

## CURRICULUM VITAE

**Jorge Eusebio Albina, M.D.**

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Rhode Island Hospital  
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### **EDUCATION:**

M.D., 1972  
Universidad Nacional de La Plata,  
La Plata, Buenos Aires, Argentina

### **POSTGRADUATE TRAINING:**

1983 - 1984  
Fellow  
Surgery, Nutrition and Metabolism,  
Department of Surgery  
Rhode Island Hospital  
Providence, RI

1982 - 1983  
Fellow  
Nutrition and Metabolism,  
Harrison Department of Surgical Research  
University of Pennsylvania  
Philadelphia, PA

1978 - 1979  
Research Fellow  
Nutritional Support Service,  
Letterman Army Medical Center  
San Francisco, CA

1972 - 1975  
Surgeon in Training  
Hospital Interzonal General  
Mar del Plata, Argentina

**POSTGRADUATE HONORS AND AWARDS:**

2012	Illustrious Graduate Faculty Award The Governing Board, Faculty of Medical Sciences Universidad Nacional de La Plata La Plata, Buenos Aires, Argentina
2008	Outstanding Teaching Faculty Award Program in Surgery Alpert Medical School of Brown University Providence, RI
2001	Dean's Teaching Excellence Award Bio 282: Pathophysiology-Nutrition Medicine and Biological Sciences Brown Medical School Providence, RI
2000	Rhode Island Dietetic Association 24 Carrot Award Providence, RI
1993 - 1994	Faculty Teaching Award Program in Surgery Brown Medical School Providence, RI
1991	Masters Degree <i>ad eundem</i> Brown University Providence, RI
1973	Mar del Plata Society of Surgeons Award Mar del Plata, Argentina
1972	Province of Buenos Aires Award Province of Buenos Aires, Argentina
1972	A.C. Freindenberger Award University of La Plata, Argentina

**PROFESSIONAL LICENSES AND BOARD CERTIFICATION:**

Medical License:	Rhode Island 6274 Date awarded: 1983 - present
Controlled Substances License:	Rhode Island CMD 006274 Date awarded: 1983 – present
Federal Controlled Substances License:	AA2407939 Date awarded: 1983 - present

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**SPECIALTY CERTIFICATION:**

1986

American Board of Nutrition

1975

General Surgery  
Province of Buenos Aires, Argentina

**ACADEMIC APPOINTMENTS:**

1995 - present

Professor of Surgery  
Alpert Medical School of Brown University  
Providence, RI

1990 - 1995

Associate Professor of Surgery  
Brown University Program in Medicine  
Providence, RI

1984 - 1990

Assistant Professor of Surgery  
Department of Surgery  
Brown University Program in Medicine  
Providence, RI

**HOSPITAL APPOINTMENTS:**

1994 - present

Director  
Division of Surgical Research  
Department of Surgery  
Rhode Island Hospital  
Providence, RI

1991 - 1994

Acting Director  
Division of Surgical Research  
Department of Surgery  
Rhode Island Hospital  
Providence, RI

1990 - present

Director  
Nutritional Support Service  
Department of Surgery  
Rhode Island Hospital  
Providence, RI

1990 - present

Consulting Staff  
Division of General Surgery  
Miriam Hospital  
North Providence, RI

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1987 - 1990	Associate Director Nutritional Support Service Department of Surgery Rhode Island Hospital Providence, RI
1987 - 2000	Courtesy Staff Department of Surgery Roger Williams Hospital Providence, RI
1984 - 1987	Assistant Director Nutritional Support Service Department of Surgery Rhode Island Hospital Providence, RI
1984 - 1990	Director Nutritional Support Service Department of Surgery Miriam Hospital North Providence, RI
1979 - 1982	Chief Enteral & Parenteral Nutrition Unit Department of Surgery Hospital Interzonal General Mar Del Plata, Argentina
1975 - 1982	Assistant Staff Surgeon Department of Surgery Hospital Interzonal General Mar del Plata, Argentina

**OTHER APPOINTMENTS:**

2013	Scientific Reviewer Medical Research Council Swindon, United Kingdom
2011	Scientific Reviewer National Institutes of Health Wound Healing Research Center
2010	Scientific Reviewer National Institutes of Health NIGMS- ZGM1-BRT-5

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2009	Director-at-Large Wound Healing Society
2006	Member Ad Hoc JPEN Editor Search Committee Journal of Parenteral Nutrition
2005	Scientific Reviewer National Institutes of Health NIGMS/NIH/DHHS Wound Healing
2001 - 2005	Member Surgery, Anesthesiology and Trauma Study Section (SAT) National Institutes of Health
2000 - 2001	Ad Hoc Reviewer Surgery, Anesthesiology and Trauma Study Section (SAT) National Institutes of Health
1998	Scientific Reviewer Research Service Merit Review Office of External Reviews Department of Veterans Affairs
1998	Site Review Consultant National Institutes of Health NIGMS-SEP-TB/4-8-0070
1997	Site Review Consultant National Institutes of Health NIGMS-SEP-SM/7-0083
1996	Ad Hoc Grant Reviewer National Cancer Institute
1994	Ad Hoc Reviewer National Institutes of Health National Institute of Arthritis and Musculoskeletal and Skin Diseases Wound Healing

**EDITORIAL POSITIONS:**

1998 - 2001                      Editorial Board  
                                         Shock  
1994 - 2005                      Editorial Board  
                                         Journal of Parenteral and Enteral Nutrition

**REVIEWER:**

American Journal of Pathology  
American Journal of Physiology: Cell Physiology  
American Journal of Reparatory Cell and Molecular Biology  
Biochemical Journal  
British Journal of Cancer  
Cancer  
Cancer Research  
Cellular Immunology  
Clinical Science  
Endocrinology & Metabolism  
FASEB Journal  
Hypertension  
Journal of Clinical Investigation  
Journal of Immunology  
Journal of Leukocyte Biology  
Journal of Parenteral and Enteral Nutrition  
Metabolism, Clinical and Experimental  
Pathobiology  
Proceedings of the National Academy of Sciences, USA (PNAS)  
Shock  
Surgery  
Transplantation  
Wound Repair and Regeneration

**HOSPITAL / UNIVERSITY COMMITTEES:**

2008                                  Search Committee  
                                         Inflammation Research Scientist  
                                         Rhode Island Hospital / Brown University  
  
2008                                  Search Committee  
                                         Chair, Department of Molecular Microbiology & Immunology  
                                         Rhode Island Hospital / Brown University  
  
2007                                  Search Committee  
                                         Pediatric Surgeon  
                                         Rhode Island Hospital / Brown University  
  
2006                                  Chair  
                                         Search Committee  
                                         Pancreatic and Hepatobiliary Surgeon  
                                         Rhode Island Hospital / Brown University

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2005	Internal Executive Committee (IEC) COBRE Center for Cancer Research Development Rhode Island Hospital
2004 - 2007	Medical Faculty Executive Committee Brown University
2003 - present	Chair Organizing Committee Annual "Advances in Inflammation Research" Symposium
2003	Faculty Development Workshop on Promotions Brown Medical School
2002 - present	Surgical Grand Rounds Curriculum Committee The Warren Alpert Medical School of Brown University
2002	Search Committee Assist./Assoc. Professor Division of Pediatric Surgery, Dept. of Surgery, Brown Medical School
2000	Chair Strategic Planning Task Force Committee Brown University Center for Immunology, Infection and Injury
2000 - present	Chair Armand D. Versaci Research Scholar in Surgical Sciences Award Committee The Warren Alpert Medical School of Brown University
2000	Search Committee Breast/Oncology Surgeon Rhode Island Hospital
2000	Search Committee Chairman of Surgery Brown Medical School
1999	Armand D. Versaci Research Scholar in Surgical Sciences Award Committee Brown Medical School
1998	Thesis Defense Committee University of Antioquia School of Medicine Medellín, Colombia

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1995 - present	Research Advisory Committee Lifespan Providence, RI
1995 - present	Departmental Promotions and Appointments Committee Department of Surgery The Warren Alpert Medical School of Brown University
1995	Chair Search Committee Research Associate Department of Surgery Brown University
1994-1995	Research Advisory Committee Rhode Island Hospital
1994	Radiation Safety Committee Rhode Island Hospital
1993-1995	Steering Committee M.D./ Ph.D. Program Brown University
1993	Search Committee Peripheral Vascular Surgeon Miriam Hospital
1992	Clinical Advisory Group Search Committee Chairman of Surgery Rhode Island Hospital
1992	Search Committee Staff Surgical Oncologist Roger Williams Hospital
1989 - present	Chair Medical Diet Committee Rhode Island Hospital
1989	Infection Control Committee Rhode Island Hospital
1987	Nutrition Committee Roger Williams Hospital
1986 - 1990	Animal Care Committee Miriam Hospital

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1986 - 1990 Patient Care Committee  
Miriam Hospital

1984 - 1990 Chair (1985-1990), Nutrition Committee  
Miriam Hospital

#### **MEMBERSHIPS IN SOCIETIES:**

1993 - 2012 Surgical Infection Society  
1993 - present Society of University Surgeons  
1993 - present Society for Leukocyte Biology  
1990 - present Hellenic Society of Parenteral and Enteral Nutrition, Honorary Member  
1989 - present Wound Healing Society  
1988 – present Association for Academic Surgery  
1984 - present Rhode Island Medical Society  
1992 - 2002 American Society for Cell Biology  
1993 - 2011 Surgery Biology Club III, American College of Surgeons  
1988 - 2012 American Society for Nutrition  
1988 - 1998 American Institute of Nutrition  
1988 - 2011 Shock Society  
1985 - 1997 New York Academy of Sciences  
1984 - 2005 American Medical Association  
1979 - 1989 Society for Parenteral Alimentation  
1978 - 2011 American Society for Parenteral & Enteral Nutrition  
(1999-Clinical Guidelines Task Force)  
1975 - 1982 Mar del Plata (Argentina)  
Society for Surgeons

#### **PEER-REVIEWED PUBLICATIONS:**

1. **Albina, J.E.** Fat emulsions for parenteral use. *Medicina (Buenos Aires)* 40:331-334, 1980.
2. Scott, R.L., **Albina, J.E.** and Caldwell, M.D. Effects of hypocaloric dextrose and amino acids on body composition and nitrogen balance in rats. *Journal of Parenteral and Enteral Nutrition* 6:489-495, 1982.
3. Shearer, J., Morris, A., **Albina, J.E.** and Caldwell, M.D. Effect of starvation on the local and systemic metabolic effects of the lambda-carrageenan wound. *American Journal of Surgery* 147:456-462, 1984.
4. Caldwell, M.D., Shearer, J., Morris, A. Mastrofrancesco, B., Henry, W., and **Albina, J.E.** Evidence for aerobic glycolysis in lambda-carrageenan-wounded skeletal muscle. *Journal of Surgical Research* 37:63-68, 1984.
5. **Albina, J.E.**, Jacobs, D., Melnik, G., Settle, R.G., Stein, T.P., Guy, D., Stephenson, R.L. and Rombeau, J.L. Nitrogen utilization from elemental diets. *Journal of Parenteral and Enteral Nutrition* 9:189-195, 1985.
6. Jacobs, D., Settle, R., Trerotola, F., **Albina, J.**, Wolf, G. and Rombeau, J.L. Detection of total parenteral nutrition-induced fatty liver infiltration in the rat by *in vitro* proton nuclear magnetic resonance. *Journal of Parenteral and Enteral Nutrition* 10:177-183, 1986.

