

Curriculum Vitae

Nicolas Larmonier, Ph.D., H.D.R.

Research Associate Professor of Pediatrics and Immunobiology
Tumor Immunology Laboratory

Steele Children's Research Center
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Education and Academic Degrees

- 2000 **M.S., Biochemistry, Molecular and Cellular biology**
Faculty of Medicine, University of Burgundy, Dijon, France
- 2004 **Ph.D. in Biochemistry, Molecular and Cellular biology, Cancer immunology**
Faculty of Medicine, University of Burgundy, Dijon, France
- 2008 **Accreditation to Direct Research (HDR)**
University of Burgundy, Dijon, France

Post-Doctoral Training

- 2004-2006 **Post Doctoral Research Associate**
Steele Children's Research Center, Department of Pediatrics, Oncology/Hematology Section
University of Arizona, Tucson, AZ, USA

Academic/Faculty Appointments

- 2006- **Research Assistant Professor**
Steele Children's Research Center, Department of Pediatrics
University of Arizona, Tucson, AZ, USA
- 2007- **Joint-Appointed Faculty Member**
Department of Immunobiology
University of Arizona, Tucson, AZ, USA
- 2007- **Arizona Cancer Center Associate Investigator**
Arizona Cancer Center
University of Arizona, Tucson, AZ, USA
- 2007- **Faculty Member**
BIO5 Research Institute
University of Arizona, Tucson, AZ, USA

2009- **Research Associate Professor**
Pediatrics and Immunobiology
University of Arizona, Tucson, AZ, USA

Honors and Awards

2000-2003 Ph.D. funding, **French Ministry of National Education, Research and Technology** (MENRT granting)
Instructorship funding, **French Ministry of National Education, Research and Technology**

2003-2004 Fourth year Ph.D. funding, **French National League against Cancer**

2006 Two-year Fellowship Award, **Lymphoma Research Foundation** (\$ 105,000)
Declined 4-10-2006 due to funding from the Leukemia and Lymphoma Society

2006-2009 Career Development Fellow Award, **Leukemia and Lymphoma Society** (\$ 150,000)
Grant # 5188-07

2009 Outstanding Honors Faculty Member Award 2008-2009, **The University of Arizona Honors College**

Teaching and Mentoring

◆ Faculty Member in Graduate Programs (Master and Ph.D. level):

2007- **Immunobiology Graduate Program Faculty**
University of Arizona, Tucson, AZ, USA

2008- **Cancer Biology Graduate Interdisciplinary Program Faculty**
University of Arizona, Tucson, AZ, USA

◆ Teaching:

2000-2003 **Lectures in Cellular Biology** (192 hr; 64 hr per year)
Instructorship, Centre d'Initiation à l'Enseignement Supérieur, Ecole Normale Supérieure, Lyon, France
First and second year students in life science (Biology), University of Burgundy, France

2006, 2008 **Immunobiology Course -IMB 562, Tumor Immunology**
«Tolerance and regulatory T lymphocytes» Two, two-hour lectures/year
Immunobiology Graduate Program, University of Arizona, Tucson, AZ, USA

2008 **Immunobiology Course -IMB 560A, Development of the Immune System**
Ten, two-hour lectures
Immunobiology Graduate Program, University of Arizona, Tucson, AZ, USA

2009 **Cancer Biology Course -CBIO 555, Cancer Therapeutics**
«Cancer Immunotherapy» One, One-hour lecture
Cancer Biology Graduate Interdisciplinary Program, University of Arizona, Tucson, AZ, USA

◆ Faculty Advisor:

2007- **Immunobiology -IMB 900, Research or Independent Study**
Immunobiology Graduate Program, University of Arizona, Tucson, AZ, USA

2008 **Molecular and Cellular Biology -MCB 498H, Honors Thesis**
University of Arizona, Tucson, AZ, USA

◆ Graduate Student Ph.D. Committees:

- 2007-2009 Jessica Cantrell, Cancer Biology Graduate Interdisciplinary Program
University of Arizona, Tucson, AZ, USA
- 2008-2009 Maria Ordaz, Immunobiology Graduate Program
University of Arizona, AZ, USA
- 2007- Collin LaCasse, Immunobiology Graduate Program
University of Arizona, Tucson, AZ, USA
- 2008- Sara Bustamante, Cancer Biology Graduate Interdisciplinary Program
University of Arizona, Tucson, AZ, USA

