

CURRICULUM VITAE

Jonathan Scott Reichner, Ph.D.

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Business Address: Department of Surgery
Rhode Island Hospital
593 Eddy Street
Providence, RI 02903

Business Telephone Number: (401) 444-8683

EDUCATION

1972-1976 Ohio State University
Columbus, Ohio
Microbiology, B.S.

1979-1983 State University of New York at Buffalo
Buffalo, New York
Microbiology/Immunology, Ph.D.
Thesis: "*Genetic Regulation of the Humoral Immune Response to the Different Forms of Thy-1 Alloantigens*"

POSTDOCTORAL EXPERIENCE

1983-1984 Department of Anatomy, University of Connecticut Health Science Center, Farmington, CT

1984-1985 Department of Biochemistry and Molecular Biology, MD Anderson Hospital & Tumor Institute of the University of Texas Cancer Center, Houston, TX

1985-1988 Department of Biological Chemistry, Johns Hopkins School of Medicine, Baltimore, MD

HOSPITAL APPOINTMENTS:

1977-1979 Medical Bacteriologist, Nassau County Medical Center, East Meadow, NY

1979-1982 Research Assistant, Department of Microbiology and Immunology, SUNY at Buffalo, Buffalo, NY

1982-1983 Teaching Assistant, Department of Microbiology and Immunology, SUNY at Buffalo, Buffalo, NY

1983-1984 Research Assistant, Department of Anatomy, University of Connecticut Health Science Center, Farmington, CT

1984-1985 Project Investigator, Department of Biochemistry and Molecular Biology, MD Anderson Hospital & Tumor Institute of the University of Texas Cancer Center, Houston, TX

1985-1988 Research Associate, Department of Biological Chemistry, Johns Hopkins School of Medicine, Baltimore, MD

1988-present Research Associate, Rhode Island Hospital, Providence, RI

ACADEMIC APPOINTMENTS:

1988-1991 Assistant Professor (Research), Department of Medicine, Subdivision of Hepatology, Rhode Island Hospital and Brown University, Providence, RI

1991-1996 Assistant Professor (Research), Department of Surgery, Rhode Island Hospital and Brown University, Providence, RI

1996-2013 Associate Professor (Research), Department of Surgery, Rhode Island Hospital and Brown University, Providence, RI

1997-present Member,

Pathobiology Graduate Faculty, Department of
Biology and Laboratory Medicine, Brown
University.

- 2003-2007 Associate Director,
Pathobiology Graduate Program, Department of
Biology and Laboratory Medicine,
Brown University
- 2008-2015 COBRE Center for Cancer Research
Associate Director
- 2010-2019 Co-Director,
Pathobiology Graduate Program, Department of
Biology and Laboratory Medicine,
Brown University
- 2013-present Member,
Graduate Program in Molecular Pharmacology,
Physiology and Biotechnology, Brown
University
- 2014-present Professor (Research), Department of Surgery,
Rhode Island Hospital and Brown University,
Providence, RI

OTHER APPOINTMENTS

- 2006-2016 Scientific Advisor Board, Biotherapharma,
Eagan, MN
- 2010-2017 Associate Editor
Analytical Cellular Pathology
- 2013-2017 Editorial Board
ASM Clinical and Vaccine Immunology
- 2018-2020 Editorial Board
Experimental Mechanics

PROFESSIONAL SOCIETIES

- 1995-present American Association of Immunologists
1994-present Society for Leukocyte Biology
1983-present Buffalo Collegium of Immunology
1979-present American Association of the Advancement of
Science

1978-1987	American Society for Microbiology
1978-1987	American Society for Clinical Pathologists
2002-present	American Society for Investigative Pathology
2004-2013	American Society for Investigative Pathology Education Subcommittee
2004-2006	Graduate Program Directors Committee
2009	Session Chair, ASIP Annual Meeting
2013	Session Chair, ASIP Annual Meeting
2013	Co-Organizer, Graduate Directors Workshop Society For Leukocyte Biology
2013	Session Chair, SLB Annual Meeting
2018-2020	Associate Editor, Experimental Mechanics
2019-2023	Chair, Development Committee, SLB
2019-2023	Member, Awards Committee, SLB

PROFESSIONAL CERTIFICATIONS

1978-present	Microbiologist (American Society for Clinical Pathologists)
1978-present	Microbiologist (National Registry of Microbiologists)

PUBLICATIONS

1. Zaleski, M.B., Gorzynski, T.J. and **Reichner, J.S.**: H-2 molecules in recognition of Thy-1 antigens: Facts and speculations. *Amer J Reprod. Immunology*. 1:140-44, 1981.
2. Gorzynski, T.J., **Reichner, J.S.** and Zaleski, M.B.: The I genotype and the anti-Thy-1 response: Revival of the Ir-Thy-1 concept. *Transplantation* 32:158-61, 1981.
3. **Reichner, J.S.** and Zaleski, M.B.: The search for H-2 complementation affecting the anti-Thy-1 response in mice: A progress report. *Immunological Communications* 10:523-31, 1981.
4. Zaleski, M.B. and **Reichner, J.S.**: The Ir-Thy-1 concept: Facts and interpretations. *Survey of Immunological Research*. 1:76-84, 1982.
5. Zaleski, M.B. and **Reichner, J.S.**: Differences in the requirements for primary anti-Thy-1 responses elicited by intact or by sonicated allogeneic thymocytes. *Transplantation Proceedings*. 15:330-32, 1983.
6. **Reichner, J.S.** and Zaleski, M.B.: Class II molecules in anti-Thy-1 response in inbred mice: Studies on new Thy-1 and H-2 congenic strains. *Transplantation* 37:108-10, 1983.

