dr. Lei Yue. Oct 2013 – present
Research Project: Phosphatase in *Pseudomonas aeruginosa* infection.
- Dr. Ting Yang. Oct 2013 - present
Research Project: Molecular mechanisms of IgE-induced mast cell activation.

Post-doctoral Fellow Trainees - PAST

- Dr. Zhengli Wu. Nov 2009 – Feb 2014
Research Project: Signaling pathways in allergy
- Dr. Elizabeth C Acosta-Ramirez. April 2011- May 2012
Research Project: Targeting HER2 for the treatment of breast cancer
- Dr. Svetlana Carrigan May 2006 – Jun 2012
Research Project: Host defense mechanisms in *Pseudomonas aeruginosa* infection.
- Dr. Yongjun Yang. January 2006 – Dec 2009.
Research Project: TLR- and IgE-dependent signaling mechanisms in inflammation.
Current Position: Professor, Institute of Zoonosis, College of Animal Sciences and Veterinary Medicine, Jilin University, Changchun, China.
- Dr. Evelyn Teh (co-supervised with Dr. Jason Berman). April 2007 – March 2009
Research Project: Characterization of mast cells in Zebra fish.
Current position: Technologist, NRC. Halifax, NS. Canada
- Dr. Bo Li Period: February 2004 – March 2007
Research Project: IgE-dependent signaling mechanisms in mast cells.
Current position: Assistant Professor, Capital Medical University, Beijing, China.
- Dr. Yongde Peng Period: April 2002 – December 2003.
Research Project: Nuclear factor κ B related signaling mechanisms in mast cells.
Current position: Professor, Shanghai Jiaotong University, Shanghai, China.

Graduate Students- PRESENT

- Zheng Pang. MSc. September 1, 2013 –
Research Project: *Pseudomonas aeruginosa*-mediated inflammation.

Graduate Students - PAST

- Robert Junkins. PhD. September 1, 2007 – Apr 2014
Research Project: *Pseudomonas aeruginosa*-mediated immune response.
- Nicholas Forward (cosupervisor) MSc. Sep, 2006 – Sep 2008. Graduated on Sep 2008.
Research Project: Regulation of T-regulatory cell function.
- Kristy Roth. MSc. September 1, 2007 – Aug 2009. Graduated on Sep 2009.
Research Project: IgE-dependent signaling in mast cells.

Melanie Power PhD. September 1, 2002 – Aug 2007. Graduated on Aug 2007.

Research Project: Mechanisms of *P. aeruginosa*-mediated airway inflammation.

Ania Swiatoniowski M.Sc. Sep, 2004 – Mar 2007. Graduated on Mar 2007.

Research Project: Mechanisms of *P. aeruginosa*-mediated apoptosis.

Christopher Jenkins MSc. May 1, 2001 – Sep 2003. Graduated on Sept 2003.

Research Project: *Pseudomonas aeruginosa*-induced mast cell apoptosis.

Robert Boudreau Graduate Student Sept. 2001 – May 2003 (transferred)

Summer Students: I have supervised 12 summer students since 2000.

C. EXPERIENCE IN TRAINING RESEARCH PERSONNEL

Honours/Directed Research Students:

Christopher Jenkins. Oct. 2000-Apr. 2001

Research Project: *P. aeruginosa*-induced mast cell responses.

Ania Swiatoniowski Sept. 2003 – Apr. 2004

Research Project: *P. aeruginosa*-mast cell interactions.

Rory O'Sullivan: Sep 2005 – April 2006

Research Project: *P. aeruginosa*-mediated lung inflammation.

Jaelyn Clements Sep 2005 – April 2006

Research Project: *P. aeruginosa*-mediated lung inflammation.

Rubena Deubry Sep 2005 – April 2006

Research Project: IgE-mediated signaling in mast cells.

Nicholas Forward. Sep 2005 – April 2006

Research Project: Mast cell-T cell interaction.

Rebecca Lewicki Barnes. 2006-March. 2007

Research Project: Reactive oxygen species production by mast cells.

Courtney Bull, Type: Honors student, Period: Sept. 2008-March. 2009.

Research Project: Inhibition of protein tyrosine phosphatase on mast cell activation.

Mandana Kianian, Type: Directed Research Project, Period: Jan. 2009-Aug. 2009.

Research Project: Glycogen synthase kinase in mast cell signaling.

Amanda Dennis: Honors student, Period: Sept. 2011-March. 2012.

Research Project: Calcineurin in IgE-mediated mast cell activation.

SERVED ON THE GRADUATE STUDENT SUPERVISORY COMMITTEES

1. Jeffrey McCurdy, PhD student. Dept of Microbiology and Immunology, Dalhousie University. Sept 1999 – Sept 2003. Graduated with a PhD degree.
2. Timothy Olynych, PhD student. Dept of Pathology, Dalhousie University. Sept 2001 – Aug 2005. Graduated with a PhD degree.
3. Dunia Jawdat, PhD student, Dept of Pathology, Dalhousie University. Sept 2004 – July 2005. Graduated with a PhD degree.
4. Erica Yatz, MSc. Dept of Microbiology and Immunology, Dalhousie University. September 2003 – Sept 2005. Graduated with a MSc degree.
5. Karenn Chan, MSc. Dept of Microbiology and Immunology, Dalhousie University. September 2004 – August 2006. Graduated with a MSc degree.

6. Andrew Joy. MSc. Dept of Physiology and Biophysics, Dalhousie University. September 2005 – Aug 2007. Graduated with a MSc degree.
7. Ahmed El-Karmalawy. MSc. Dept of Pathology, Dalhousie University. Jan 2006–
8. Liang Lin, MSc. Dept of Microbiology and Immunology. Dalhousie University. Sept 2006 –
9. Tristan Dobson, MSc. Dept of Microbiology and Immunology. Dalhousie University. Sept 2006 – 2009.
10. Gen Weir. PhD. MSc. Dept of Microbiology and Immunology. Dalhousie University. Sept 2006 –

FUNDS HELD SINCE 2009

2009 – 2014. Mechanisms and regulation of IgE-dependent mast cell activation. Total: \$831,126 (\$166,225/yr for 5 yrs); Canadian Institutes of Health Research.

2010.10-2015.09 Antiviral-modified paper products – antiviral characterization and functional additives. Total \$28,250/ year. Natural Sciences and Engineering Research Council of Canada. SENTINEL Network Phase 2. (Network Coordinator: R. Pelton)

2011.04 – 2014.03 Mechanisms of the inflammatory response induced by cystic fibrosis-associated *Pseudomonas aeruginosa*. Total: \$240,000 (\$80,000/yr for 3 yrs); Cystic Fibrosis Canada.

2011.04-2012.03. Development of anti-allergic compound – Rupaifen. Total \$49,875. Early Stage Commercialization Fund (ESCF), Innovacorp Inc. Nova Scotia. Canada