7. **Albina, J.E.**, Shearer, J., Mastrofrancesco, B. and Caldwell, M.D. Amino acid metabolism after lambda-carrageenan injury to rat skeletal muscle. *American Journal of Physiology* 250:E24-E30, 1986.
8. **Albina, J.E.**, Henry, W., King, P., Shearer, J., Mastrofrancesco, B., Goldstein, L. and Caldwell, M. Glutamine metabolism in rat skeletal muscle wounded with lambda-carrageenan. *American Journal of Physiology* 252:E49-E56, 1987.
9. **Albina, J.E.**, Mills, C., Barbul, A., Thirkill, C., Henry, W., Mastrofrancesco B. and Caldwell, M. Arginine metabolism in wounds. *American Journal of Physiology* 254:E459-E467, 1988.
10. **Albina, J.E.**, Stone, W.M., Bates, M. and Felder, M.E. Catastrophic weight loss after vertical banded gastroplasty: malnutrition and neurologic alterations. *Journal of Parenteral and Enteral Nutrition* 12:619-620, 1988.
11. **Albina, J.E.**, Caldwell, M.D. and Henry, W., Mills, C. Regulation of macrophage functions by L-arginine. *Journal of Experimental Medicine* 169:1021-1029, 1989.
12. Winkler, M.F., Gerror, S.A., Pomp, A. and **Albina, J.E.** Use of retinol-binding protein and prealbumin as indicators of the response to nutrition therapy. *Journal of the American Dietetic Association* 89:684-687, 1989.
13. Pomp, A., Caldwell, M.D. and **Albina, J.E.** Subcutaneous infusion ports for administration of parenteral nutrition at home. *Surgery, Gynecology and Obstetrics* 169:329-333, 1989.
14. Winkler, M.F., Pomp, A., Caldwell, M.D. and **Albina, J.E.** Transitional feeding: the relationship between nutritional intake and plasma protein concentrations. *Journal of the American Dietetic Association* 89:969-970, 1989.
15. **Albina, J. E.**, Mills, C.D., Henry, W.L. and Caldwell, M.D. Regulation of macrophage physiology by L-arginine: Role of the oxidative L-arginine deiminase pathway. *Journal of Immunology* 143:3641-3646, 1989.
16. Clark, D.D., **Albina, J.E.** and Chazan, J.A. Subclavian vein stenosis and thrombosis: A potential serious complication in chronic hemodialysis patients. *American Journal of Kidney Diseases* 15:265-268, 1990.
17. Mills, C.D., Pricolo, V.E., **Albina, J.E.** and Caldwell, M.D. Concomitant macrophage activation and fibroblast/lymphocyte inhibition by wound fluid: The "arginine-deficiency of inflammation" is a partial explanation. *Prog. Clin. Biol. Res.* 365:193-203, 1991.
18. **Albina, J.E.**, Mills, C.D., Henry, W.L. and Caldwell, M.D. Temporal expression of different pathways of L-arginine metabolism in healing wounds. *Journal of Immunology* 144:3877-3880, 1990.
19. **Albina, J.E.** and Henry, W.L., Jr. Suppression of lymphocyte proliferation through the nitric oxide synthesizing pathway. *Journal of Surgical Research*, 50:403-409, 1991.
20. **Albina, J.E.**, J. A. Abate and W. L. Henry, Jr. Nitric oxide production is required for murine resident peritoneal macrophages to suppress mitogen-stimulated T-cell proliferation. Role of IFN-gamma in the induction of the nitric oxide-synthesizing pathway. *Journal of Immunology*, 147:144-148, 1991.
21. Sawicky, C.P., Nippo, J., Winkler, M.F. and **Albina, J.E.** Adequate energy intake and improved prealbumin concentration as indicators of the response to total parenteral nutrition. *Journal of the American Dietetic Assn.*, 92:1266-1268, 1992.
22. **Albina, J.E.**, Abate, J.A. and Mastrofrancesco, B. Role of ornithine as a proline precursor in healing wounds. *Journal of Surgical Research* 55:97-102, 1993.

23. **Albina, J.E.**, Cui, S., Mateo, R.B. and Reichner, J.S. Nitric oxide-mediated apoptosis in murine peritoneal macrophages. *Journal of Immunology* 150:5080-5085, 1993.
24. **Albina, J.E.**, Mastrofrancesco, B. Modulation of glucose metabolism in macrophages by products of nitric oxide synthase. *American Journal of Physiology* 264:C1594-C1599, 1993.
25. **Albina, J.E.**, Gladden, P. and Walsh, W.R. Detrimental effects of an omega-3 fatty acid-enriched diet on wound healing. *Journal of Parenteral and Enteral Nutrition*, 17:519-521, 1993.
26. McCartney-Francis, N., Allen, J.B., Mizel, D.E., **Albina, J.E.**, Xie, Q.W., Nathan, C.F. and Wahl, S.M. Suppression of arthritis by an inhibitor of nitric oxide synthase. *Journal of Experimental Medicine*, 178:749-754, 1993.
27. Cui, S., Reichner, J.S., Mateo, R.B. and **Albina, J.E.** Activated murine macrophages induce apoptosis in tumor cells through nitric oxide-dependent or -independent mechanisms. *Cancer Research* 54:2462-2467, 1994.
28. Mateo, R.B., Reichner, J.S. and **Albina, J.E.** Interleukin-6 activity in wounds. *American Journal of Physiology* 266:R1840-1844, 1994.
29. **Albina, J.E.** Nutrition and wound healing. *Journal of Parenteral and Enteral Nutrition* 18:367-376, 1994.
30. Mateo, R.B., Reichner, J.S., Mastrofrancesco, B., Kraft-Stolar, D. and **Albina, J.E.** Impact of nitric oxide on macrophage glucose metabolism and glyceraldehyde-3-phosphate dehydrogenase activity. *American Journal of Physiology* 268:C669-C675, 1995.
31. Mateo, R.B. and **Albina, J.E.** Production of nitric oxide from citrulline by wound-derived macrophages. *Surgical Forum* 45:690-692, 1994.
32. **Albina, J.E.** and Reichner, J.S. Nitric oxide in inflammation and immunity. *New Horizons* 3:46-64, 1995.
33. **Albina, J.E.**, Henry, W.L., Jr., Mastrofrancesco, B. and Reichner, J.S. Macrophage activation by culture in an anoxic environment. *Journal of Immunology* 155:4391-4396, 1995.
34. **Albina, J.E.** On the expression of nitric oxide synthase by human macrophages. Why no NO? (Review) *Journal of Leukocyte Biology* 58:643-649, 1995.
35. Liu, Z-Z, Cui, S., Billiar, T.R., Dorko, K., Halfter, Geller, D.A., Michalopoulos, G., Beger, H.G., **Albina, J.E.** and Nussler, A.K. Effects of hepatocellular mitogens on cytokine-induced nitric oxide synthesis in human hepatocytes. *Journal of Leukocyte Biology* 60:382-388, 1996.
36. **Albina, J.E.**, Martin, B-A., Henry, W.L., Jr., Louis, C.A. and Reichner, J.S. B cell lymphoma-2 transfected P815 cells resist reactive nitrogen intermediate-mediated macrophage-dependent cytotoxicity. *Journal of Immunology* 157:279-283, 1996.
37. Mateo, R.B., Reichner, J.S. and **Albina, J.E.** NO is not sufficient to explain maximal cytotoxicity of tumoricidal macrophages against an NO-sensitive cell line. *Journal of Leukocyte Biology* 60:245-252, 1996.
38. Reichner, J.S., Mulligan, J.A., Palla, M.E., Hixson, D.C., **Albina, J.E.** and Bland, K.I. IL-6 production by rat hepatocellular carcinoma cells is associated with metastatic potential but not with tumorigenicity. *Archives of Surgery* 131:360-365, 1996.

