

February 3, 2017

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### EDUCATION

- 1989, Laurea in Biological Sciences, Università degli Studi, Milano, Italy (4-year degree with experimental thesis).  
*Thesis title: Natural Killer cell activity in patients with hyperprolactinemia.*
- 1992, PhD in Experimental Endocrinology, Università degli Studi, Milano, Italy.  
*Thesis title: Modulation of tumor necrosis factor alpha production by endogenous glucocorticoids.*
- 1993, Master of Science in Neuroimmunology, Mario Negri Institute for Pharmacological Research, Milano, Italy

### APPOINTMENTS

- 1993-1994, Post-Doctoral Fellow, Laboratory of Neuroimmunology, Mario Negri Institute for Pharmacological Research, Milano, Italy
- 1994-1996, Post-Doctoral Fellow, Division of Infectious Diseases and Geographic Medicine, Tufts University School of Medicine, Boston, MA
- 1996-1997, Fellow, Division of Infectious Diseases, University of Colorado Health Sciences Center, Denver, CO
- 1997-2000, Instructor, Division of Infectious Diseases, University of Colorado Health Sciences Center, Denver, CO
- 2000-2004, Assistant Professor, Division of Infectious Diseases, University of Colorado Health Sciences Center, Denver, CO
- 2004-2012, Associate Professor, Department of Kinesiology and Nutrition, University of Illinois at Chicago, Chicago, IL
- 2012-present, Professor, Department of Kinesiology and Nutrition, University of Illinois at Chicago, Chicago, IL
- 2014-present, Director of Graduate Studies, Department of Kinesiology and Nutrition, University of Illinois at Chicago, Chicago, IL

### HONORS AND AWARDS

- 1999, Young Investigator Award, 4<sup>th</sup> World Congress of Inflammation
- 2001, Junior Faculty Award, American Association of Immunologists
- 2009, Educator of the Year Award, Dept. of Kinesiology and Nutrition, University of Illinois at Chicago
- 2011, Excalibur Award for Teaching Excellence, College of Applied Health Sciences, University of Illinois at Chicago
- 2016, Selected among the Top Italian Women Scientists in biomedicine.

## RESEARCH

### FUNDING FOR RESEARCH ACTIVITIES

#### Active research support: Co-Investigator

- NIH R0HL129153, Mediterranean diet, weight loss, and cognition in obese older adults, July 1, 2016 – April 30, 2021, PI: Marian Fitzgibbon

#### Past research support: Principal Investigator

- Cystic Fibrosis Foundation Research Grant, Interleukin-18 in cystic fibrosis, November 15, 2000 – November 14, 2003
- Broad Medical Research Program, The leptin receptor: role in IBD, January 1, 2002- September 29, 2004
- Crohn's and Colitis Foundation of America Senior Research Award, A role for leptin in murine models of IBD, July 1, 2002- September 30, 2004 (returned when NIH R01 funded)
- NIH R01DK061483, A role for leptin in murine models of IBD, September 20, 2003 – August 31, 2009
- NIH R21DK082705, A model of obesity-associated severe acute pancreatitis, March 8, 2006 – February 28, 2009
- National Pancreas Foundation Research Award, Interleukin-6 in experimental acute pancreatitis, June 1, 2009 – May 31, 2010
- NIH R01DK083328, Acute pancreatitis and obesity, July 1, 2010 – April 30, 2015
- CCTS0512-05, Use of the fast-food diet mouse to model the pathophysiology of NASH, May 1, 2012 – April 31, 2014 (Co-PI)
- UIC Cancer Center CC2014-03, Galectin-3 as a link between obesity and colorectal cancer risk, March 1, 2014 – June 30, 2015
- UIC Campus Research Board, Relationship between pancreatic cancer and glucose metabolism, March 1, 2015 – September 30, 2016