◆ Mentor/Thesis Director:

Graduate level (Ph.D. degree):

- 2007- Collin LaCasse, Immunobiology Graduate Program
University of Arizona, Tucson, AZ, USA
- 2007- Jennifer Fraszczak, Biochemistry, Molecular and Cellular Biology Graduate Program
University of Burgundy, Dijon, France
- 2008- Sara Bustamante, Cancer Biology Graduate Interdisciplinary Program
University of Arizona, Tucson, AZ, USA
- 2008- Malika Trad, Biochemistry, Molecular and Cellular Biology Graduate Program
University of Burgundy, Dijon, France

Undergraduate level:

- 2007-2009 Elaine Situ, Molecular and Cellular Biology Department (Senior Honors Thesis)
University of Arizona, Tucson, AZ, USA

Medical Student:

- 2008-2009 Jason Wright, First Year Medical Student
Medical Student Research Fellowship
University of Arizona, Tucson, AZ, USA
- 06-07/2009 Elaine Situ, First Year Medical Student
Medical Student Research Fellowship
University of Arizona, Tucson, AZ, USA

Visiting students/other training:

- 08-09/2006 Delphine Mérino, Graduate Student
Biochemistry, Cellular and Molecular Biology Graduate Program
Visiting Student (University of Burgundy) at the University of Arizona
- 04-06/2009 Sophie Marin, University Institutes of Technology (IUT) Student
Biochemical and Biological Analysis
IUT Nancy-Brabois

Research Specialists / Technicians:

2008-2009 Tamara Lundeen, MS. Research Specialist, Department of Pediatrics
University of Arizona, Tucson, AZ, USA

2009- Amanda Herrell, Research Technician, Department of Pediatrics
University of Arizona, Tucson, AZ, USA

◆ Co-supervision:

Postdoctoral Research Associates:

2007-2008 Gang Li, Post Doctoral Fellow, Department of Pediatrics
University of Arizona, Tucson, AZ, USA

2007- Nona Janikashvili, Post Doctoral Fellow, Department of Pediatrics
University of Arizona, Tucson, AZ, USA

Graduate level (Ph.D. degree):

2004-2005 Xinchen Chen, Microbiology-Immunology Graduate Program
University of Arizona, Tucson, AZ, USA

2004-2007 Gang Li, Immunobiology Graduate Program
University of Arizona, Tucson, AZ, USA

2005-2009 Jessica Cantrell, Cancer Biology Graduate Interdisciplinary Program
University of Arizona, Tucson, AZ, USA

Research Specialists / Technicians:

2004-2005 Sylvia Thompson, Research Specialist, Department of Pediatrics
University of Arizona, Tucson, AZ, USA

2004-2005 Angela Romanoski, Research Technician, Department of Pediatrics
University of Arizona, Tucson, AZ, USA

2004-2006 Marilyn Marron, Research Specialist Senior, Department of Pediatrics
University of Arizona, Tucson, AZ, USA

2004-2007 Marjan Sepassi, Research Specialist, Department of Pediatrics
University of Arizona, Tucson, AZ, USA

Graduate Level Training (laboratory rotations):

Spring 2008 Marc Teng, Cancer Biology Graduate Interdisciplinary Program
University of Arizona, Tucson, AZ, USA

Spring 2008 Sara Bustamante, Cancer Biology Graduate Interdisciplinary Program
University of Arizona, Tucson, AZ, USA

Spring 2008 Rajalakshmy Ramalingam, Immunobiology Graduate Program
University of Arizona, Tucson, AZ, USA

Undergraduate level :

2008 Amanda Herrell, Microbiology Department (Senior Honors Thesis)
University of Arizona, Tucson, AZ, USA

Membership in professional organizations

2001-2004 Club Francophone des Cellules Dendritiques
2006- American Association for Cancer Research, Active Member

Invited journal review (*ad hoc* reviewer)

2005- Biology of Blood and Marrow Transplantation
2005- Blood
2005- International Journal of Cancer
2005- Leukemia
2006- Cancer Immunology Immunotherapy
2006- Immunobiology
2006- Journal of Leukocyte Biology
2008- Archivum Immunologiae et Therapiae Experimentalis