39. Reichner, J.S., Mulligan, J.A., Spisni, R., Sotomayor, E.A., **Albina, J.E.**, and Bland, K.I. Effect of IL-6 overexpression on the metastatic potential of rat hepatocellular carcinoma cells. *Annals of Surgical Oncology* 5:279-286, 1997.
40. Louis, C.A., Reichner, J.S., Henry, W.L., Jr., Mastrofrancesco, B., Gotoh, T., Mori, M. and **Albina, J.E.** Distinct arginase isoforms expressed in primary and transformed macrophages: regulation by oxygen tension. *American Journal of Physiology* 274:R775-R782, 1998.
41. Winkler, M.F., Watkins, C.K. and **Albina, J.E.** Transitioning the nutrition support patient from the hospital to home. *Infusion*. April:39-44, 1998.
42. **Albina, J.E.** Letter to the Editor. Problems of total parenteral nutrition. *Archives of Surgery* 133:679-680, 1998.
43. Glynn, C.C., Greene, G.W., Winkler, M.F. and **Albina, J.E.** Predictive versus measured energy expenditure using limits-of-agreement analysis in hospitalized, obese patients. *Journal of Parenteral and Enteral Nutrition* 23:147-154, 1999.
44. Harler, M.B., Wakshull, E., Filardo, E.J., **Albina, J.E.**, and Reichner, J.S. Promotion of neutrophil chemotaxis through differential regulation of beta 1 and beta 2 integrins. *Journal of Immunology*. 162:6792-6799, 1999.
45. Louis, C.A., Mody, V., Henry, W.L., Jr., Reichner, J.S., and **Albina, J.E.** Regulation of arginase isoforms I and II by IL-4 in cultured murine peritoneal macrophages. *American Journal of Physiology*. 276:R237-R242, 1999.
46. Reichner, J.S., Meszaros, A.J., Louis, C.A., Henry, W.L., Jr., Mastrofrancesco, B., Martin, B.-A. and **Albina, J.E.** Molecular and metabolic evidence for the restricted expression of inducible nitric oxide synthase in healing wounds. *American Journal of Pathology* 154:1097-1104, 1999.
47. Nessel, C.C., Henry, W.L., Jr., Mastrofrancesco, B., Reichner, J.S., and **Albina, J.E.** Vestigial respiratory burst activity in wound-derived macrophages. *Am. J. Physiol.* 276:R1587-R1594, 1999.
48. Meszaros, A.J., Reichner, J.S., and **Albina, J.E.** Macrophage phagocytosis of wound neutrophils. *Journal of Leukocyte Biology* 65:35-42, 1999.
49. **Albina, J.E.**, Mastrofrancesco, B., and Reichner, J.S. Acyl phosphatase activity of NO-inhibited glyceraldehyde-3-phosphate dehydrogenase (GAPDH): a potential mechanism for uncoupling glycolysis from ATP in NO-producing cells. *Biochemical Journal* 341 (Pt.1):5-9, 1999.
50. Angele, M.K., Knöferl, M.W., Ayala, A., **Albina, J.E.**, Cioffi, W.G., Bland, K.I., and Chaudry, I.H. Trauma-hemorrhage delays wound healing potentially by increasing pro-inflammatory cytokines at the wound site. *Surgery* 126:279-285. 1999.
51. Campbell, W.A., Sah, D.E., Medina, M.M., **Albina, J.E.**, Coleman, W.B., and Thompson, N.L. TA1/LAT-1/CD98 light chain and system L activity, but not 4F2/CD98 heavy chain, respond to arginine availability in rat hepatic cells. Loss of response in tumor cells. *Journal of Biological Chemistry* 275:5347-5354. 2000.
52. Meszaros, A.J., Reichner, J.S., and **Albina, J.E.** Macrophage-induced neutrophil apoptosis. *Journal of Immunology*, 165:435-441, 2000.
53. Reichner, J.S., Fitzpatrick, P.A., Wakshull, E., and **Albina, J.E.** Receptor-mediated phagocytosis of rat macrophages is regulated differentially for opsonized particles and non-opsonized particles containing beta-glucan. *Immunology*, 104:198-206, 2001.

54. **Albina, J.E.**, Mastrofrancesco, B., Vessella, J.A., Louis, C.A., Henry, W.L., Jr., and Reichner, J.S. HIF-1 expression in healing wounds: HIF-1 $\alpha$  induction in primary inflammatory cells by TNF- $\alpha$ . *American Journal of Physiology*, 281:C1971-1977, 2001.
55. August, D., Teitelbaum D., **Albina, J.**, Bothe, A., Guenter, P., Heitkemper, M., Ireton-Jones, C., Mirtallo, J.M., Seidner, D., and Winkler, M. Critical care: Critical illness. A.S.P.E.N. Clinical Guidelines Taskforce. Guidelines for the use of parenteral and enteral nutrition in adult and pediatric patients. *Journal of Parenteral and Enteral Nutrition*. Nutrition, 26 supplement: 90SA-93SA, 2002.
56. Mahoney, E.J., Reichner, J.S., Mastrofrancesco, B., Henry, W.L., Jr., Robinson-Bostom, L., and **Albina, J.E.** Bacterial colonization and the expression of inducible nitric oxide synthase in murine wounds, *American Journal of Pathology*, 161:2143-2152, 2002.
57. **Albina, J.E.** and Reichner, J.S. Oxygen and the regulation of gene expression in wounds. *Wound Repair and Regeneration*, 11:445-451, 2003.
58. **Albina, J.E.** and Reichner, J.S. Detection of reactive oxygen intermediate production by macrophages. *Methods in Molecular Medicine*, 78:369-376, 2003.
59. Reichner, J.S. and **Albina, J.E.** Determination of the role of hypoxia-inducible factor 1 in wound healing. *Methods in Enzymology*, 381:527-538, 2004.
60. Tsikitis, V.L., Morin, N.A., Harrington, E.O., **Albina, J.E.**, and Reichner, J.S.  $\beta$ -glucan protects endothelial barrier function from activated neutrophils. *Journal of Immunology*, 173:1284-1291, 2004.
61. Tsikitis, V.L., **Albina, J.E.**, and Reichner, J.S.  $\beta$ -glucan affects leukocyte navigation in complex chemotactic gradients. *Surgery*, 136:384-389, 2004.
62. **Albina, J.E.**, Mahoney, E.J., Daley, J.M., Wesche, D.E., Morris, S.M., Jr. and Reichner, J.S. Macrophage arginase regulation by C/EBP $\beta$ . *Shock* 23:168-172, 2005
63. Daley, J.M., Reichner, J.S., Mahoney, E.J., Manfield, L., Henry, W.L., Jr., Mastrofrancesco, B., and **Albina, J.E.** Modulation of macrophage phenotype by soluble product(s) released from neutrophils. *Journal of Immunology* 174:2265, 2005.
64. Din, Y., Chung, C.-S., Newton, S., Chen, Y., Carlton, S., **Albina, J.E.**, and Ayala, A. Polymicrobial sepsis induces divergent effects on splenic and peritoneal dendritic cell function in mice. *Shock*, 22:137-144, 2005.
65. Daley, J.M., Ivanenko-Johnston, T., Reichner, J.S., and **Albina, J.E.** Transcriptional regulation of TNF- $\alpha$  production in neutropenia. *American Journal of Physiology: Regulatory, Integrative and Comparative Physiology* 288:R409-R412, 2005.
66. Chung, A.S., Guan, Y.-J., Yuan, Z.-L., **Albina, J.E.**, and Chin, Y.E. Ankyrin repeat and SOCS Box3 (ASB3) mediates ubiquitination and degradation of TNF Receptor-II. *Molecular and Cellular Biology* 25: 4716-4726, 2005.
67. LeBlanc, B.W., **Albina, J.E.** and Reichner, J.S. The effect of PGG- $\beta$ -glucan on neutrophil chemotaxis *in vivo*. *Journal of Leukocyte Biology* 79: 667-675, 2006. PMID: 16415173
68. Lavigne, L., **Albina, J.E.**, and Reichner, J.S. Beta-glucan is a fungal determinant for adhesion-dependent human neutrophil functions. *Journal of Immunology* 177(12): 8667-75, 2006. PMID: 17142767

69. Lavigne, L.M., O'Brien, X.M., Kim, M., Janowski, J. W., **Albina, J.E.**, and Reichner, J.S. Integrin engagement mediates the human PMN leukocyte response to a fungal pathogen-associated molecular pattern. *Journal of Immunology* 178:7276-7282, 2007. [PMID: 17513777](#)
70. Daley, J.M., Thomay, A., Connolly, M., Reichner, J. and **Albina, J.E.** Use of Ly6G-specific monoclonal antibody to deplete neutrophils in mice. *Journal of Leukocyte Biology* 83(1):64-70, 2008. [PMID: 17884993](#)
71. Xu, J., Reichner, J.S., Mastrofrancesco, B., Henry Jr., W., and **Albina, J.E.** Prostaglandin E<sub>2</sub> inhibits lipopolysaccharide-induced type I IFN (IFN $\beta$ ) production in murine J774A.1 macrophages. *Journal of Immunology* 180:2125-2131, 2008. [PMCID: PMC2396778](#)
72. Thomay, A.A., Daley, J.M., Sabo, E., Worth, P.J., Shelton, L.J., Reichner, J.S., and **Albina, J.E.** Disruption of interleukin-1 (IL-1) signaling improves the quality of wound healing. *American Journal of Pathology* 174:2129-2136, 2009. [PMCID: PMC2684178](#)
73. Daley, J.M., Brancato, S.K., Thomay, A.A., Reichner, J.S., and **Albina, J.E.** The phenotype of murine wound macrophages. *Journal of Leukocyte Biology* 87:59-67, 2010. [PMCID: PMC2801619](#)
74. Brancato, S.K., and **Albina, J.E.** Wound macrophages as key regulators of repair: Origin, phenotype and function. *American Journal of Pathology* 178(1):19-25, 2011 [PMCID: PMC3069845](#)
75. Brancato, S.K., Thomay, A.A., **Albina, J.E.**, Reichner, J.S., Sabo, E., and Daley, J.M. TLR4 signaling regulates the acute local inflammatory response to injury and the fibrosis/neovascularization of sterile wounds. *Wound Repair and Regeneration*, 21(4):624-633, 2013. [PMID: 23758142](#)
76. Crane M.J., Daley J.M., van Houtte O., Henry W.L., Brancato S.K., and **Albina J.E.** The monocyte to macrophage transition in the sterile wound. *PLoS ONE*, 9(1):e86660. doi:10.1371/journal.pone.0086660, 2014. [PMCID: PMC3899284](#)

#### **BOOKS / CHAPTERS:**

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2. **Albina, J.E.** Preoperative Nutritional Support. In: J.L. Rombeau and M.D. Caldwell (Ed.) *Clinical Nutrition: Parenteral Nutrition*, W.B. Saunders Company, Philadelphia, PA, pp. 370-379, 1986.
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**INVITED PRESENTATIONS:**

1. 1979 How to feed the hospitalized patient. Mar del Plata, Argentina.
2. 1979 Parenteral nutrition. Surgical Grand Rounds, Hospital Policlinico, La Plata, Argentina.
3. 1979 Parenteral nutrition. Surgical Grand Rounds, Hospital Fiorito Avellaneda, Argentina.
4. 1980 Fat emulsions in parenteral nutrition. Medical Society, La Plata, Argentina.
5. 1980 Nutrition support of the surgical patient. Surgical Grand Rounds, Hospital Interzonal, Mar del Plata, Argentina.
6. 1980 Parenteral nutrition in internal medicine. Medical Grand Rounds, Hospital Interzonal, Mar del Plata, Argentina.
7. 1980 Total parenteral nutrition. Buenos Aires, Argentina.
8. 1981 Enteral and parenteral nutrition. 2nd Nutrition Course, Buenos Aires, Argentina.
9. 1981 Malnutrition in the hospital-prevention and treatment. Hospital Policlinico, La Plata, Argentina.
10. 1981 Metabolic complications of parenteral nutrition. Surgical Grand Rounds, Balcarce, Argentina.
11. 1981 Nutrition in surgical practice. Medical Society, Buenos Aires, Argentina.
12. 1981 Nutrition therapy in gastrointestinal disease. Argentina Gastroenterologic Society, Buenos Aires, Argentina.
13. 1981 Team approach to nutritional support. Society of Surgeons, Mar del Plata, Argentina.
14. 1982 A comparison of the effects of fish protein and lactalbumin in nitrogen balance in tube fed monkeys (poster). ASPEN 7th Clinical Congress, Washington, DC.
15. 1982 Fluid and electrolyte therapy. Nutritional Support Conference, Rhode Island Hospital, Providence, RI
16. 1982 Nutrition and cancer. Society of Surgeons, Mar del Plata, Argentina.
17. 1982 Nutrition course lecturer. University of Pennsylvania School of Medicine, Philadelphia, PA
18. 1983 Advances in enteral nutrition. Nitrogen utilization. Surgical Grand Rounds, Hospital of the University of Pennsylvania, Philadelphia, PA.
19. 1983 Effects of starvation and wounding on glucose metabolism. 64th Annual meeting, New England Surgical Society, Bretton Woods, NH.
20. 1983 Identification of metabolic changes in the liver by *in vitro* nuclear magnetic resonance. European Society for Parenteral and Enteral Nutrition, Brussels, Belgium.
21. 1983 *In vitro* identification of carbon tetrachloride induced fatty liver infiltration by nuclear magnetic resource. Surgical Forum, 69th Annual Clinical Congress, American College of Surgeons, Atlanta, GA.
22. 1983 Metabolic assessment and nutritional management of the critically ill patient. Critical Care Symposium '83. American Heart Association, Providence, RI.
23. 1983 Nuclear magnetic resonance and methionine induced fatty liver infiltration (poster). Society of Magnetic Resonance in Medicine, San Francisco, CA.