7. **Reichner, J.S.**, Gorzynski, T.J. and Zaleski, M.B.: New Thy-1 and H-2 cogenic strains of mice and their application in studies on the mechanism of anti-Thy-1.1 response. *Immunological Communications*. 12:501-508, 1983.
8. Zaleski, M.B., **Reichner, J.S.**, and Albina, B.: Preliminary analysis of primary and secondary anti-Thy-1 responses elicited by immunization with cell-bound and cell-free antigen. *Archives Allergy and Applied Immunology*. 73:263-268, 1984.
9. Zaleski, M.B., Quackenbush, L.J., Gorzynski, T.J. and **Reichner, J.S.**: The Ir-Thy-1 Concept: Continuing Saga. *Survey of Immunological Research* 5:79-88, 1986.
10. Bayna, E.M., Runyan, R.B., Skully, N.F., **Reichner, J.S.**, Lopez, L.C. and Shur, B.D.: Cell surface galactosyltransferase as a recognition molecule during development. *Molecular and Cellular Biochemistry*. 72:141-152, 1986.
11. **Reichner, J.S.**, Whiteheart, S.W. and Hart, G.W.: Intracellular trafficking of cell surface glycoconjugates. *Journal of Biological Chemistry* 263:16316-16326, 1988.
12. Zhou, P., **Reichner, J.S.**, Gorzynski, T.J., Quackenbush, L.J. and Zaleski, M.B.: Class I-restricted response to Thy-1 antigen requires L3T4+ cells and macrophages but not Lyt-2+ cells. *Transplantation* 47:1089-1093, 1989.
13. Zaleski, M.B., Zhou, P., Quackenbush, L.J., Gorzynski, T.J. and **Reichner, J.S.**: The Ir-Thy-1 concept: A swan song. *Immunological Research*. 8:316-126, 1989.
14. Whiteheart, S.W., Passaniti, A., **Reichner, J.S.**, Holt, G.D., Haltiwanger, R.S. and Hart, G.W.: Glycosyltransferase probes. *Methods in Enzymology*. 179:82-95, 1989.
15. Albina, J.E., Cui, S., Mateo, R.B. and **Reichner, J.S.** Nitric oxide mediated apoptosis in murine peritoneal macrophages. *J. Immunol.* 150:5080-5085, 1993.
16. Cui, S., **Reichner, J.S.**, Mateo, R.B. and Albina, J.E. Activated macrophages induce apoptosis in tumor cells through nitric oxide-dependent or-independent mechanisms. *Cancer Research* 54:2462-2467, 1994.
17. Mateo, R.B., **Reichner, J.S.** and Albina, J.E. Interleukin 6 activity in wounds. *American Journal of Physiology* 266:R1840-1844, 1994.
18. Coburn, M.C., Hixson, D.C., and **Reichner, J.S.** In vitro immune response of rats lacking active dipeptidylpeptidase IV. *Cellular Immunology* 158:269-280, 1994.
19. Albina, J.E. and **Reichner, J.S.** Nitric oxide in inflammation and immunity. *New Horizons: The Science and Practice of Acute Medicine* 3:46-64, 1995.

20. Mateo, R.B., **Reichner, J.S.**, Mastrofrancesco, B., Kraft-Stolar, D. and Albina, J.E. Impact of nitric oxide on glyceraldehyde-3-phosphate dehydrogenase activity and glucose metabolism in rat macrophages. *American Journal of Physiology* 268:C669-C675, 1995.
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31. **Reichner, J.S.**, Helgemo, S.L., and Hart, G.W. Recycling cell surface glycoproteins undergo limited oligosaccharide reprocessing in Lecl mutant Chinese Hamster Ovary Cells. *Glycobiology.* 8:1173-1182, 1998.

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71. Brancato, S.K., Thomay, A.A., Daley, J.M., Crane, M.J. **Reichner, J.S.**, Sabo, E. and Albina, J.E. Toll-like receptor 4 signaling regulates the acute local inflammatory response to injury and the fibrosis/neovascularization of sterile wounds. *Wound Repair Regen.* 21: 2013.
72. Fox, E., Heffernan, D., Cioffi, W., and **Reichner, J.S.** Neutrophils from critically ill patients mediate profound loss of barrier integrity. *Critical Care.* 17:226-232, 2013.
73. Ayala, A., Elphick, G.F., Kim, Y.S., Huang, X., Carreira-Rosario, A., Santos, S.C., Shubin, N.J., Chen Y., **Reichner, J.S.**, Chung, C.S. Sepsis-Induced Potentiation of Peritoneal Macrophage Migration Is Mitigated by Programmed Cell Death Receptor-1 Gene Deficiency. *J. Innate Immunity*, 6:325-338, 2014.
74. O'Brien, X.M., Heflin, K.E., Loosley, A., Tang, J.X. and **Reichner, J.S.** Introducing a Novel Metric, Directionality Time, to Quantify Human Neutrophil Chemotaxis as a Function of Matrix Composition and Stiffness. *J. Leuk. Biol.* 95:993-1004, 2014.
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Biol. Chem. 290:3752-3763, 2015.

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83. Biron, B.M, Chung, C.S., O'Brien, X.M., Chen, Y., **Reichner, J.S.** and Ayala, A. Cl-amidine prevents histone 3 citrullination and neutrophil extracellular trap formation, and improves survival, in a murine sepsis model. *J. Innate Immunity*, 9:22, 2017.
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BOOK CHAPTERS

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112. Byrd, A.S., O'Brien, X.M., Johnson, C.M., Zarembler, K.A., Sampaio, E.P., Holland, S.M. and **Reichner, J.S.** Evaluation of NETosis in patients with primary immunodeficiencies: Evidence for an ROS independent pathway. Society for Leukocyte Biology, 2013.
113. Johnson, C.M., Byrd, A.S., and **Reichner, J.S.** Role of GSK3 beta and ERK in the human neutrophil response to fungal beta-glucan. Society for Leukocyte Biology, 2013.
114. O'Brien, X.M., Loosley, A.J., Oakely, K.E., Tang, J.X. and **Reichner, J.S.** Human neutrophil chemotaxis is a function of matrix stiffness and composition. Society for Leukocyte Biology, 2013.
115. Toyjanova, J., Flores-Cortez, E., **Reichner, J.**, and Franck, C., 3D Neutrophil Traction in Changing Microenvironments", SES 50th Annual Technical Meeting and ASME-AMD Annual Summer Meeting, July 2013
116. Toyjanova, J., Flores-Cortez, E., **Reichner, J.**, and Franck, C., 3D Neutrophil Traction in Changing Microenvironments", Conference Proceedings, Society of Experimental Mechanics National Conference, June 2013
117. Johnson, C.M., Byrd, A.S., and **Reichner, J.S.** Role of GSK3 beta and ERK in the human neutrophil response to fungal beta-glucan. Experimental Biology, 2014.
118. Byrd, A.S., O'Brien, X.M., Johnson, C.M., Zarembler, K.A., Sampaio, E.P., Holland, S.M. and **Reichner, J.S.** Evaluation of NETosis in patients with primary immunodeficiencies: Evidence for an ROS independent pathway. Experimental Biology, 2014.
119. Loosley, A.J., O'Brien, X.M., **Reichner, J.S.** and Tang, J.X. Quantification of directional migration by a characteristic directionality time. Biophys. J. 106:573a, 2014. Neutrophil, 2014.
120. **Reichner, J.S.**, O'Brien, X.M., Laforce-Nesbitt, S., Zarembler, K.A., Sampaio, E.P., Bliss, J.M., Newburger, P.E., Holland, S.M., and Byrd, A.S. Neonatal neutrophils release NETs in response to fungal beta-glucan and fibronectin, 2014