Other academic/administrative responsibilities

2008- Interviewer, Department of Surgery search committee for Faculty candidates
University of Arizona, Tucson, Arizona, USA
2008- Interviewer, Department of Immunobiology, PhD student candidates
University of Arizona, Tucson, Arizona, USA
2008- Interviewer, College of Medicine, Medical Student Admission
University of Arizona, Tucson, Arizona, USA
2008- Faculty Advisor, The University of Arizona March of Dimes Collegiate Council
University of Arizona, Tucson, Arizona, USA

Human Subject Research Approvals by Institutional Review Board (IRB)

Evaluation of T regulatory cell number and function in CML patients treated with tyrosine kinase inhibitors (imatinib, dasatinib, sunitinib). Role: co-principal investigator

Collaborative Institutional Training Initiative (CITI) for Biomedical Research Investigators. (ref# 876805, 02/05/2007)

Patents

Immunovative Therapy Ltd / University of Arizona. "Vaccine Composition and Methods"
Authors/Inventors: Michael Har-Noy, Emmanuel Katsanis and Nicolas Larmonier
Patent filled: May 2008. Number: UA08-097

◆ Peer reviewed articles

- 1) T.P. Twaroski, M.L. O' Brien, **N. Larmonier**, H.P. Glauert, and L.W. Robertson. Polychlorinated biphenyl (PCB)-induced effects on metabolic enzymes, AP-1 binding, vitamin E and oxidative stress in the rat liver. **Toxicology and Applied Pharmacology**. 171: 85-93. 2001.
- 2) S. Gurbuxani, J.M. Bruey, A. Fromentin, **N. Larmonier**, A. Parcellier, M. Jaattela, F. Martin, E. Solary, and C. Garrido. Selective depletion of inducible HSP70 enhances immunogenicity of rat colon cancer cells. **Oncogene**. 20: 7478-7485. 2001.
- 3) B. Bonnotte, **N. Larmonier**, N. Favre, A. Fromentin, M. Moutet, M. Martin, S. Gurbuxani, E. Solary, B. Chauffert, and F. Martin. Tumor-infiltrating macrophages are the ultimate killers of tumor cells upon immunization. **The Journal of Immunology**. 167: 5077-5083. 2001.
- 4) **N. Larmonier**, C. Billerey, C. Rébé, A. Parcellier, M. Moutet, A. Fromentin, G. Kroemer, C. Garrido, E Solary, F. Martin and B. Bonnotte. An atypical caspase-independent death pathway for an immunogenic cancer cell line. **Oncogene**. 21: 6091-6100. 2002.
- 5) J.G. Fischer, H.G. Glauert, T.Yin, M.I. Sweeney-Reeves, **N. Larmonier**, and M.C. Black. Moderate iron overload enhances lipid peroxidation in livers of rats, but does not affect NF-kappaB activation induced by the peroxisome proliferator, Wy 14,643. **The Journal of Nutrition**. 9: 2525-2531. 2002.
- 6) **N. Larmonier***, F. Ghiringhelli*, C.B. Larmonier, M. Moutet, A. Fromentin, E. Baulot, E. Solary, B. Bonnotte, and F. Martin. Freshly isolated bone marrow cells induce death of various carcinoma cell lines. **International Journal of Cancer**. 107: 747-756. 2003.
- 7) C.B. Larmonier*, L. Arnould*, **N. Larmonier**, S. Baumann , M. Moutet, V. Saint-Giorgio, A. Pance, and J.F. Jeannin. Kinetics of tumor cell apoptosis and immune cell activation during the regression of tumors induced by OM-174 in a rat model of colon cancer. **International Journal of Molecular Medicine**. 13: 355-361. 2004.
- 8) **N. Larmonier***, F. Ghiringhelli*, E. Schmitt, A. Parcellier, D. Cathelin, C. Garrido, B. Chauffert, E. Solary, B. Bonnotte, and F. Martin. CD4⁺CD25⁺ regulatory T cells suppress tumor immunity but are sensitive to cyclophosphamide that allows immunotherapy of established tumors to be curative. **European Journal of Immunology**. 34: 336-344. 2004.
- 9) B. Bonnotte, M. Crittenden, **N. Larmonier**, M. Gough, and R.G. Vile. Macrophage inflammatory protein 3 α transfection into tumor cells increases the intratumor dendritic cells infiltration but facilitates tumor growth. **The Journal of Immunology**. 173: 4929-4935. 2004.
- 10) X. Chen, Y. Zeng, G. Li, **N. Larmonier**, M.W. Graner, and E. Katsanis. Peri-transplant vaccination with chaperone rich cell lysate (CRCL) induces anti-leukemia immunity. **Biology of Blood and Marrow Transplantation**. 12: 275-283. 2006.
- 11) Y. Zeng, X. Chen, **N. Larmonier**, C. Larmonier, G. Li, M. Sepassi, M. Marron, S. Andreansky, and E. Katsanis. Chaperone Rich Cell Lysate activates natural killer cell function. **International Journal of Cancer**. 119: 2624-2631. 2006.
- 12) **N. Larmonier**, D. Mérino, A. Nicolas, D. Cathelin, A. Besson, A. Bateman, E. Solary, F. Martin, E. Katsanis, and B. Bonnotte. Apoptotic, necrotic or fused tumor cells: An equivalent source of antigen for dendritic cell loading. **Apoptosis**. 11: 1513-1524. 2006.
- 13) **N. Larmonier**, M. Marron, Y. Zeng, J. Cantrell, A. Romanoski, M. Sepassi, S. Thompson, X. Chen, S. Andreansky, and E. Katsanis. Tumor-derived CD4⁺CD25⁺ regulatory T cells suppression of dendritic cell function involves TGF- β and IL-10. **Cancer Immunology and Immunotherapy**. 56: 48-59. 2007 (published online April 13, 2006).