24. 1983 Nutrition care delivery: Dynamics and economics. National Satellite Video Conference, Panel Member, Providence, RI.
25. 1983 Nutritional assessment. Family Medicine Grand Rounds, Memorial Hospital of Rhode Island, Pawtucket, RI.
26. 1983 Nutritional modifications for the respiratory patient. Seminar, RI Dietetic Assoc., Newport, RI.
27. 1984 Altered glucose metabolism in carrageenan wounded muscle: Effects of adrenalectomy. 7th Annual Conference on Shock, Toronto, ON, Canada.
28. 1984 Can starvation explain systemic effects of wounding? (poster) ASPEN 8th Clinical Congress, Las Vegas, NV
29. 1984 Evaluation of aerobic glycolysis in wounded tissue. ASPEN 8th Clinical Congress, Las Vegas, NV
30. 1984 Is all nonessential nitrogen equivalent? (poster). FASEB 68th Annual Meeting, St. Louis, MO.
31. 1984 Oxidative capacity of carrageenan wounded skeletal muscle (poster). FASEB 68th Annual Meeting, St. Louis, MO.
32. 1984 Pancreatic disease, a nutritional dilemma. Nutritional Support in GI Diseases, Rhode Island Dietetic Assoc., Newport, RI.
33. 1985 Branched chain amino acids in catabolic stress. Walter Reed Army Medical Center, Washington, DC
34. 1985 Glutamine metabolism in the carrageenan muscle wound (poster). FASEB 69th Annual Meeting, Anaheim, CA.
35. 1986 Amino acid metabolism in the lambda-carrageenan wounded muscle (poster). ASPEN 10th Clinical Congress, Dallas, TX
36. 1986 Changes in retinol binding protein and prealbumin during TPN. The American Dietetic Association, Las Vegas, NV
37. 1986 Glutamine metabolism in the healing wound. (poster) ASPEN 10th Clinical Congress, Dallas, TX
38. 1986 Intracellular glutamine and glutamine synthetase activity in wounded rat skeletal muscle. (poster) FASEB 70th Annual Meeting, St. Louis, MO.
39. 1986 Nutritional care of cancer patients. Rivero Foundation, Buenos Aires, Argentina.
40. 1986 Glutamine metabolism in healing wounds. Instituto de Gastroenterologia, Buenos Aires, Argentina.
41. 1986 Nutritional support in surgical practice. Centro Medico, Mar del Plata, Argentina.
42. 1986 Amino acid metabolism in wounds. Surgical Grand Rounds, Hospital Interzonal General, Mar del Plata, Argentina.
43. 1987 Arginase activity in wounds. (poster) FASEB 71st Annual Meeting Washington, DC.
44. 1987 Arginine metabolism in wounded tissue. (poster) 9th Clinical Congress Europea Society for Parenteral and Enteral Nutrition, Barcelona, Spain.
45. 1987 Arginine metabolism in wounds (poster). 2nd International Symposium on Tissue Repair, Tarpon Springs, FL.
46. 1987 Does wounded tissue regulate hepatic glucose production? Surgical Forum, 73rd Clinical Congress. American College of Surgeons, San Francisco, CA.

47. 1987 Seldinger technique for central venous catheter insertion (poster). 9th Clinical Congress, Europea Society for Parenteral and Enteral Nutrition, Barcelona, Spain.
48. 1987 Subcutaneous ports for home parenteral nutrition (poster). ASPEN 11th Clinical Congress, New Orleans, LA
49. 1987 Transitional feeding: The relationship between intake and plasma protein concentrations. The American Dietetic Association, Atlanta, GA.
50. 1988 Arginine metabolism in wounds. Surgical Grand Rounds, Rhode Island Hospital, Providence, RI.
51. 1988 Catheter related sepsis (poster). ASPEN 12th Clinical Congress, Las Vegas, NV
52. 1988 Energy expenditure in elderly TPN patients. The American Dietetic Association, San Francisco, CA.
53. 1988 TPN in patients with AIDS (poster). The IV International Conference on AIDS, Stockholm, Sweden.
54. 1988 Metabolic characteristics of injured tissue. 4th Argentine Congress on Parenteral and Enteral Nutrition, Buenos Aires, Argentina.
55. 1988 Advances in materials, nutrients and techniques on enteral and parenteral nutrition. 4th Argentine Congress on Parenteral and Enteral Nutrition, Buenos Aires, Argentina.
56. 1988 Effects of protein-calorie deprivation on organ-systems function. 4th Argentine Congress on Parenteral and Enteral Nutrition, Buenos Aires, Argentina.
57. 1988 Complications of enteral and parenteral nutrition. 4th Argentine Congress on Parenteral and Enteral Nutrition, Buenos Aires, Argentina.
58. 1988 Current thoughts on nutritional support. Hospital Pizivado de la Comunidad, Mar del Plata, Argentina.
59. 1988 Advances in parenteral nutrition. Hospital Interzonal General, Mar del Plata, Argentina.
60. 1989 An L-arginine deficient environment enhances resident macrophage metabolism functions and viability. FASEB 73<sup>rd</sup> Annual Meeting, New Orleans, LA.
61. 1989 Assessment of patients for nutritional support. Charlton Memorial Hospital, Fall River, MA.
62. 1989 Central venous access for acute and chronic parenteral nutrition. ASPEN 13th Clinical Congress, Miami, FL.
63. 1989 Major surgery in the elderly. ASPEN 13th Clinical Congress, Miami, FL.
64. 1989 Malnutrition in the hospitalized patient. Continuing Medical Education Series, Morton Hospital, Fall River, MA.
65. 1989 Normal nutritional requirements. Spring Clinical Day, Buffalo, NY.
66. 1989 Nutritional support in the 1990's. Surgical Grand Rounds, Filmore Hospital, Buffalo, NY.
67. 1989 Nutritional support in the hospital. Kent County Hospital, Warwick, RI.
68. 1989 Arginine metabolism in healing wounds. Seminar Series, Department of Physiology, Brown University, Providence, RI.
69. 1989 Total parenteral nutrition in surgical patients. Surgical Grand Rounds, Rhode Island Hospital, Providence, RI.

70. 1989 Regulation of macrophage physiology by L-arginine. The Royal Society, London, England.
71. 1989 Arginine metabolism in healing wounds. Hospital St.Antoine, Paris, France.
72. 1989 The oxidative L-arginine deiminase pathway in metabolic regulation. Surgical Research Seminar Series, Rhode Island Hospital, Providence, RI.
73. 1989 Arginine metabolism in the healing wound. Rhode Island Hospital Research Journal Club, Providence, RI.
74. 1989 Nutrition as a Necessary Adjunct in Therapy of Head and Neck Cancer. Head & Neck Oncology Lecture Series, Brown University, Providence, RI.
75. 1989 Jejunostomy tube feeding: Clinical indications, complications and outcome. (poster). American Dietetic Association, Kansas City, MO.
76. 1989 Mechanisms of wound healing. Dermatology Grand Rounds. Brown University, Providence, RI.
77. 1990 Enteral nutrition. Surgical Grand Rounds, Roger Williams Hospital, Providence, RI.
78. 1990 Total parenteral nutrition. Medical Grand Rounds. Engelwood Hospital, Engelwood, NJ.
79. 1990 Regulation of lymphocyte proliferation by arginine. Research Seminar, Miriam Hospital, Providence, RI
80. 1990 Role of arginine in the regulation of immune responses. Research seminar, Wellcome Laboratories, Beckenham, England.
81. 1990 Suppression of splenic lymphocyte mitogenesis associated with the expression of nitric oxide synthetase. 24th Annual Meeting, Association for Academic Surgery, Houston, TX.
82. 1990 Arginine metabolism in wounds - Research Seminar, M.D. Anderson Cancer Institute, Houston, TX.
83. 1990 Insertion of central venous catheter for TPN use and its complications. 2nd Post Graduate Course, The Hellenic Society of Parenteral and Enteral Nutrition, Patras, Greece.
84. 1990 Arginine. 2nd Post Graduate Course, The Hellenic Society of Parenteral and Enteral Nutrition, Patras, Greece.
85. 1990 Nutritional support in the hospitalized patient, Grand Rounds, Veterans Administration Medical Center and Roger Williams General Hospital, Providence, RI.
86. 1991 Overview of parenteral nutrition, Basics of nutritional support: II, Post Graduate Course #7. 15th Clinical Congress, American Society for Parenteral & Enteral Nutrition, San Francisco, CA.
87. 1991 Nutritional immunomodulation: Experimental or ready for clinical practice? Round Table, 15th Clinical Congress, American Society for Parenteral & Enteral Nutrition, San Francisco, CA.
88. 1991 Arginine regulation of inflammatory cell function. Brown Pulmonary Research Conference, Veterans Administration Medical Center, Providence, RI.
89. 1991 Nutritional assessment and support in head and neck patients with cancer. Fourth Annual Head and Neck Oncology Series, presented by Head and Neck Study Group, Brown University Program in Medicine, Brown Faculty Club, Providence, RI.