121. Johnson, C.M., Parisi, V., Loosley, A., Byrd, A.S., and **Reichner, J.S.** Integrin cross-talk regulation of human neutrophils adhered to fibronectin and beta-glucan. *Neutrophil*, 2014.
122. Stout D., Toyjanova, J., Bar-Kochba, E., Estrada, J., **Reichner, J.S.** and Franck, C. 3D Strain Signatures of Healthy and Septic Neutrophils in Collagen", Society of Experimental Mechanics National Conference, June 2014
123. Johnson, C.M., Byrd, A.S., Parisi, V., and **Reichner, J.S.** Integrin cross-talk regulation of human neutrophils adhered to fibronectin and beta-glucan. *Experimental Biology*, 2015.
124. **Reichner, J.S.**, Dickinson, C.M., O'Brien, X.M., Heffernan, D., Cioffi, W.G., Faridi, M.H., and Gupta, V. The small molecule CR3 agonist Leukadherin-1 is protective of the endothelial barrier disruption when challenged by neutrophils obtained from critically ill patients. Society for Leukocyte Biology, 2016.
125. Girard, B., Chung, C-S., Chen, Y., **Reichner, J.S.**, and Ayala, A. Do NETs matter? Establishing a role for neutrophil extracellular traps in acute lung injury. Society for Leukocyte Biology, 2016.
126. Witt, H., O'Brien, X.M., Johnson, C.M., Huang, A. and **Reichner, J.S.** Signaling pathways mediating the human neutrophil response to fungal beta-glucan. Society for Leukocyte Biology, 2016.
127. Witt, H., LeBlanc, B. and **Reichner, J.S.** An integrin-driven basis for the neutrophil response to *C. albicans*. *Neutrophil*, 2018.
128. Witt, H., Franck, C and **Reichner, J.S.** Mechanosensing Regulates Effector Functions of Human Neutrophils. Society for Leukocyte Biology (Boston, MA 2019)
129. Witt, H., Franck, C and **Reichner, J.S.** Traction Force Microscopy of Neutrophils from Critically Ill Patients. Society for Leukocyte Biology (Virtual 2020)
130. Witt, H., Franck, C and **Reichner, J.S.** Mechanosensitive Traction Force Generation is Regulated by the Neutrophil Activation State. *Experimental Biology* (Virtual 2021)
131. Witt, H., Franck, C and **Reichner, J.S.** Mechanosensing of Substrate Stiffness Regulates Effector Functions of Human Neutrophils. *Experimental Biology* (Virtual 2021)
132. Witt, H., Franck, C and **Reichner, J.S.** Traction Force Microscopy of Neutrophils From Critically Ill Patients" Society for Leukocyte Biology (Virtual 2021)

Invited Seminars:

Regional:

- “The Controversy of Endocytosis.” Rhode Island Hospital Research Journal Club. February 15, 1989
- “The Activation of Macrophages by β -Glucan.” Rhode Island Hospital Gastroenterology Research Conference. March 3, 1989
- “Endocytosis of Cell Surface Glycoproteins.” Rhode Island Hospital Gastroenterology Research Conference. December 8, 1989
- “A Multifaceted Approach Towards Kupffer Cell Analysis.” Rhode Island Hospital Gastroenterology Research Conference. December 14, 1990
- “Stimulation and Evaluation of Liver Macrophage Functions.” Miriam Hospital Department of Surgery Research Conference. December 18, 1990
- “Clinical Potential for Enhancement of Macrophage Activity.” Rhode Island Hospital Research Journal Club. February 4, 1991
- “Towards a Comprehensive Understanding of Liver Macrophage Functions.” Division of Surgical Research Seminar Series. March 26, 1991.
- “Mechanisms of Tumor Metastasis.” Surgical Research Conference, Department of Surgery, Rhode Island Hospital. April 21, 1994.
- “Consequences of Nitric Oxide Production by Rat Macrophages.” Surgical Research Conference, Department of Surgery, Rhode Island Hospital. July 19, 1994.
- “Nitric Oxide, Apoptosis and Cancer.” Rhode Island Hospital Research Journal Club. November 21, 1994.
- “Cytolytic Effects of Nitric Oxide Production from Rat Macrophages.” Shock, Trauma and Metabolism Research Conference, Department of Surgery, Rhode Island Hospital. April 25, 1995.
- “Mechanisms of Metastasis” Neurosurgery Research Conference, Rhode Island Hospital. July 12, 1995.
- “IL-6 Production by Tumor Cells Correlates with Metastatic Potential but Not with Tumorigenicity.” New England Surgical Society, Montreal, Quebec. October 1, 1995.
- “The Role of Macrophage-Derived Nitric Oxide in Tumor Cell Death”. Symposium on Nitric Oxide and Immune Responses to Allografts and Tumors, Jagellonian University, Krakow, Poland. December 6, 1995.

- Session chairman, “Nitric Oxide in Anti-Tumor Defense”. Symposium on Nitric Oxide and Immune Responses to Allografts and Tumors, Jagellonian University, Krakow, Poland. December 6, 1995.
- “Nitric Oxide-Mediated Macrophage Cytotoxicity: An Update”. Pulmonary Research Conference, Brown University. January 17, 1996.
- “Mechanisms of Metastasis: Bridging of Immunology and Cancer”. Brown University Department of Surgery Grand Rounds. February 28, 1996.
- “Correlation of Metastatic Potential with Tumor IL-6 Production”. Surgical Research Conference, Department of Surgery, Rhode Island Hospital. May 21, 1996.
- "IL-6 Increases Metastatic Potential of Rat Hepatocellular Carcinoma" Department of Surgery, Rhode Island Hospital. April 29, 1997.
- "Molecular Mechanisms of Metastasis". Department of Medical Oncology. Rhode Island Hospital. February 19, 1998.
- "The Role of Interleukin-6 in Cancer Metastasis". Department of Biomedical Sciences, University of Rhode Island. March 20, 1998.
- “Effect of IL-6 on Cancer Metastasis”. Department of Surgery, Rhode Island Hospital. April 15, 1998.
- “Effect of beta-Glucan on Integrin-Mediated Neutrophil Migration”. Department of Molecular Pharmacology, Physiology and Biotechnology, Brown University. April 17, 1998.
- “A Consideration of Autocrine and Paracrine Pathways in Tumor Metastasis”. Department of Surgery, Rhode Island Hospital. October 14, 1998.
- “Integrin Cross-Talk May Regulate Migration of Human Neutrophils”. Department of Pathology and Laboratory Medicine, Pathobiology Graduate Program Seminar Series, Brown University. January, 1999.
- “Interleukin-6 May Mediate Metastasis of Rat Hepatocellular Carcinoma Cells”. Southern Society of Clinical Surgeons. Sixty-ninth annual meeting. April, 1999.
- “Mechanisms of Metastasis” Department of Pathology, Brown University. July, 1999.
- "Role of IL-6 in Metastasis". Department of Surgery, Rhode Island Hospital. Thompson Lectureship. January, 2000.
- "Effect of Fungal Cell Wall Components on Host Response to Candidiasis". Pulmonary Research Conference, Department of Medicine, Brown University. April 8, 2002.