- 14) X. Chen, B. Zhou, M. Li, Q. Deng, C. Wu, X. Le, **N. Larmonier**, W. Zhang, H. Zhang, H. Wang, and E. Katsanis. CD4⁺CD25⁺FoxP3⁺ regulatory T cells suppress *Mycobacterium tuberculosis* immunity in patients with active disease. **Clinical Immunology**, 123: 50-59. 2007.
- 15) G. Li, Y. Zeng, X. Chen, **N. Larmonier**, M. Sepassi, M. Marron, M.W. Graner, S. Andreansky, M.A. Brewer and E. Katsanis. Human ovarian tumor-derived chaperone-rich cell lysate (CRCL) elicits T cell responses in vitro. **Clinical and Experimental Immunology**, 148: 136-145. 2007.
- 16) **N. Larmonier**, D. Cathelin, C. Larmonier, A. Nicolas, D. Merino, N. Janikashvili, S. Audia, A. Bateman, J. Thompson, T. Kottke, T. Hartung, E. Katsanis, R. Vile, and B. Bonnotte. The inhibition of TNF- α anti-tumoral properties by blocking antibodies promotes tumor growth in a rat model. **Experimental Cell Research**, 313: 2345-2355. 2007.
- 17) A. Nicolas*, D. Cathelin*, **N. Larmonier**, J. Fraszczak, P.E. Puig, A. Bouchot, A. Bateman, E. Solary, and B. Bonnotte. Dendritic cells trigger tumor cell death by a nitric oxide -dependent mechanism. **The Journal of Immunology**, 179: 812-818. 2007.
- 18) S. Audia*, A. Nicolas*, D. Cathelin, **N. Larmonier**, C. Ferrand, P. Foucher, A.L. Fanton, P. Camus, E. Bergouin, M. Maynadie, L. Arnould, J. Bernard, A. Bateman, E. Solary, B. Lorcerie, B. Chauffert, and B. Bonnotte. Increase of CD4⁺CD25⁺FoxP3⁺ regulatory T cells in the peripheral blood of patients with metastatic carcinoma. A Phase I clinical trial using cyclophosphamide and immunotherapy to eliminate CD4⁺CD25⁺FoxP3⁺ T lymphocytes. **Clinical and Experimental Immunology**, 150: 523-530. 2007.
- 19) G. Li, S. Andreansky, M. Sepassi, N. Janikashvili, J. Cantrell, **N. Larmonier**, M. Penichet, and E. Katsanis. A multichaperoned heat shock protein based tumor vaccine can generate humoral immunity in a HER-2/neu specific mouse tumor model. **Molecular Cancer Therapeutics**, 7: 721-729. 2008.
- 20) **N. Larmonier**, J. Cantrell, C. LaCasse, G. Li, N. Janikashvili, E. Situ, M. Sepassi, S. Andreansky and E. Katsanis. Chaperone-rich tumor cell lysate -mediated activation of antigen presenting cell resists regulatory T cell suppression. **Journal of Leukocyte Biology**, 83: 1049-1059. 2008
- 21) C. Billerey-Larmonier, J.K. Uno, **N. Larmonier**, A.J. Midura, B. Timmermann, F.K. Ghishan, and P.R. Kiela. Protective effects of dietary curcumin in mouse model of chemically-induced colitis are strain dependent. **Inflammatory Bowel Diseases**, 14: 780-793. 2008.
- 22) **N. Larmonier**, N. Janikashvili, C. J. LaCasse, C. Larmonier, J. Cantrell, E. Situ, G. Li, B. Bonnotte and E. Katsanis. Imatinib mesylate suppresses CD4⁺CD25⁺ regulatory T cells and efficiently combines with immunotherapy to treat BCR-ABL^{negative} tumors. **The Journal of Immunology**. 181: 6955-6963. 2008.
- 23) X. Chen, M. Zhang, X. Zhu, Q. Deng, H. Liu, **N. Larmonier**, M.W. Graner and B. Zhou. Engagement of Toll-Like Receptor 2 on CD4⁺ T cells facilitates local immune responses in patients with tuberculous pleurisy. **The Journal of Infectious Diseases**. 200: 399-408. 2009
- 24) X. Chen, Q. Yang, M. Zhang, M. Graner, X. Zhu, **N. Larmonier**, M. Liao, W. Yu, Q. Deng, B. Zhou. Diagnosis of Active Tuberculosis in China Using an In-House Interferon-gamma Enzyme-Linked Immunospot Assay. **Clinical and Vaccine Immunology**. 16: 879-884. 2009
- 25) **N. Larmonier**, J. Fraszczak, D. Lakomy, B. Bonnotte and E. Katsanis. Killer dendritic cells and their potential for cancer immunotherapy. **Cancer Immunology Immunotherapy**. In press
- 26) J. Cantrell, C. Larmonier, N. Janikashvili, S. Bustamante, J. Fraszczak, A. Herrell, T. Lundeen, C. J. LaCasse, E. Situ, E. Katsanis* and **N. Larmonier***. Signaling pathways induced by a tumor-derived vaccine in antigen presenting cells. **Immunobiology**. *In Press*
- 27) J. Fraszczak, M. Trad, D. Lakomy, D. Cathelin, N. Janikashvili, N. Sassi, V. Granci, A. Morizot, S. Audia, L. Lagrost, E. Katsanis, E. Solary, B. Bonnotte* and **N. Larmonier***. Peroxynitrite-dependent killing of cancer cells and presentation of released tumor antigens by activated dendritic cells (*In Revision*)