90. 1991 Advances in clinical nutrition. Surgical Grand Rounds, Rhode Island Hospital, Providence, RI.
91. 1991 Fundamentals of nutrition. Clinical Skills Workshop, Brown University Department of Surgery Core Clerkship in Surgery, Rhode Island Hospital, Providence, RI.
92. 1991 Nutritional support in the hospitalized patient. Curts Visiting Professorship, Dartmouth-Hitchcock Medical Center, Hanover, NH.
93. 1991 Role of nitric oxide in T-cell-dependent macrophage suppression of lymphocyte proliferation. Laboratory Research Conference, Rhode Island Hospital, Providence, RI.
94. 1991 Nutrition in the intensive care unit. Nursing Education Workshop, Rhode Island Hospital, Providence, RI.
95. 1991 Nutritional support in hospitalized patients. Surgical Grand Rounds, Memorial Hospital of Rhode Island, Pawtucket, RI.
96. 1991 Regulation of lymphocyte proliferation by arginine. Pathology Seminar, Roger Williams Medical Center, Providence, RI.
97. 1991 Dietary induction of bacterial translocation in the rat. 1991 Federation of American Societies for Experimental Biology meeting, Atlanta, GA.
98. 1991 Nutritional support in the hospitalized patient and home TPN program. New England Critical Care Seminar, St. Elizabeth's Hospital, Brighton, MA.
99. 1991 Regulation of inflammatory cell function through L-arginine. Physiology Seminar Series, Department of BioMedicine, Section of Physiology and Biophysics, Brown University, Providence, RI.
100. 1991 Effects of OKG on macrophage function. Société d'Exploitation des Laboratoires Jacques Logeais. Division of Surgical Research, Department of Surgery, Rhode Island Hospital, Providence, RI.
101. 1991 Nutritional support of the hospitalized patient. First Annual Nutrition symposium: Current Topics in Adult and Pediatric Nutritional Support. Department of Clinical Dietetics, George Auditorium, Rhode Island Hospital, Providence, RI.
102. 1991 Metabolic pathways. Residents Review Course, Department of Surgery, Rhode Island Hospital, Providence, RI.
103. 1991 Nutritional support of the hospitalized patient. Interns Noon Seminar. Department of Surgery, Rhode Island Hospital, Providence, RI.
104. 1991 Temporal expression of nitric oxide synthase (NOS) in post-endotoxin rat lung. Second International Meeting Biology of Nitric Oxide, London, England.
105. 1991 Cytokine network regulating macrophage-mediated suppression through nitric oxide synthase products. Second International Meeting Biology of Nitric Oxide, London, England.
106. 1991 The regulation of inflammatory cell function by L-arginine. Department of Biochemistry, University of Oxford, England.
107. 1991 Fundamentals of nutrition. Clinical Skills Workshops, Core Clerkship in Surgery, Brown University Department of Surgery, Rhode Island Hospital, Providence, RI.

108. 1991 Role of the nitric oxide synthesizing pathway in the regulation of immune responses. Annual Regional Meeting of the Northeast, Eastern New York, and Connecticut Valley Branches, American Society for Microbiology, Galilee, RI.
109. 1991 Cytokine network regulates macrophage suppressor activity. Immunology/Oncology Session. 25th Annual Meeting of the Association for Academic Surgery, Colorado Springs, CO.
110. 1991 The regulation of inflammatory cell function by L-arginine. Immunology Seminar Series, Biomedical Center, Brown University Campus, Providence, RI.
111. 1992 Fundamentals of nutrition. Clinical Skills Workshops, Core Clerkship in Surgery, Brown University Department of Surgery, Rhode Island Hospital, Providence, RI.
112. 1992 Intravenous access. Nutrition Support Lab. 16th Clinical Congress 6-Track Program, American Society for Parenteral and Enteral Nutrition, Orlando, FL.
113. 1992 Metabolism of wounds. Wound Healing in Nutrition. Physicians Workshop. 16th Clinical Congress 6-Track Program, American Society for Parenteral and Enteral Nutrition, Orlando, FL.
114. 1992 Nutritional support in the hospitalized patient. Nutrition Support Conference, Southern Maine Medical Center, Biddeford, ME.
115. 1992 Fluid and electrolyte problems. Medical Student Clinical Case Seminar, Department of Surgery, Rhode Island Hospital, Providence, RI.
116. 1992 Nutritional support in the hospitalized patient. Brown University Learning Community's American Health Series, Brown University, Providence, RI.
117. 1992 Nutritional support of the hospitalized patient. Grand Rounds, Department of Medicine, Roger Williams General Hospital, Providence, RI.
118. 1992 Nitric oxide regulation of immune cell function. Weekly Seminar, Human Nutrition Research Center on Aging at Tufts University. United States Department of Agriculture Building, Boston, MA.
119. 1992 Nutritional considerations in the ICU. Housestaff Noon Conference, Critical Care Medicine, The Miriam Hospital, Providence, RI.
120. 1992 Nutrition and wound healing. Dietitians in Nutrition Support National Conference. UCLA Conference Center, Los Angeles, CA.
121. 1992 Nutritional support of the inpatient. Residents' Noon Conference, Department of Medicine, Rhode Island Hospital, Providence, RI.
122. 1992 Glucose metabolism by macrophages. Alterations associated with the expression of NOS. XIV ESPEN Congress, Clinical Nutrition and Metabolism, Vienna, Austria.
123. 1992 Nutrition workshop. Clinical skills workshops, Brown University Department of Surgery Core Clerkship in Surgery. Rhode Island Hospital, Providence, RI.
124. 1992 Mechanisms of cell death. Rhode Island Hospital Research Journal Club, Providence, RI.
125. 1992 Nutrition and wound healing. Surgical Grand Rounds, Miriam Hospital, Providence, RI.
126. 1992 Wound healing. Basic Science in Surgery Course, Rhode Island Hospital, Providence, RI.

127. 1992 Surgical nutrition: Promises and realities. 21st Surgical Meeting, Province of Buenos Aires, Mar del Plata, Argentina.
128. 1992 Multiple system organ failure: Nutritional correlates. 21st Surgical Meeting Province of Buenos Aires, Mar del Plata, Argentina.
129. 1992 Nutrition and wound healing. Surgical Grand Rounds, Rhode Island Hospital, Providence, RI.
130. 1993 Nitric oxide mediated macrophage apoptosis. Surgical Research Seminar, The Miriam Hospital, Providence, RI.
131. 1993 Nutrition support in the hospitalized patient. The Selection, Assessment and Management of Prospective Parenteral Nutrition Patients, Continuing Medical Education Program, Landmark Medical Center, Woonsocket, RI.
132. 1993 Apoptosis vs. necrosis. Artificial Organs, Biomaterials and Cellular Technology Seminar. Division of Biology and Medicine, Brown University, Providence, RI.
133. 1993 Fundamentals of nutrition. Clinical Skills Workshop, Brown University Department of Surgery Core Clerkship in Surgery, Rhode Island Hospital, Providence, RI.
134. 1993 Nitric oxide and inflammatory cell metabolism. Endocrine Grand Rounds Seminar Series. Rhode Island Hospital, Providence, RI.
135. 1993 Nutrition and wound healing. 6th Congress of Parenteral and Enteral Nutrition, Buenos Aires, Argentina.
136. 1993 Multiple systems organ failure. 6th Congress of Parenteral and Enteral Nutrition, Buenos Aires, Argentina.
137. 1993 Metabolism in inflammation. 6th Congress of Parenteral and Enteral Nutrition, Buenos Aires, Argentina.
138. 1993 Current topics in parenteral nutrition. 6th Congress of Parenteral and Enteral Nutrition, Buenos Aires, Argentina.
139. 1993 Fundamentals of nutrition. Clinical Skills Workshop, Brown University Department of Surgery Core Clerkship in Surgery, Rhode Island Hospital, Providence, RI.
140. 1993 Nitric oxide: A mediator of macrophage function and death. Immunology Seminar Series, Biomedical Center, Brown University Campus, Providence, RI.
141. 1993 Nutritional support in the hospitalized patient. Surgical Grand Rounds, University of Pennsylvania Medical Center, Philadelphia, PA.
142. 1993 Nitric oxide as a mediator of macrophage function and death. Surgical Biology Club III, San Francisco, CA.
143. 1993 Wound healing. Residents' Conference, Department of Surgery, Rhode Island Hospital, Providence, RI.
144. 1993 Nutrition and metabolism. Residents' Conference, Department of Surgery, Rhode Island Hospital, Providence, RI.
145. 1993 Nutritional support in the hospitalized patient. Educational program, The Westerly Hospital, Westerly, RI.
146. 1994 Nutritional support in the hospitalized patient. Medical Grand Rounds, Memorial Hospital of Rhode Island, Pawtucket, RI.
147. 1994 Wound healing: The impact of nutritional intervention. Academy of Medical Sciences of Catalunya, Barcelona, Spain.

148. 1994 Nitric oxide as a mediator of macrophage function and death. Vascular Biology and Physiology Seminar Series, King's College, London, England.
149. 1994 Cytokines and wound healing. 65th Congress, Argentine Surgical Association, Buenos Aires, Argentina.
150. 1994 Wound healing. 65th Congress, Argentine Surgical Association, Buenos Aires, Argentina.
151. 1994 Nutrition and wound healing. Fourth Annual Nutrition Symposium: Current Topics in Adult and Pediatric Nutritional Support, Department of Clinical Dietetics, Rhode Island Hospital, Providence, RI.
152. 1995 Pathophysiology of wound healing. American Society for Parenteral and Enteral Nutrition 19th Clinical Congress, Miami Beach, FL.
153. 1995 Nitric oxide in inflammation and wounds. Division of Renal Diseases, Rhode Island Hospital, Providence, RI.
154. 1995 The role of nitric oxide in macrophage function and death. Brown University Pathobiology Seminar, Providence, RI.
155. 1995 Arginine and NO as mediators of immune function. Immune Nutrition Workshop, Nice, France.
156. 1995 The nutrition support team in the 90's. Nutrition Support Team Rounds, Saint-Antoine Hopitaux de Paris, France.
157. 1995 Why no NO? Brown University Pulmonary Research Conference, Providence, RI.
158. 1995 On the expression of nitric oxide synthase by human macrophages. Brown University Department of Surgery Grand Rounds, Rhode Island Hospital, Providence, RI.
159. 1995 The surgical metabolism laboratory. Shock, Trauma, Metabolism Research Conference, Department of Surgery, Rhode Island Hospital, Providence, RI.
160. 1995 Nutritional support in cancer patients. Department of Medical Oncology Conference, Rhode Island Hospital, Providence, RI.
161. 1995 Nutritional supplementation in the ICU. Veteran's Administration Medical Grand Rounds, Providence, RI.
162. 1995 Wound healing. Plastic Surgery Grand Rounds, Rhode Island Hospital, Providence, RI.
163. 1995 Nitric oxide production by human monocytes/macrophages. Why no NO? Surgical Research Seminar, Brigham and Women's Hospital, Boston, MA.
164. 1995 Nitric oxide production by human monocytes/macrophages. Why no NO? 4th International Meeting, Biology of Nitric Oxide, Amelia Island, FL.
165. 1995 Arginine and nitric oxide interactions in the healing wound. Sero Symposium USA Growth Factors and Wound Healing: Basic Science and Potential Clinical Applications, Boston, MA.
166. 1995 Regulation of wound healing, tissue injury and nitric oxide physiology. Spanish Society of Intensive Medicine National Congress, Murcia, Spain.
167. 1995 Nitric oxide in healing wounds. Introduction to Faculty Research in Pathobiology, BioMed 285, Brown University, Providence, RI.
168. 1996 Putting it back together: Wound healing and the physiology of the wound macrophage. Surgical Research Seminar Series, Rhode Island Hospital, Providence, RI.