- "Integrin Involvement in Inflammation". Department of Surgery Grand Rounds. Department of Surgery, Brown University. May 15, 2002.
- "Effect of Fungal Cell Wall Components on Host Response to Candidiasis". Infectious Disease Grand Rounds. Brown University. July 17, 2002.
- "How Neutrophils Compromise Endothelial Barrier Function". Department of Medicine Pulmonary Research Conference, Brown University, December 13, 2004.
- "Neutrophil Mechanosensing" Department of Medicine, Division of Liver Research, Brown, 2009.
- "Recent Advances in Inflammation Research" Brown University, Department of Surgery Grand Rounds, 2010.
- "Neutrophil Mechanosensing" Department of Orthopaedics Grand Rounds, 2011.
- The carbohydrate binding function of the leukocyte integrin CR3 (CD11b/CD18) and its effects on neutrophil function. MMI. Brown University. October 4, 2012
- "Mechanosensing" Wheeler High School, BioMed Club, October, 2012
- "A New Dimension in Inflammation Research" Surgery Grand Rounds, Rhode Island Hospital, December, 2013.
- "Neutrophil NETs in Fungal Host Defense". IvyPlus Symposium, Cambridge, MA, March, 2014.
- "Physical Factors Finesse Neutrophil Functions". Brown University Pulmonary Research Seminar. March, 2014.
- Realizing the Tumor Killing Capability of Human Neutrophils. Cancer Biology Group. Brown University. February, 2020.
- Neutrophil Mechanosensing. CARTD COBRE. RI Hospital. June 2022.

National:

- "An Approach to the Study of the β -Glucan Receptor." Alpha-Beta Technology, Inc. Worcester, MA. August 13, 1993.
- "Overexpression of IL-6 Increases Metastatic Potential of Rat Hepatocellular Carcinoma" Society of Surgical Oncology, Chicago, IL. March 22, 1997.
- "Integrin Signalling in Leukocyte Diapedesis". Biopolymer Engineering, Inc., Eagan, MN. August 28, 2003.

-
- “Novel aspects of neutrophil priming by the lectin-like site of CR3 (CD11b/CD18). McGill Centre for the Study of Host Resistance, May 30, 2005.
- “Role of integrins in neutrophil function” Harvard School of Public Health, October 30, 2007
- “Regulation of beta2 integrins on human neutrophils” Boston University, Department of Pathology, June 14, 2008.
- “The carbohydrate binding function of the leukocyte integrin CR3 (CD11b/CD18) and its effects on neutrophil function. From basic science to anti-cancer clinical trials. Sanford-Burnham Medical Research Institute. April 29, 2011.
- “CR3 (CD11b/CD18) ligation determines neutrophil NET release” Society for Leukocyte Biology, October, 2013
- “Neutrophil Mechanosensing” Harvard School of Public Health, November 6, 2012
- “An Integrin-Based Mechanism of Pathogen Recognition”. Experimental Biology, April, 2014.
- “Complement Receptor 3: A Target for Gaining Control of Inflammation”. Rush Medical School. September, 2014.
- “Mechanoregulation of Human Neutrophil Host Defense”. Experimental Biology, April, 2015.
- “Integrin Cross-Talk Regulates the Neutrophil Response to Fungal beta-Glucan and *Candida albicans*”. Vascular Biology Seminar Series, Brigham and Women’s Hospital, Boston, MA. April, 2015.
- “Integrins Determine Distinct Effector Functions in anti-Candida Neutrophils”. Department of Laboratory Medicine, Yale University, New Haven. February, 2016.
- “Neutrophil Integrins Determine Response of Human Neutrophils to *C. albicans* and Sepsis”. University of Wisconsin, Madison. April, 2019.

RESEARCH AWARDS (Completed):

1984-1986

"Glycosyltransferases in Immune Recognition."
 NCI F32 CA07605 Postdoctoral Fellowship
 Principal Investigator: Jonathan Reichner
 Direct costs: \$39,732.

1989-1991	<p>"Mechanism of Macrophage Stimulation by Glucan." Elsa U. Pardee Foundation Research Award. Principal Investigator: Jonathan Reichner Direct costs: \$35,000.</p>
1991-1993	<p>"Rat Model of Transplantable Hepatocellular Carcinoma." NCI CA54877 Principal Investigator: Jonathan Reichner Direct costs: \$99,820.</p>
1992-1996	<p>"Arginine Regulation of Cell Function in Healing Wounds." NIH R01GM 42859-04 Principal Investigator: Jorge Albina Co-PI: Jonathan Reichner Direct costs: \$537,091.</p>
1994-1995	<p>"Regulation of Metastasis by the Wound Environment" American Cancer Society Institutional Research Grant. Principal Investigator: Jonathan Reichner Direct costs: \$7,500.</p>
1995-1996	<p>"Development of a Rat Model for Gene Therapy" Rhode Island Hospital Developmental Grant. Principal Investigator: Jonathan Reichner Direct costs: \$20,000.</p>
1996-2001	<p>"Characterization of the beta-Glucan Receptor" NIH RO1 GM51493. Principal Investigator: Jonathan Reichner Direct costs: \$428,049.</p>
1996-2000	<p>"Arginine Regulation of Cell Function in Healing Wounds." NIH R01GM42859-08. Principal Investigator: Jorge E. Albina Co-PI: Jonathan Reichner Direct costs: \$1,250,000</p>
1998-1999	<p>"Use of Genetically-Engineered Osteogenic Progenitor Cells for Therapeutic Protein Production:</p>

Treatment of Bone Metastases with Osteolytic Inhibitory Agents".

Rhode Island Center for Cellular Medicine
Commercial Innovation Award.

Co-Principal Investigators: Hugh Keeping and
Jonathan Reichner

Direct costs: \$56,250.

2000-2001

"High Performance Flow Cytometry - Cell
Sorting System."