- 28) C.B. Larmonier, M.T. Midura-Kiela, R. Ramalingam, **N. Larmonier**, F.K. Ghishan and P.R. Kiela. Modulation of Neutrophil Recruitment by Curcumin in Inflammatory Bowel Disease (*Submitted*)
- 29) N. Janikashvili, **N. Larmonier** and E. Katsanis. Personalized dendritic cell-based vaccines (*In Revision*)

◆ Abstracts

- 1) Fischer, J., H.P. Glauert, M. Black, **N. Larmonier**, M. Sweeney, and T. Yin. High iron intake does not enhance activation of hepatic NF- κ B by Wy-14, 643, a peroxisome proliferator. *Experimental Biology* 99, Washington DC, 1999. **FASEB J. 13: A917.**
- 2) Twaroski, T.P., **N. Larmonier**, M.L. O'Brien, H.P. Glauert, and L.W. Robertson. PCB-induced effects on cytochrome P-450 1A1, DT-Diaphorase, AP-1 binding and oxidative stress in the rat liver. *Molecular Carcinogenesis*. 91st Annual Meeting of the American Association for Cancer Research, San Francisco, CA, 2000. **American Association for Cancer Research. 41: 507.**
- 3) C.B. Larmonier, J.K. Uno, M.A. Lipko, **N. Larmonier**, F. Ghishan, and P.R. Kiela. Protective effects of dietary curcumin in trinitrobenzene sulfonic acid (TNBS)-induced colitis are mouse strain-dependent. **Gastroenterology. 132 (4): A229-A229 Suppl. 2. 2007**
- 4) J. Wright, E. Katsanis, and N. Larmonier. Modulation of regulatory T lymphocytes by killer dendritic cells. **Journal of Investigative Medicine. 57 :97. 2009.** Best Abstract, EE Osgood Award from the Western Society of Clinical Investigation.