169. 1996 Wound healing and the physiology of the wound macrophage. Surgeon-in-Chief Pro Tempore Research Conference, Department of Surgery, Rhode Island Hospital, Providence, RI.
170. 1996 Nutrition in the hospitalized patient. Fundacion Pii Synyer, Barcelona, Spain.
171. 1996 Nutrition and inflammatory responses. Academie de Ciencias de Catalonia, Barcelona, Spain.
172. 1996 Wound physiology. Research in Pathobiology. Biomed 285: Introduction to Faculty. Brown Medical School, Providence, RI.
173. 1996 Putting it back together: Wound healing and the physiology of the wound macrophage. Faculty Lecturer, Third Annual Henry Thomas Randall Distinguished Lectureship in Surgical Sciences, Brown Medical School, Rhode Island Hospital, Providence, RI.
174. 1997 Wound healing. Department of Orthopedics Teaching Conference, Rhode Island Hospital, Providence, RI.
175. 1997 Apoptosis. Hematology-Oncology Faculty and Fellows Conference, Rhode Island Hospital, Providence, RI.
176. 1997 Macrophage-derived NO as an apoptotic cytotoxic effector. Surgeon-in-Chief Pro Tempore Research Conference, Department of Surgery, Rhode Island Hospital, Providence, RI.
177. 1997 Nutrition and wound healing. Nutrition Support Lecture Series, Department of Surgery, Allegheny University Hospitals, Center City, Philadelphia, PA.
178. 1997 Nitric oxide and microvascular patency. Research conference, Department of Plastic Surgery, Rhode Island Hospital, Providence, RI.
179. 1997 Nutritional regulation of inflammatory response. VIII Enteral and Parenteral Nutrition Congress, Buenos Aires, Argentina.
180. 1997 Growth factors in nutrition. VIII Enteral and Parenteral Nutrition Congress, Buenos Aires, Argentina.
181. 1997 Nitric oxide in inflammatory disease. Oxygen Metabolism Laboratory, University of Buenos Aires School of Medicine, Buenos Aires, Argentina.
182. 1998 Nutrition: Enteral and parenteral. Fellows Critical Care Lecture Series, Rhode Island Hospital, Providence, RI.
183. 1998 Functional metabolic studies in healing wounds. Laboratorio Central de Investigaciones, Facultad de Medicina, Universidad de Antioquia, Medellín, Colombia.
184. 1998 Functional metabolic studies in healing wounds. Pathology Research Rounds, Brown Medical School, Providence, RI.
185. 1998 Healing wounds: Cellular and metabolic correlates. Endocrine Grand Rounds, Rhode Island Hospital, Providence, RI.
186. 1999 Hypoxic regulation of gene expression. Pulmonary Research Conference, Brown University, Providence, RI.
187. 1999 Functional and metabolic studies in healing wounds. Scientific Program, 69th Annual Meeting of the Southern Society of Clinical Surgeons, Providence, RI.
188. 1999 Regulatory mechanisms in early wounds. Basic Research Seminar Series, RI Hospital.

189. 2000 Regulatory mechanisms in early wounds. Pathobiology Seminar Series, Brown University, Providence, RI.
190. 2000 Fasting, starvation and malnutrition. RI Dietetic Association Spring Conference, University of Rhode Island Kingston, RI.
191. 2000 Role of nitric oxide in inflammation. Inhaled Nitric Oxide Therapy Postgraduate Course. American Thoracic Society 96<sup>th</sup> International Conference, Toronto, CA.
192. 2001 TPN: Update on use and applications. Landmark Medical Center, Woonsocket, RI.
193. 2001 TPN in the surgical patient. St. Luke's Hospital, New Bedford, MA.
194. 2001 Nutrition: Enteral and Parenteral. Critical Care Lecture Series for Pulmonary Critical Fellows, Rhode Island Hospital, Providence, RI.
195. 2001 Inflammation and nitric oxide. Orthopedics Residency Program Basic Science, Rhode Island Hospital, Providence, RI.
196. 2001 Nutritional support of the critically ill. 7<sup>th</sup> Annual Critical Care Update, Providence, RI.
197. 2001 The role of nutrition in wound healing. Charlton Memorial Hospital, Fall River, MA.
198. 2001 Nutritional support. Medical Ground Rounds. RI Hospital, Providence, RI.
199. 2002 Role of nutrition in wound healing. The Miriam Hospital, Providence, RI.
200. 2002 Nutrition and wound healing. Lowell General Hospital Grand Rounds, Lowell, MA.
201. 2002 Nutrition and wound healing. Plastic Surgery Grand Rounds, RI Hospital, Providence, RI.
202. 2002 Macrophage-neutrophil interaction at wound site. Wound healing: oxygen and emerging therapeutics conference, Session X, Wound immunity. Columbus, OH.
203. 2002 Total parenteral nutrition: an overview. Conference, Charlton Memorial Hospital, Fall River, MA.
204. 2002 Nutritional support in the surgical patient. RI Hospital Surgical Grand Rounds, Providence, RI.
205. 2002 Is there a role for TPN in surgical patients? Surgical Grand Rounds, Sinai Hospital of Baltimore, MD.
206. 2003 Nutrition: Enteral and Parenteral. Critical Care Lecture Series, RI Hospital, Providence, RI.
207. 2003 Nutrition in the ICU: Anything new? Changing Standards of Care in the ICU: Using Evidence-Based Medicine at the Bedside. Providence, RI.
208. 2003 Oxygen and the regulation of gene expression in wounds. TK Hunt Symposium, University of California, San Francisco, CA.
209. 2004 Neutrophils as inflammatory cells. Center for Experimental Therapeutics and Repurfusion Injury, Brigham & Women's Hospital, Harvard Medical School, Boston, MA.
210. 2004 Nutrition: Enteral & Parenteral. Newport Hospital Grand Rounds, Newport, RI.
211. 2005 Strategies for integrated research on inflammation. F. Taie Biochemical Institute, Mar del Plata, Argentina.
212. 2005 The Regulatory Neutrophil. Comprehensive Wound Center Inaugural Conference, Ohio State University, Columbus, OH.

213. 2006 The Anti-Inflammatory Neutrophil. 2006 Spring Pathobiology Seminar Series, RI Hospital, Providence, RI.
214. 2006 The Anti-Inflammatory Neutrophil. McGill University 2006 Seminar Series. Montreal, CA.
215. 2006 Introduction to Nutrition. Division of Gastroenterology, Department of Medicine, RI Hospital, Providence, RI.
216. 2006 The Anti-Inflammatory Neutrophil. Pulmonary Research Seminar Series. Brown University, Providence, RI.
217. 2007 Introduction to Nutrition. Division of Gastroenterology, Department of Medicine, RI Hospital, Providence, RI.
218. 2008 Introduction to Nutrition. Division of Gastroenterology, Department of Medicine, RI Hospital, Providence, RI.
219. 2009 Ultrasound Guidance for Central Venous Catheter Insertion. Department of Surgery, RI Hospital, Providence RI.
220. 2009 Introduction to Nutrition. Division of Gastroenterology, Department of Medicine, RI Hospital, Providence, RI.
221. 2010 Introduction to Nutrition. Division of Gastroenterology, Department of Medicine, RI Hospital, Providence, RI.
222. 2011 Nutritional Support of the Hospitalized Patient. CME Conference, The Westerly Hospital, Westerly, RI.
223. 2011 Introduction to Nutrition. Division of Gastroenterology, Department of Medicine, RI Hospital, Providence, RI.
224. 2011 Wound Healing. Pathophysiology / Grand Rounds, RI Hospital, Providence, RI
225. 2012 Nutritional Support of the Hospitalized Patient. RI Hospital, Urology Grand Rounds, Providence, RI.
226. 2012 Introduction to Nutrition. Division of Gastroenterology, Department of Medicine, RI Hospital, Providence, RI.
227. 2012 Wound Healing. Pathophysiology / Grand Rounds, RI Hospital, Providence, RI
228. 2013 Introduction to Nutrition. Division of Gastroenterology, Department of Medicine, RI Hospital, Providence, RI.
229. 2013 Wound Healing. Pathophysiology / Grand Rounds, RI Hospital, Providence, RI

#### **CURRENT GRANTS:**

1. 2004- Principal Investigator  
2014 Trauma and Inflammation Research Training  
T32 GM065085-10  
NIH/NIGMS Total Costs: \$550,364
  
2. 1995- Collaborator  
2014 Programmed Cell Death: Role in Septic Immune Dysfunction  
R01 GM053209-18  
NIH/NIGMS Total Costs: \$1,039,163

3. 2002– Collaborator  
2014 COBRE Center for Cancer Research Development  
P20 GM103421-10  
NIH/NCRR Total Costs: \$4,453,616