NIH-NCRR Shared Inst. Grant:

Grant No. PAR-99-031

Principal Investigator: Paul N. McMillian

Major User/Collaborator: Jonathan Reichner

1989-2012

"Cellular/Molecular Biology of Inflammation and
Repair"

NIH R01GM42859-09.

Principal Investigator: Jorge E. Albina

Co-PI: Jonathan Reichner

Direct costs: \$1,250,000

2006

"Effect of Neutrophil Priming on Chemotaxis and
Signaling"

NIH RO1 GM066194-S1 (Admin. supplement).

Principal Investigator: Jonathan Reichner

Direct costs: \$44,640.

2007

"Effect of Neutrophil Priming on Chemotaxis and
Signaling"

NIH R56GM066194-05 (Bridge Supplement).

Principal Investigator: Jonathan Reichner

Direct costs: \$165,360

2007

"Integrin-mediated adhesion and retraction during
cell migration"

Brown University Seed Grant

Co-Principal Investigators: Jay Tang, Dept. Physics
and Jonathan Reichner,

Direct costs: \$50,000

2007-2012

"STAT3 Acetylation and Deacetylation in
Metastasis"

NIH R01 CA102128

Principal Investigator: Y. Eugene Chin, MD, PhD

Collaborator: Jonathan Reichner

- 2009-2011 "Effect of Neutrophil Priming on Chemotaxis and Signaling" (ARRA Supplement)
NIH RO1 GM066194.
Principal Investigator: Jonathan Reichner
Direct costs: \$160,000
- 2008-2013 "LFA1 in Lymphocyte Migration"
NIH HL 087088
Principal Investigator: Minsoo Kim
Collaborator: Jonathan Reichner
- 2008-2011 "Neutrophil Mechanosensing"
NIH R21 AI079582.
Principal Investigator: Jonathan Reichner
Direct costs: \$427,307
- 2001-2011 "Cellular/Molecular Biology of Inflammation and Repair"
NIH R01 GM42859-09.
Principal Investigator: Jorge E. Albina
Co-PI: Jonathan Reichner
Direct costs: \$1,250,000
- 2009-2011 "Towards a Molecular Signature of Neutrophil Priming"
NIH R21AI083908,
Principal investigator: A. Salomon
Co-PI: Jonathan Reichner
Direct costs: \$435,741
- 2003-2013 "Effect of Neutrophil Priming on Chemotaxis and Signaling"
NIH RO1 GM066194.
Principal Investigator: Jonathan Reichner
Direct costs: \$1,180,000
- 2012-2015 "Neutrophil Migration in Three Dimensions"
NIH R21 AI101469
Principal Investigator: Jonathan Reichner
Direct costs: \$295,271
- 2012-2014 "Enhancement of Chronic Wound Healing with Non-Invasive, Local Skin Vibratory Stimulation"
Rhode Island Research Alliance Collaborative
Principal Investigator: Jonathan Reichner

	Direct costs: \$200,000
2013-2014	<p>“Three-dimensional Traction Mapping Distinguishes Neutrophils from Healthy and Septic Donors” Brown University Seed Grant Co-PIs: Jonathan Reichner and Christian Franck Direct costs: \$50,000</p>
1995-2014	<p>“Programmed Cell Death: Role in Septic Immune Dysfunction” NIH R01 GM 053209 Principal Investigator: Alfred Ayala Collaborator: Jonathan Reichner Total costs: \$1,039,163</p>
2003-2014	<p>“Regulatory Mechanisms of Acute Lung Injury: Phagocyte Apoptosis” Principal Investigator: Alfred Ayala NIH R01 HL63898 Collaborator: Jonathan Reichner</p>
2013-2018	<p>COBRE Cardiopulmonary Vascular Biology NIH P20 GM103652 Principal Investigator: Sharon Rounds Mentor: Jonathan Reichner</p>
2013–2018	<p>“Co-Inhibitory Molecules and the Pathology of Indirect Acute Lung Injury” R01 GM107149-01 PI: A. Ayala Role: Collaborator</p>
2014 –2019	<p>“Neutrophil-Endothelial Interactions and Barrier Function in Sepsis” R01 HL125265-01 Multi-PI: M. Kim, J. Reichner, R. Waugh</p>
2015-2020	<p>“Use of Biomimicry to Determine the Effect of Sepsis on Neutrophil Traction” R01-AI116629 Multi-PI: J. Reichner and C. Franck</p>
2009-2020	<p>“COBRE Center for Cancer Research” NIH P20 GM103421 Principal Investigator: B. Ramratnam</p>

Associate Director: Jonathan Reichner

- 2017-2022 “Brown Respiratory Research Training Program”
NIH T32 HL134625
PI: Harrington, E. and Bennett, R.
Role: Faculty Trainer
- 2004-2020 Trauma and Inflammation Research Training
NIH T32 GM065085-04.
Principal Investigator: Jorge E. Albina
Role: Faculty Trainer
- 2019-2024 “Identification of a Damaging Subset of Neutrophils
that Arises in Septic Patients
NIH RO1 HL147525
Multi-PI: J. Reichner and M. Kim

RESEARCH AWARDS (Active)

- 2023-2025 “Investigating the Ability of Human Neutrophils to
Kill Cancer”
NIH RO3 CA280714
PI: J. Reichner
- 2021-2026 *COBRE: Center for Computational Biology of
Human Disease*
NIH P20 GM109035
PI: David Rand, Ph.D.
Role: Junior Faculty Mentor for Ian Wong

NIH Funding in Support of the Society for Leukocyte Biology Annual Meeting

- 2019-2020 *52nd Annual Meeting of the Society for Leukocyte
Biology*
R13 AI147525
PI: Reichner
- 2020-2021 *53rd Annual Meeting of the Society for Leukocyte
Biology*
R13 AI154719
PI: Reichner
- 2021-2022 *54th Annual Meeting of the Society for Leukocyte
Biology*
R13AI164788
PI: Reichner

2022-2023

*55th Annual Meeting of the Society for Leukocyte
Biology*
R13 AI172247
PI: Reichner

TEACHING

1978-1979: Clinical Microbiology for Medical Technologists. Nassau County Medical Center, East Meadow, NY

1981-1983: Teaching Assistant in Medical Microbiology 600 for second year medical and graduate students. Department of Microbiology and Immunology, SUNY at Buffalo.

1981-1983: Lecturer in Microbiology 111 for undergraduates. Department of Microbiology and Immunology, SUNY at Buffalo.