◆ Other scientific communications

- 1) **N. Larmonier**, A. Nicolas, F. Ghiringhelli, D. Cathelin, F. Martin and B. Bonnotte. *Effects of progressive and regressive tumor cells on bone marrow derived dendritic cell phenotype.* Annual congress on Dendritic Cells (CFCD), Pasteur Institute, Paris, France. *Poster, 2003.*
- 2) Y. Zeng, X. Cai, **N. Larmonier**, E. Katsanis. *Chaperone Rich Cell Lysates (CRCL) activates innate immune response.* Keystone symposia 2005, Inflammation and Cancer. Keystone, Colorado, USA. *Poster, 2005.*
- 3) **N. Larmonier**, Y. Zeng, M. Marron, S. Thompson, E. Katsanis. *Role of CD4⁺CD25⁺ regulatory T cells in the immune response to Chaperone Rich Cell Lysates (CRCL) –based vaccination against a BCR-ABL⁺ leukemia.* Keystone symposia 2005, Basic aspects of Tumor Immunology. Keystone, Colorado, USA. *Poster, 2005.*
- 4) **N. Larmonier**, Y. Zeng, S. Andreansky, M. Marron, J. Cantrell, E. Katsanis. *Tumor-derived CD4⁺CD25⁺ regulatory T cells suppress dendritic cell function by a TGF- β and IL-10 dependent mechanism.* Frontiers in Biomedical Research 2005, University of Arizona Health Sciences Center, Tucson, Arizona, USA. *Poster, 2005.*
- 5) **N. Larmonier**, Y. Zeng, S. Andreansky, M. Marron, J. Cantrell, E. Katsanis. *Tumor-derived CD4⁺CD25⁺ regulatory T cells suppression of dendritic cell function involves TGF- β and IL-10.* Frontiers in Immunobiology and Immunopathogenesis Symposium 2006, University of Arizona Health Sciences Center, Tucson, Arizona, USA. *Poster, 2006.*
- 6) J. Cantrell, X. Cai, Y. Zeng, **N. Larmonier**, E. Katsanis. *Adjuvant Effect of CRCL: Activation of dendritic cells and macrophages.* Sixth Arizona Biosciences Research Symposium, Phoenix, Arizona, USA. *Poster, 2006.*
- 7) **N. Larmonier**, J. Cantrell, E. Katsanis. *Modulation of regulatory T lymphocyte-induced suppression of antigen presenting cells by chaperone rich cell lysates.* American Association for Cancer Research Special Conference, Tumor Immunology: an integrated perspective, Miami, Florida, USA. *Poster, 2006.*
- 8) C.B. Larmonier, J.K. Uno, M.A. Lipko, **N. Larmonier**, F. Ghishan, P.R. Kiela. *Protective Effects of Dietary Curcumin in Trinitrobenzene Sulfonic Acid (TNBS)-Induced Colitis are Mouse Strain-Dependent.* Digestive Disease Week, Washington, D.C., USA. *Poster, 2007.*

- 9) C.J. LaCasse, N. Janikashvili, J. Cantrell, E. Situ, **N. Larmonier** and E. Katsanis. *Suppression of CD4⁺CD25⁺ regulatory T cells by imatinib mesylate*. Third Frontiers in Immunobiology and Immunopathogenesis Symposium 2008, University of Arizona Health Sciences Center, Tucson, Arizona, USA. *Poster, 2008*.
- 10) J. Cantrell, **N. Larmonier** and E. Katsanis. *Adjuvant effects of CRCL: CRCL activation of DC and Macrophages*. Third Frontiers in Immunobiology and Immunopathogenesis Symposium 2008, University of Arizona Health Sciences Center, Tucson, Arizona, USA. *Poster, 2008*.
- 11) E. Situ, D. Mérimo, N. Janikashvili, E. Katsanis and **N. Larmonier**. *Evaluation of Tumor Necrosis Factor - Related Apoptosis-Inducing Ligand (TRAIL) effects on regulatory T cells*. Third Frontiers in Immunobiology and Immunopathogenesis Symposium 2008, University of Arizona Health Sciences Center, Tucson, Arizona, USA. *Poster, 2008*.
- 12) J. Fraszczak, M. Trad, E. Katsanis, B. Bonnotte* and **N. Larmonier***. *Dendritic cells activated with a TLR-4 agonist kill tumor cells by a peroxynitrite-dependent mechanism and present antigens to specific T lymphocytes*. Frontiers in Biomedical Research 2008, College of Medicine, University of Arizona, Tucson, Arizona, USA. *Poster, 10/2008*.
- 13) J. Fraszczak, M. Trad, C. Dominique, N. Janikashvili, E. Katsanis, B. Bonnotte* and **N. Larmonier***. *Peroxyntitrite-dependent killing of cancer cells and presentation of released tumor antigens by activated dendritic cells*. Club Francophone des Cellules Dendritiques, Paris, France. *Oral communication (J. Fraszczak), 03/2009*.
- 14) J. Fraszczak, Amanda Herrell, Nona Janikashvili, M. Trad, E. Katsanis, B. Bonnotte and **N. Larmonier**. *Cytotoxic dendritic cells as negative regulators of Treg*. Fourth Frontiers in Immunobiology and Immunopathogenesis Symposium, Tucson, Arizona, USA. *Poster, 03/2009*.