**COMPLETED GRANTS:**

1. 2009 - Collaborator  
2013 Differential Effects of Sepsis on Immune Cell Function  
R01 GM046354-18  
NIH/NIGMS Total Costs: \$1,282,243
2. 1989- Principal Investigator  
2012 Cellular Molecular Biology of Inflammation and Repair  
R01 GM042859-19  
NIH/NIGMS Total Costs: \$1,745,277
3. 2007- Mentor  
2012 Heterogeneity of Wound Macrophages  
K08 GM079227-05  
NIH/NIGMS Total Costs: \$607,365
4. 2006- Collaborator  
2011 Neutrophil-Macrophage Interactions Govern Liver Immunity  
NIH/NIDDK  
R01 DK068097 Total Costs: \$1,300,379
5. 2002– Collaborator  
2013 Effect of Neutrophil Priming on Chemotaxis and Signaling  
R01 GM066194-08  
NIH/NIGMS Total Costs: \$1,215,208
6. 2004- Principal Investigator  
2006 A Study of the Efficacy and Safety of Teduglutide in Subjects with Parenteral  
Nutrition-Dependent Short Bowel Syndrome  
CL0600-04  
NPS Allelix Corp/Parexel International Total Costs: \$33,038
7. 2002- Principal Investigator  
2005 Cellular Molecular Biology of Inflammation and Repair Reentry Supplement  
R01 GM042859-S1  
NIH/NIGMS Total Costs: \$315,891
8. 2004 Principal Investigator  
Advances in Inflammation Research Symposium  
Educational Grant  
Pfizer, Inc. and Amgen Inc. Total Costs: \$15,000

9. 2000 Principal Investigator  
A multicenter, randomized, double-blind active-control study to evaluate the safety and nutritional efficacy of multiple infusions of 3:1 MCT 20% IV fat emulsion as compared to Intralipid 20% IV fat emulsion in patients with chronic bowel disease.  
Baxter Healthcare Corp./Hyland Division  
Protocol 98/101                      Total Costs: \$43, 742
10. 1997- Mentor  
1998 Regulation of Phagocytic Functions by the Wound Microenvironment.  
(Recipient: Marybeth Harler, MD)  
Surgical Infection Society    Total Costs: \$35,000
11. 1994- Principal Investigator  
1995 Mechanisms of Nitric Oxide Mediated Cellular Apoptosis  
RIH DG1016  
Rhode Island Hospital Grant      Total Costs: \$8,000
12. 1991- Principal Investigator  
1992 Effects of Ornithine-Ketoglutarate on Macrophage Function  
Laboratories Jacques Logeais, France    Total Costs: \$19,304
13. 1990- Principal Investigator  
1991 Dietary Manipulation of Bacterial Translocation in the Rat  
Ross Laboratories                  Total Costs: \$9,415
14. 1987- Co-Investigator  
1992 Biological Priority and Regulations, Mechanism of Wound Healing  
R01 GM032224  
NIH/NIGMS                          Total Costs: \$1,007,680
15. 1987- Principal Investigator  
1988 Arginine Metabolism in the Healing Wound  
Biomedical Research Support Grant      Total Costs: \$9,662
16. 1985- Principal Investigator  
1986 Glutamine Metabolism in the Healing Wound  
The Rhode Island Foundation              Total Costs: \$1,000

**UNIVERSITY TEACHING ROLES:**

2005 - 2007    Doctoral Thesis Advisor  
                  Julia Xu  
                  Graduate Program in Pathobiology  
                  Brown University

4/25/14

- 2003 - 2007    Doctoral Thesis Committee Member  
Doreen E. Wesche  
Graduate Program in Pathobiology  
Brown University
- 2002 – 2007    Doctoral Thesis Committee Member  
Brian LeBlanc  
Graduate Program in Pathobiology  
Brown University
- 1995 - 2000    Doctoral Thesis Advisor  
Adriana Meszaros, Ph.D.  
Graduate Program in Pathobiology  
Brown University
- 1996 - 1997    Faculty, M.D. / Ph.D. Program  
Division of Biology & Medicine  
Brown Medical School
- 1995 -  
present        Faculty Sponsor, Summer Research Early Identification Program  
Brown University funded by the NIH  
Short Term Training for Minority Students grant  
and The Leadership Alliance
- 1994 -  
present        Pathobiology Faculty Research Faculty:  
Pathobiology BioMed 295-296 Graduate Independent Study,  
Pathobiology BioMed 285, and  
Pathobiology BioMed 195-196 Directed Research/Independent Study,  
The Warren Alpert Medical School of Brown University
- 1993 -  
present        Faculty  
Pathobiology Graduate Program  
Division of Biology and Medicine  
The Warren Alpert Medical School of Brown University
- 1993 - 1995    Faculty Advisor  
Women in Science and Engineering (WISE)  
Research Fellowship Program  
Brown University
- 1992 -  
present        Course Provider  
Basic Science in Surgery, Integrated Program in Surgery  
The Warren Alpert Medical School of Brown University
- 1990 - 2001    Section Leader  
Nutrition, Biomed 281-Pathophysiology  
Brown Medical School

- 1989 - 1990 Associate Course Leader  
Nutrition 281  
Brown University Program in Medicine
- 1988 - present Instructor  
Nutrition Surgical Core Clerkship Course  
The Warren Alpert Medical School of Brown University
- 1984 - present Instructor  
Surgical Nutrition Rotation  
Surgical Residency Program  
The Warren Alpert Medical School of Brown University
- 1984 - 1988 Instructor  
Nutrition 281  
Brown University Program in Medicine

**POST-DOCTORAL FELLOWS:**

Name: **Jean Daley, M.D.**  
Designation: Post-Doctoral Fellow  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: June 2002 – April 2005  
Advisor: Jorge E. Albina, M.D.  
Research project: Cellular/molecular biology of inflammation and repair.  
Prior degrees: A.B., 1980, Bowdoin College  
M.D., 1994, Tufts University  
Supported by: R01GM 42859  
Current position: Assistant Professor of Surgery (Research)  
Brown University, Providence, RI

Name: **Eduardo Lopez-Collazo, Ph.D.**  
Designation: Post-Doctoral Fellow  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: March 2001 - October 2001  
Advisor: Jorge E. Albina, M.D.  
Research project: Cellular/molecular biology of inflammation and repair.  
Prior degrees: M.S., 1992, Havana University  
Ph.D., 1998, Complutense University, Madrid  
Supported by: R01GM 42859  
Current position: Research, La Paz Hospital  
Madrid, Spain

Name: **Joseph A. Vessella, Ph.D.**  
Designation: Post-Doctoral Fellow  
Research site: Department of Surgery, Surgical Research  
RI Hospital

Training period: December 1998 - January 2001  
Advisor: Jorge E. Albina, M.D.  
Research project: Arginine regulation of cell function in healing wounds.  
Prior degrees: B.S., 1984, University of Rhode Island  
M.S., 1991, University of Rhode Island  
Ph.D., 1995, University of Rhode Island  
Supported by: R01GM 42859

Name: **Claudine A. Louis, Ph.D.**  
Designation: Post-Doctoral Fellow  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: March 1995 – July 1998  
Advisor: Jorge E. Albina, M.D.  
Research project: Arginine regulation of cell function in healing wounds.  
Prior degrees: B.Sc., 1985, University of Massachusetts  
Ph.D., 1995, Dartmouth Medical School  
Supported by: R01GM 42859 and Brown University Pathobiology Graduate  
Program Training Grant  
Current position: Investigator, Department of Pharmacology and Toxicology  
Dartmouth Medical School, Hanover, NH

Name: **Shijun Cui, Ph.D.**  
Designation: Postdoctoral Fellow  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: December 1991 – December 1994  
Advisor: Jorge E. Albina, M.D.  
Research project: Arginine regulation of cell function in healing wounds.  
Supported by: R01GM 42859  
Prior degrees: B.Sc., 1986, Beijing Medical University  
Ph.D., 1989, Beijing Medical University  
Current position: Investigator, Pharmaceutical Co.  
Philadelphia, PA

**SURGICAL RESIDENTS RESEARCH FELLOWS:**

Name: **Samielle K. Brancato, M.D.**  
Designation: Surgical Resident Postdoctoral Fellow  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: July 1, 2008 – June 30, 2010  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: B.S., 2000, University of Portland  
M.D., 2005, Georgetown University School of Medicine  
Research project: IL-1  
Supported by: NIH Trauma & Inflammation Training Fellowship Grant

Name: **Alan A. Thomay, M.D.**  
Designation: Surgical Resident Postdoctoral Fellow  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: July 1, 2006 – June 30, 2008  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: B.S., 2000, Xavier University  
M.D., 2004, University of Cincinnati College of Medicine  
Research project: Mechanisms for neutrophil regulation of macrophage activation.  
Supported by: Brown University Program in Surgery, RI Hospital  
Armand D. Versaci Award

Name: **Gwendolyn F. Elphick, Ph.D.**  
Designation: Surgical Resident Postdoctoral Fellow  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: July 1, 2006 – June 30, 2007  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: B.A., 1993, Tufts University  
M.A., 1997 SUNY Oneonta  
M.S., 2000 University of Colorado at Boulder  
Ph.D., 2003 University of Colorado at Boulder  
Research project: Mechanisms of neutrophil migration  
Supported by: NIH Trauma & Inflammation Training Fellowship Grant

Name: **Michael D. Connolly, M.D.**  
Designation: Surgical Resident Postdoctoral Fellow  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: July 1, 2004 - June 30, 2006  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: B.A., 1994, Harvard University  
M.D., 2001, Medical College of PA, Hahnemann College of Medicine  
Research project: Suppressive neutrophil-macrophage interactions.  
Supported by: NIH Trauma & Inflammation Training Fellowship Grant

Name: **Eric Mahoney, M.D.**  
Designation: Surgical Resident Postdoctoral Fellow  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: July 1, 2001 - June 30, 2003  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: B.Sc., 1992, Boston College  
M.D., 1999, Temple University  
Research project: The role of the inducible form of nitric oxide synthase in the regulation  
of inflammation and repair.  
Supported by: Brown University Program in Surgery, RI Hospital  
Armand D. Versaci Award

Name: **Christopher C. Nessel, M.D.**  
Designation: Surgical Resident Postdoctoral Fellow  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: July 1, 1996 - June 30, 1998  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: B.S.N., 1986, Temple University  
M.D., 1994, Temple University School of Medicine  
Research project: Arginine regulation of cell function in healing wounds.  
Supported by: Brown University Program in Surgery, RI Hospital  
Current position: Clinical Surgeon, RI

Name: **Romeo B. Mateo, M.D.**  
Designation: Surgical Resident Postdoctoral Fellow  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: July 1, 1992 - June 30, 1994  
Advisor: Jorge E. Albina, M.D.  
Research project: Arginine regulation of cell function in healing wounds.  
Supported by: Brown University Program in Surgery, RI Hospital  
Prior degrees: B.A., 1985, Brown University  
M.D., 1988, Brown Medical School  
Current position: Surgical Staff, Westchester Medical Center, Valhalla, NY  
Vascular Surgeon, Private Practice, Valhalla, NY