BROWN UNIVERSITY TEACHING:

1990

- Introduction to Research Concepts and Methodology, Roger Williams Cancer Center, 6 weekly lectures
- BIO 129. Cancer Biology, 2 x 1h lectures

1991

- Introduction to Research Concepts and Methodology, Roger Williams Cancer Center, 6 weekly lectures
- BIO 129 Cancer Biology, 2 x 1h lectures
- BIO 195/196 Undergraduate Independent Study

1992

- Basic Science Training for Surgical Residents: Immunology and Transplantation, 2 lectures
- BIO 129 Cancer Biology, 2 x 1h lectures
- BIO 195/196 Undergraduate Independent Study

1993

- BIO 129 Cancer Biology, 2 x 1h lectures
- Basic Science Training for Surgical Residents: Immunology and Transplantation, 2 lectures
- BIO 195/196 Undergraduate Independent Study

1994

- BIO 129 Cancer Biology, 2 x 1h lectures
- Basic Science Training for Surgical Residents: Immunology and Transplantation, 2 lectures

- BIO 195/196 Undergraduate Independent Study

1995

- BIO 129 Cancer Biology, 2 x 1h lectures
- Bio-Med 129A. Brown University Cancer Biology Program at Pfizer Pharmaceutical Co., Groton, CT. 3 x 3hr lectures
- Basic Science Training for Surgical Residents: Immunology and Transplantation, 2 lectures
- BIO 195/196, Undergraduate Independent Study

1996

- BIO 129 Cancer Biology, 2 x 1h lectures
- BIO 227 Protein Trafficking and Processing, 1 lecture
- Basic Science Training for Surgical Residents: Immunology and Transplantation, 2 lectures
- Bio-Med 195/196 Undergraduate Independent Study

1997

- BIO 129 Cancer Biology, 2 x 1h lectures
- BIO 227:Protein Trafficking and Processing, 1 lecture
- Basic Science Training for Surgical Residents: Immunology and Transplantation, 2 lectures
- BIO 195/196 Undergraduate Independent Study

1998

- BIO 129 Cancer Biology, 2 x 1h lectures
- BIO 227 Protein Trafficking and Processing, 1 lecture
- Basic Science Training for Surgical Residents: Immunology and Transplantation, 2 lectures
- BIO 195/196 Undergraduate Independent Study

1999

- BIO 284 Topics in Pathobiology: Molecular Mechanisms in Cancer
Co-Course Leader with Prof. Frackelton, 14 2h weekly sessions.
- BIO 129 Cancer Biology, 2 x 1h lectures
- BIO 227 Protein Trafficking and Processing, 1 lecture
- BIO 195/196 Undergraduate Independent Study
- BIO 295/296 Graduate Independent Study

2000

- BIO 129 Cancer Biology, 2 x 1h lectures
- BIO 195/196 Undergraduate Independent Study
- BIO 295/296 Graduate Independent Study

2001

- BIO 284 Topics in Pathobiology: Molecular Mechanisms in Cancer
Co-Course Leader with Prof. Frackelton, 14 2h weekly sessions.
- BIO 129 Cancer Biology, 2 lectures
- BIO 195/196 Undergraduate Independent Study
- BIO 295/296 Graduate Independent Study

2002

- BIO 129 Cancer Biology, 2 x 1h lectures
- BIO 129A. Brown University Cancer Biology Program at Pfizer Pharmaceutical Co., Groton, CT. 3 x 3h lectures.
- BIO 195/196 Undergraduate Independent Study
- BIO 295/296 Graduate Independent Study

2003

- BIO 152 Innate Immunity, 1 lecture
- BIO 129 Cancer Biology, 2 x 1h lectures
- BIO 195/196 Undergraduate Independent Study
- BIO 295/296 Graduate Independent Study

2004

- BIO 152 Innate Immunity, 1 lecture
- BIO 129 Cancer Biology, 2 x 1h lectures
- BIO 195/196 Undergraduate Independent Study
- BIO 295/296 Graduate Independent Study

2005

- BIO 152 Innate Immunity, 1 lecture
- BIO 129 Cancer Biology, 2 x 1h lectures
- BIO 285 Introduction to Research in Pathobiology, 1lecture
- BIO 195/196 Undergraduate Independent Study
- BIO 295/296 Graduate Independent Study

2006

- BIO 129 Cancer Biology, 2 x 1h lectures
- BIO 285 Introduction to Research in Pathobiology, 1lecture
- BIO 195/196 Undergraduate Independent Study
- BIO 295/296 Graduate Independent Study

2007

- BIO 052, Immunology, 2 x 1h lectures
- BIO 285 Introduction to Research in Pathobiology, 1lecture
- BIO 195/196 Undergraduate Independent Study
- BIO 295/296 Graduate Independent Study

2008

- BIO 052 Immunology, 2 x 1h lectures.
- BIO 284 Topics in Pathobiology: Cell Biology
Course Director, 14 weekly 2h sessions.
- BIO 152. Innate Immunity, 1 lecture
- BIO 264 Microbial Pathogenesis, 1 x 2h lecture
- BIO 129A. Brown University Cancer Biology Program at Pfizer Pharmaceutical Co., Groton, CT 3 x 3h lectures
- BIO 285 Introduction to Research in Pathobiology, 1lecture
- BIO 195/196 Undergraduate Independent Study
- BIO 295/296 Graduate Independent Study

2009

- BIO 052 Immunology, 2 x 1h lectures.
- BIO 152 Innate Immunity, 1 lecture
- BIO 155 Biology of Emerging Microbial Diseases, 2 x 1h lectures
- BIO 264 Microbial Pathogenesis, 1 x 2h lecture
- BIO 195/196 Undergraduate Independent Study
- BIO 295/296 Graduate Independent Study
- IMSD Module: “How to design an effective thesis” (4 x 2h meetings).

2010

- BIO 284 Topics in Pathobiology: Cell Biology
Course Director, 14 weekly 2h sessions.
- BIO 052 Immunology, 2 x 1h lectures.
- BIO 152 Innate Immunity, 1 lecture
- BIO 195/196 Undergraduate Independent Study
- BIO 295/296 Graduate Independent Study
- Responsible Conduct in Research, Division of Biology and Medicine Training Sequence, 1 lecture
- IMSD Module: “*How to design an effective thesis*” (4 x 2h meetings).

2011

- BIO 052 Immunology, 2 x 1h lectures.
- BIO 152 Innate Immunity, 1 lecture
- BIO 053A. Brown University Cancer Biology Program at Pfizer Pharmaceutical Co., Groton, CT. 1 x 3h lecture
- BIO 155 Biology of Emerging Microbial Diseases, 2 x 1h lectures
- BIO 195/196 Undergraduate Independent Study
- BIO 295/296 Graduate Independent Study
- IMSD Module: “*How to design an effective thesis*” (4 x 2h meetings).