Invited Speaker

- 1) **N. Larmonier**. *Tumoricidal activity of freshly isolated bone marrow cells*. Scientific Conference of the Medicine and Pharmacy Faculties, Dijon, France. 10/2002.
- 2) **N. Larmonier**. *Immunity versus tolerance in cancer*. Department of Pediatrics Research Seminars, University of Arizona, Tucson, Arizona. 09/2004.
- 3) **N. Larmonier**. *CD4⁺CD25⁺ Regulatory T cells: Obstacles in dendritic cell-based cancer immunotherapy?* Department of Immunology Seminar Series, Immunobiology Graduate Program, University of Arizona, Tucson, Arizona. 09/2005.
- 4) **N. Larmonier**. *The immunosuppressive lymphocyte: Dr. Jekyll or Mr. Hyde?* Department of Pediatrics Research Seminars, University of Arizona, Tucson, Arizona. 10/2007.
- 5) **N. Larmonier**. *Regulatory T lymphocytes in cancer: Myth or Reality?* Department of Immunology Seminar Series, Immunobiology Graduate Program, University of Arizona, Tucson, Arizona. 10/2007.
- 6) **N. Larmonier**. *Regulatory T lymphocytes in cancer: when Dr Jekyll turns into Mr Hyde, can imatinib mesylate come to the rescue?* Third Frontiers in Immunobiology and Immunopathogenesis Symposium, Hilton El Conquistador, Oro Valley, Arizona. 03/2008.
- 7) **N. Larmonier**. *The immune system: what it is and how it can be driven to fight cancer?* Conference, AmeriSchools High School, Tucson, Arizona. 04/2008.
- 8) **N. Larmonier**. *The regulatory (suppressor) T lymphocyte in cancer: when Dr. Jekyll turns into Mr. Hyde...* Cancer Biology Graduate Interdisciplinary Program Seminar Series, Cancer Biology Graduate Interdisciplinary Program, University of Arizona, Tucson, Arizona. 09/2008.
- 9) **N. Larmonier**. *Cytotoxic dendritic cells as negative regulators of Treg*. Fourth Frontiers in Immunobiology and Immunopathogenesis Symposium, Tucson, Arizona. 03/2009.

Research grants and funding

◆ Completed

Agency	Title	Period	Role
Institutional Cancer Research Grant. ACS IRG7400131	Regulatory T cells in colon carcinogenesis: Role and modulation with curcumin	2008-2009	Principal Investigator

◆ Ongoing

Agency	Title	Period	Role
University of Arizona. Hem/Onc Section	-	2006-	Principal Investigator
Immunovative Therapies Ltd. (Industry)	Chaperone Rich Cell lysate and Allostim cancer vaccines	2008-	Co-Principal Investigator (PI: Katsanis)
Alex's Lemonade Stand Foundation for Childhood Cancer	Reciprocal interactions between tumor killer DC and tumor-induced Treg	2008-2010	Principal Investigator
National Institute of Health. NCI RO1	Immunotherapy for CML	2009-2014	Co-Investigator (PI: Katsanis)

◆ Pending

ABRC (Pending)	Overcoming tumor-induced Treg suppression with tumor killer dendritic cells	2009-2012	Principal Investigator
NIH RO1 (Pending)	Cytotoxic dendritic cells for cancer immunotherapy	2010-2015	Principal Investigator
NIH RO1 (Pending)	Role of Th-17 lymphocytes in Cancer	2010-2015	Co-Principal Investigator (PI: Katsanis)