Name: **Ron Magee, M.D.**  
Designation: Surgical Resident Postdoctoral Fellow  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: 1991  
Advisor: Jorge E. Albina, M.D.  
Research project: Arginine regulation of cell function in healing wounds.  
Supported by: Brown University Program in Surgery, RI Hospital  
Prior degrees: B.Sc., 1984, Washington and Lee University  
M.D., 1988, Washington University School of Medicine  
Current position: Surgical Staff, Abbott N.W. Hospital,  
Minneapolis, MN

Name: **Joseph Abate, M.D.**  
Designation: Post-Doctoral trainee, Training Grant Appointment  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: July 1, 1990 - June 30, 1992  
Advisor: Jorge E. Albina, M.D.  
Research project: Arginine regulation of cell function in healing wounds.  
Supported by: Brown University Program in Surgery, RI Hospital  
Prior degrees: B.A., 1983, Harvard University  
M.D., 1988, Tufts University School of Medicine

Current position: Assistant Professor, University of Vermont and Orthopedic Staff,  
Department of Orthopedics & Rehabilitation, Burlington Hospital,  
Burlington, VT

**Ph.D. CANDIDATES:**

Name: **Julia Xu**  
Designation: Ph.D. Candidate  
Brown University Graduate Program in Pathobiology  
Research site: Department of Surgery, Surgical Research,  
RI Hospital  
Training period: May 2005 – June 2007  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: B.Sc., 1999, McGill University  
M.Sc., 2001, University of Calgary  
Supported by: Pathobiology training grant, Brown University  
Research Project: Mechanism(s) for the regulation of type I interferon production by  
PGE<sub>2</sub>  
Current position: Post-doctoral fellow at Boston University Medical Center

Name: **Adriana J. LaGier, M.S. (nee Meszaros)**  
Designation: Ph.D. candidate  
Brown University Graduate Program in Pathobiology  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: September 1994 – June 2000  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: B.Sc., 1989, Florida State University  
M.S., 1994, Florida International University  
Supported by: Arginine regulation of cell function in healing wounds - NIH  
(competitive renewal) R01GM 42859-07  
Research project: Macrophage interactions with neutrophils during acute inflammation.  
Current position: Assistant Professor of Biology  
Grand View University, Des Moines, IA

Name: **Doreen Wesche**  
Designation: Ph.D. candidate  
Brown University Graduate Program in Pathobiology  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: January - May, 2003  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: M.S., 2002, University of Rhode Island  
Supported by: Brown University Graduate Program in Pathobiology & R I Hospital  
Research project: Cellular/molecular biology of inflammation and repair.  
Current position: Research Laboratory Intern

**GRADUATE STUDENTS:**

Name: **Laura Manfield**  
Designation: Graduate Student, Independent Study  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: September 2001 – June 2002  
Advisor: Jorge E. Albina, M.D.  
Research project: Modulation of the acute phase response.  
Current position: Pre-Med Student, Graduate of Cornell University  
post Fulbright Scholarship, Sidney, Australia

Name: **Vino Mody, M.D.**  
Designation: Summer Research Assistantship  
Brown University Division of Biology and Medicine  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: Summer, 1999  
Advisor: Jorge E. Albina, M.D.  
Research project: Regulation of arginase isoforms I and II by IL-4 in cultured murine  
peritoneal macrophages.  
Current position: Investigator, Karolinska Institutet  
Stockholm, Sweden

**UNDERGRADUATE STUDENTS:**

Name: **Devin Green**  
Designation: Summer Research Assistant  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: Summer, 2012  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: Undergraduate, Iona College  
Research project: TLR signaling and the wound healing response

Name: **Ashley Pender**  
Designation: Summer Research Assistant  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: Summer, 2009  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: Undergraduate, Brown University  
Research project: The role of Toll-like receptor 4 in determining wound macrophage  
phenotype

Name: **James Rotenberg**  
Designation: Summer Research Assistant  
Research site: Department of Surgery, Surgical Research  
RI Hospital

Training period: Summer, 2008  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: Undergraduate, Brown University  
Research project: IL-1 receptor knockout mice and the mRNA they produce in response to sterile incisional wounds

Name: **Patrick Worth**  
Designation: Undergraduate Student  
Research site: Department of Surgery, Surgical Research  
RI Hospital

Training period: November 2007 - 2009  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: New York University, B.A. in Anthropology and Pre-Professional Medicine, Minor in Biology. Graduated May, 2007 *cum laude*.  
Research project: Investigating the effects of IL-1 signaling on murine linear wound tensile strength and fibrosis.

Name: **Stanley Voigt**  
Designation: Summer Research Assistant  
Research site: Department of Surgery, Surgical Research  
RI Hospital

Training period: Summer, 2007  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: Undergraduate, Brown University  
Research project: Role of prostaglandin E<sub>2</sub> in the Regulation of macrophage biology.

Name: **Sandra Augusto**  
Designation: Undergraduate Student  
Research site: Department of Surgery, Surgical Research  
RI Hospital

Training period: February 2004 – March 2006  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: Utica College of Syracuse University  
Biology/Pre-Med and Chemistry, 2004  
Research project: Cellular/molecular biology of inflammation and repair.

Name: **Leroy Hubert**  
Designation: Summer student funded by the NIH  
Short Term Training for Minority Students grant and  
The Summer Research Early Identification Program of The  
Leadership Alliance

Research site: Department of Surgery, Surgical Research  
RI Hospital

Training period: 2001  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: Undergraduate, Southern University A&M College  
Research project: Cellular/molecular biology of inflammation and repair.

Name: **Amy Kulak**  
Designation: Independent Study  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: Summer, 2000  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: Biology Undergraduate, Brown University  
Research project: Modulation of the acute phase response.

Name: **Nathaniel Cook**  
Designation: Laboratory Technician  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: Summer, 2000  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: Freshman, Pre-Med., Boston University, MA  
Research project: Cellular/molecular biology of inflammation and repair.

Name: **Fernando Gonzales**  
Designation: Undergraduate – Summer Research Assistantship  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: Summer, 1998  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: 1<sup>st</sup> Year PLME, Brown University, Division of Biology & Medicine  
Research project: Local defenses against wound infection. Characterization of the anti-infectious activity of wound-derived polymorphonuclear leukocytes and macrophages.

Name: **Sanjay Naik**  
Designation: Undergraduate Student - Summer Research Assistantship  
Research site: Department of Surgery, Surgical Research, RI Hospital  
Training period: Summer, 1997  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: Undergraduate, Brown University  
Research project: The role of poly ADP ribosylation in determining cell shape and phagocytic capacity in macrophages producing nitric oxide.

Name: **Yadiera Brown**  
Designation: Leadership Alliance Summer Program rotation  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: 1997  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: Undergraduate, New York University  
Research project: Determination of the effect of hypoxia and LPS exposure on the production of matrix metalloproteinases by rat resident peritoneal macrophages.

Name: **Jeffrey Girshman**  
Designation: Independent study, Brown University Division of Biology and Medicine  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: 1995  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: Undergraduate, Brown University  
Research project: Gelatinase production in resting and activated rat macrophages.

Name: **Ravi Ponnappan**  
Designation: Research Assistant  
Research site: Department of Surgery, Surgical Research, RI Hospital  
Training period: 1995  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: Undergraduate, Brown University  
Research project: Respiratory burst activity in wound-derived macrophages.

Name: **Rooney Thomas**  
Designation: Leadership Alliance Summer Program rotation  
Research site: Department of Surgery, Surgical Research, RI Hospital  
Training period: 1995  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: Undergraduate, Stanford University, CA  
Research project: Determination for the collagenase release by inflammatory cells, experimental performance and sample analysis.

Name: **Danya Kraft-Stolar**  
Designation: WISE (Women in Science and Engineering) Fellow, UTRA  
(Undergraduate Teaching and Research Assistantship), Brown  
University, RI  
Research site: Dept. of Surgery, Surgical Research, RI Hospital  
Training period: Summer and Fall 1993 and Spring 1994  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: Undergraduate, Brown University  
Research project: Impact of nitric oxide on glyceraldehyde-3-phosphate dehydrogenase  
activity and glucose metabolism in rat macrophages.

Name: **Noel Gerald**  
Designation: Independent study  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: July 1, 1992 - June 30, 1993  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: Undergraduate, Brown University Division of Biology and Medicine  
Research project: Production and regulation of murine tumor necrosis factor.

Name: **C. Azzoli**  
Designation: Independent study, Brown University Division of Biology and Medicine  
Research site: Department of Surgery, Surgical Research  
RI Hospital  
Training period: 1986  
Advisor: Jorge E. Albina, M.D.  
Prior degrees: Pre-Med. Student, Johns Hopkins Medical School  
Research project: Dietary induction of bacterial translocation in the rat.

**PUBLICATIONS CO-AUTHORED WITH UNDERGRADUATES SINCE 1991:**

Magee, R., Robinson, A., **Azzoli, C.G.**, Albina, J.E. Dietary induction of bacterial translocation in the rat. *FASEB Journal*, 1:A567, 1991.

**Gladden, P.** and Albina, J.E. Effects of *w*-3 fatty acid-enriched diet on wound healing (poster). Medical Research Day/ Poster Session, Brown University Division of Biology and Medicine, 1992.

Albina, J.E., **Gladden, P.**, Walsh, W.R. Effects of *w*-3 fatty acid-enriched diet on wound healing. *FASEB Journal* I, A139, 1993.

Albina, J.E., **Gladden, P.**, Walsh, W.R. Detrimental effects of an *w*-3 fatty acid-enriched diet on wound healing. *Journal of Parenteral and Enteral Nutrition*, 17:519-521, 1993.

**Gerald, N.**, Albina, J.E. Production and regulation of murine tumor necrosis factor (poster). Medical Research Day and Poster Session, Brown University Division of Biology and Medicine, 1993.

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.

**Girshman, J.**, Albina, J.E. Gelatinase production in resting and activated rat macrophages. Laboratory Research Conference, Surgical Research, RI Hospital, 1995.

**Ponnappan, R.** and Albina, J.E. Respiratory burst activity in wound-derived macrophages. Laboratory Research Conference, Surgical Research, RI Hospital, 1995.

**Thomas, R.L.** and Albina, J.E. The effects of nitric oxide on the regulation of gelatinase secretion in wound-derived, *Corynebacterium-activated*, and peritoneal macrophages. Inaugural Leadership Alliance Symposium, National Academy of Sciences, Washington, DC, 1995.

**Brown, Y.** and Albina, J.E. The determination of the effect of hypoxia and LPS exposure on the production of matrix metalloproteinases by rat resident peritoneal macrophages. Inaugural Leadership Alliance Symposium, National Academy of Sciences, Washington, DC, 1997.