2012

- BIO 052 Immunology, 2 x 1h lectures
- BIO 152 Innate Immunity, 1 lecture

- BIO 155 Biology of Emerging Microbial Diseases, 2 x 1h lectures
- BIO 195/196 Undergraduate Independent Study
- BIO 295/296 Graduate Independent Study
- IMSD Module: “*How to design an effective thesis*” (4 x 2h meetings).

2013

- BIO 052 Immunology, 2 x 1h lectures
- BIO 152 Innate Immunity, 1 lecture
- BIO 195/196 Undergraduate Independent Study
- BIO 295/296 Graduate Independent Study

2014

- ENGIN 2910 “Cancer Nanotechnology”, 1 lecture
- BIO 052 Immunology, 2 x 1h lectures
- BIO 152 Innate Immunity, 1 lecture

2015-present

- BIO 052 Immunology, 2 x 1h lectures
- BIO 152 Innate Immunity, 1 lecture

UNDERGRADUATE/MEDICAL STUDENTS TRAINED:

Linda Davis-Griffin, 1992	Paul Frake, 2005*†
Eric W. Fleegler, 1993*†	Manuel Lam, 2005#
Noel Gerald, 1993	Leon Cushenberry, 2005+
Joseph E. Allen, 1993	Geraldine Abbey-Mensah, 2005
Ethan Hixson, 1993	Carlos Veras, 2006+
Paul Fitzpatrick, 1994*	Vivek Shenoy, 2007*†
Michael Youssef, 1995*	Kirsten Woods, 2007+
Jeff Girshman, 1995*	Brittany Goss, 2007+
Brett Lassen, 1995*	Ebenezer Asare, 2007
Jessica Hatfield, 1996*	Estefany Flores, 2008
Michael Noble, 1996*	Rye-Ji Kim, 2008*†
Raymond J. Gagne, 1997	Yolanda Ross, 2009+
Julie St. Onge, 1998	Clayton Alonso, 2009
Julian Wong, 1998*#	Annalisa Wilde, 2010*#@
Deepa Sehkar, 1998*	Edjoiner Philips, 2011+
Maya Vijayaraghavan, 1999*	Maggie Chung, 2012*†
Ammar Shaikhouni, 1999	Mia Waliszewski, 2012*
Davekumar Chandrasekaran, 2000*	Valentina Parisi, 2013*
Kathryn Esselen, 2001*	Allan Huang, 2014*#
Josiah Orina, 2003*+	Cole Morrisette, 2014, 2015
Anne Martin, 2003#	Riwaj Thapaliya, 2015#
Connie Lee, 2004*†	Brianna Drury, 2018
Ivy Ataska, 2004 +	Jessie Butler, 2019

*Completed Senior Honor Thesis

Undergraduate Teaching and Research Award Recipient
†PLME Summer Research Award Recipient
+Leadership Alliance
@Royce Recipient

MEDICAL/SURGICAL RESIDENTS TRAINED:

David Binion, M.D., PGY 3, 3/90-8/90, Resident, Dept. of Medicine, Rhode Island Hospital.
Shirley M. Madere, M.D., 6/92-5/93, PGY 2, Degree of Master of Medical Science
Michael C. Coburn, M.D., 6/93-6/95, Resident, Department of Surgery, Rhode Island Hospital.
Stephan Hofer, M.D., 5/97-11/97, Resident, Department of Surgery, University Hospital Groningen, Groningen, The Netherlands.
Mary Beth Harler, M.D., 6/96-7/98, Resident, Department of Surgery, Rhode Island Hospital.
Vassilli Tsikitis, M.D., 7/02-6/04, Resident, Department of Surgery, Rhode Island Hospital.
Heather Hanson, M.D., 7/05-7/06, Resident, Department of Surgery, Rhode Island Hospital.
Jill Johnstone, M.D., 7/07-6/09, Resident, Department of Surgery, Rhode Island Hospital
Dipan Patel, M.D., 7/08-7/10, Resident, Department of Surgery, Rhode Island Hospital
Nicolas Elisseou, M.D., 7/10-7/12, Resident, Department of Surgery, Rhode Island Hospital
Eliza Fox, M.D., 7/11-7/13, Resident, Department of Surgery, Rhode Island Hospital
Catherine Dickinson, M.D., 7/15-7/16, Resident, Department of Surgery, Rhode Island Hospital
Chelsea Ciambella, M.D., 7/18-7/20, Resident, Department of Surgery, RIH

GRADUATE STUDENT THESIS ADVISOR, Pathobiology Graduate Program:

Shirley Madere, MD. MMS, 1993

Thesis title: *“The Effects of Carrageenan-Induced Enterocolitis on Select Aspects of the Immune System and of Growth Factor Expression”*

Liz Lavigne, Ph.D. 6/99-2/04

Thesis Title: *“Assessment of the Biological Effects of Yeast Beta-Glucan on Human Neutrophil Function”*

Brian LeBlanc, Ph.D. 6/01-5/07

Thesis title: *“Effect of Beta-Glucan on Leukocyte Function”*

Courtnei Newsome, Ph.D. 6/07-5/10

Thesis title: *“Effects of Beta-Glucan on Sepsis and Endotoxemia”*

Xian O’Brien, Ph.D. 5/04-5/10

Thesis title: *“Innate Immune Functions of Human Polymorphonuclear Leukocytes as Mediated by the beta2 Integrin, CR3, and Modulated by Beta-Glucan, a Fungal Pathogen-Associated Molecular Pattern”*

Katie Heflin, Ph.D. 5/07-5/11

Thesis title: *“The Effects of Extracellular Matrix Proteins and Fungal Beta-Glucan on CR3 Structure, Neutrophil Migration and Mechanosensing”*

Angel Byrd, Ph.D., 2/08-6/14

Project title: “*Regulation of Human Neutrophil Functions by the Integrin CR3-An Extracellular Matrix-Based Mechanism of Rapid Neutrophil Extracellular Trap Formation*”

Courtney Johnson, Ph.D., 9/10-6/15

Thesis title: “*Complement Receptor 3 Signaling Events During Neutrophil Function*”

Valentina Parisi, M.S., 9/14-6/15

Thesis title: “*Mechanisms of anti-Fungal Neutrophil Netosis*”

Hadley Witt, Ph.D.

Project title: “*Role of Mechanosensing in the Neutrophil anti-Fungal Response*”

GRADUATE STUDENT CO-ADVISOR, Brown University:

Patrick Oakes, Ph.D, Department of Physics, 2010

David Stout, Ph.D., Department of Engineering, 2014

Alexander Loosely, Ph.D., Department of Physics, 2014

Jennet Toyjanova, Ph.D., Department of Engineering, 2014

Lauren Hazlett, Department of Engineering, 2021

GRADUATE STUDENTS, Thesis Committee Member:

Susan Ching Tsai, 1996, MSc.

Gary Pien, 2001, Ph.D.

Aimee Herbert, 2006, Ph.D.

Nathan Miselis, 2007, Ph.D.

Julia Xu, 2007, Ph.D.

*Alma Zecevic, 2007, Ph.D

Amy Spaisman, 2008, MS

Mario Jiz, 2009, Ph.D.

Patrick Oakes, 2009, Ph.D.

*Tecla Temu, 2010, Ph.D.

*Leon Toussaint, 2011, Ph.D.

*Jennifer Linden, 2011, Ph.D

Lisa Longato, 2011, Ph.D.

Michael Cao, 2012, Ph.D

Alex Valm, 2012, Ph.D

*Meredith Crane, 2012, Ph.D.

Tania Nevers, 2012, Ph.D.

*Matthew Riolo, 2012, Ph.D.

*Nicolas Shubin, 2012, Ph.D.

Noelle Hutchins, 2013, Ph.D.

*Stacey-Ann Allen, 2013, Ph.D.

*Waihong Chung, 2013, Ph.D.

Sherida Rahaman, 2013, MS

JingJing Wang, 2013, Ph.D.

**indicates thesis committee chair*

Theresa Ramirez, 2013, Ph.D.

David Stout, 2014, Ph.D.

Hilary Magruder, 2014, Ph.D.

Caitlin Brown, 2014, Ph.D.

*Anika Toorie, 2015, Ph.D.

Bethany Biron, 2016, Ph.D.

Christina Andrews, 2018, MS

Zachary Wilson, 2019, Ph.D.

Courtney Mercadante, 2019, Ph.D.

Lauren Hazlett, 2020, Ph.D.

Verida Leandre, 2020, Ph.D.,

*Kayla Lee, 2020, Ph.D.,

Amanda Khoo, 2021, M.S.

Adrienne Parsons, 2021, Ph.D

Hadley Witt, 2022, Ph.D.,

Jessica Scales, 2023, Ph.D.,

Anders Ohlman, 2023, Ph.D.

Tina Hinman, 2023, Ph.D.

Collin Ganser, current

Jacqueline Howells, current

Alex Markowski, current

Alex Hruska, current

SABBATICAL SPONSOR

Leonard E. Gerber, Ph.D., Professor of Food Science and Nutrition, University of Rhode Island, 1996.

Roberto Spisni, M.D., Visiting Professor, Department of Surgery, University of Pisa, Italy, 1997.

SERVICE TO RHODE ISLAND HOSPITAL

1995	Research Associate Search Committee Department of Surgery Brown University
1996-2009	Member, Recombinant DNA Committee Rhode Island Hospital
2015-2016	Chair, Faculty Search Committee Department of Surgery
2015-present	Member, Promotions Committee Department of Surgery

SERVICE TO BROWN UNIVERSITY

1997	Junior Faculty Development Workshop Planning Committee Brown University
1997	Working Group on Medical Faculty Issues Faculty Executive Council Ad Hoc Committee Brown University
1998-2001	Member, Medical Faculty Executive Committee Brown University
1998-2000	Discussion Leader, Faculty Development Workshop Brown University
1998-2000	Teaching Scholars Committee Beginning Faculty Mentoring Program Brown University
2000-2005	Webmaster Pathobiology Graduate Program
2001-2004	Chair, Admissions Committee Pathobiology Graduate Program
2002-2019	Steering Committee

	Pathobiology Graduate Program
2002-2006	Associate Director Pathobiology Graduate Program
2004-2006	Brown/Marine Biological Laboratories Academic Oversight Committee
2005-2007	Admissions Committee MD/PhD Program Brown Medical School
2006-2018	Summer Research Assistantship Review committee
2010-2012	Brown University Advisory Committee for Honorary Degrees
2010-2019	Co-Director Pathobiology Graduate Program
2010-2016	Pathobiology faculty liaison to the Sheridan Center
2012-2013	BioMed Strategic Planning Committee
2016-2017	Frank Fellowship Selection Committee

REVIEWER

GRANTS:

NIH	Study Section Member, Center for Scientific Review Experimental Therapeutics Special Emphasis Panel 1999-2000
VA	Veterans Administration Merit Awards 1999-2003
NIH	Study Section Member, NHLBI, ZHL1 CSR-R Acute Lung Injury SCCOR February, 2003
NIH	Ad Hoc Oral Biology and Medicine SS-1 March, 2007-8

NIH	SEP ZRG1 SBIB-E March, 2009
Technion-Israel Institute Of Technology	Ad Hoc October, 2012
NIH	Ad Hoc SEP ZRG1 Small Business: Biological Chemistry, Biophysics and Drug Discovery October, 2012
Austrian Science Fund	Ad Hoc February, 2014
NIH	Ad Hoc Macromolecular Interactions in Cells March, 2014
NIH	Ad Hoc SEP ZRG1 VH-N Vascular and Hematology SEP August, 2015
NIH	Ad Hoc IMST10 Accelerating Translation of Glycoscience March, 2016
NIH	Ad Hoc ZGM1 MIRA for Early Stage Investigators March, 2019

PEER-REVIEW JOURNALS:

Reviewer:

Journal of Immunology, Journal of Leukocyte Biology, Journal of Surgical Research, Cancer, Journal of Biological Chemistry, Cancer Research, Hepatology, Biochemical Pharmacology, Journal of Clinical Investigation, American Journal of Physiology, BioTechnology, Journal of Immunological Methods, Journal of Infectious Diseases, American Journal of Pathology, SHOCK, International Journal of Parasitology, Transplantation International, Blood, Clinical Vaccine and Immunology, BiochemBiophysACTA, Infection and Immunity, Integrative Biology, PLOS one, PLOSp pathogens, Scientific Reports.

COMMUNITY SERVICE

1999-2001	Mentor, Urban Collaborative Accelerated Program Providence, RI
2003-4	Mentor, School to Career Program St. Mary Academy-Bay View
2007	Mentor, Brittany Goss Casey Family Services Providence, RI
2007	Mentor, Mary Markey, Hope High School Biology Teacher Brown Summer Research Program GK-12
2013-2015	Mentor, Wei Li, East Greenwich High School Valectorian First Place, RI State Science Fair Finalist, Intel International Science & Engineering Fair Third Place, Junior Science & Humanities Symposium, NE regionals