#### Past research support: Co-Investigator

- NIH R01AA01744, Homocysteine, Adiponectin, and Alcoholic Liver Disease, August 5, 2009 – July 31, 2015, PI: Zhenuyan Song
- NIH R01CA154406, Moving forward: a weight loss program for African-American breast cancer survivors, September 1, 2012 - July 31, 2016, PI: Melinda Stolley
- 261777 ACS, Effect of community-based lifestyle interventions on serum biomarkers of cancer risk in overweight and obese older African American adults with osteoarthritis: a randomized trial, January 1, 2013 – December 31, 2014, PI: Lisa Tussing-Humphreys
- CCTS0413-05, Obesity, Colonic Iron Metabolism, and Colorectal Cancer Risk, May 1, 2013 – April 30, 2015, PI: Lisa Tussing-Humphreys
- NIH R01HL093142, Intensive Nutrition in ARDS: A clinical trial, September 2, 2008 - June 30, 2014, PI: Carol Braunschweig

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- NIH R01CA129140, Adiposity and outcomes of clinically localized prostate cancer, February 1, 2009 – January 31, 2014, PI: Vincent Freeman
- NIH R21ES017121, Diabetes and persistent organic pollutants, September 1, 2009 – August 21, 2011, PI: Mary E. Turyk
- CCTS0512-04, Chronic hyperglycemia, advanced glycation end-products and peripheral insulin resistance with type 2 diabetes, May 1, 2012 – April 31, 2014, PI: Jacob Haus

### INVITED LECTURES

1. *Leptin: Induction by IL-1 and possible role in the acute phase response.* Clinical Staff Conferences: New insights into the acute phase response. Moderator: AF Suffredini. National Institutes of Health, Bethesda, MD. May 28, 1997
2. *Knocking-out IL-1 $\beta$  versus IL-1 $\beta$ -converting enzyme: more differences than similarities.* Society for Leukocyte Biology 32<sup>nd</sup> National Meeting, Baltimore, MD. December 4-7, 1997
3. *Interleukin-18, a novel proinflammatory mediator.* Co-chair. Bacterial Infections Symposium, First International Congress on Cytokines and Chemokines in Infectious Diseases. National Institutes of Health, Bethesda, MD. September 8-10, 1999
4. *Interleukin-18, a new proinflammatory cytokine.* From the Laboratory to the Clinic. Trinity College, Oxford, UK. September 25-29, 1999
5. *Lessons from interleukin-deficient mice. The IL-1 system.* Functional genomics – A new approach to understand cardiovascular and renal dysfunction. Satellite Symposium to the Joint Meeting of the Swedish and American Physiological Societies, Stockholm University, Stockholm, Sweden. August 19-20, 2000
6. *A role for leptin in autoimmunity.* Douglas Hospital Research Center, McGill University, Verdun, Quebec, Canada. April 29, 2002
7. *Interleukin-18.* The First International Sepsis Forum. Queens College, Cambridge, UK. July 14-15, 2002
8. *Leptin: from obesity to immunity.* The impact of nutritional status on immune function and health. FASEB Summer Research Conference, Vermont Academy, Saxtons River, VT. July 5-10, 2003
9. *Modulation of intestinal, hepatic and pancreatic inflammation by adipokines.* Frontiers of GI research seminars. Section of Digestive Diseases and Nutrition, University of Illinois at Chicago, Chicago, IL. December 15, 2004
10. *Role of adipose tissue in the regulation of immunity and inflammation.* Mario Negri Institute for Pharmacological Research, Milano, Italy. October 19, 2005
11. *Adipose tissue in the regulation of immunity and inflammation.* Division of Allergy and Immunology, Northwestern University, Chicago, IL. December 2, 2005
12. *Role of adiponectin in intestinal inflammation.* Division of Gastroenterology, University of Chicago, Chicago, IL. February 9, 2006
13. *Adipose tissue as a regulator of body homeostasis.* The Scripps Research Institute, La Jolla, CA. March 29, 2006

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14. *Adiponectin, leptin and ghrelin in intestinal inflammation*. Diabetes and the Gut. American Motility Society 2007 Scientific Meeting. Grand Bahama Island, Bahamas. March 1-4, 2007
15. *Leptin as a proinflammatory mediator in inflammatory bowel disease*. 9<sup>th</sup> Postgraduate Symposium "Obesity and Inflammation". Harvard Medical School, Boston, MA. March 21-22, 2007
16. *Adiponectin in inflammatory bowel disease*. Nutritional Immunology: Its Role in Health and Disease. FASEB Summer Research Conference. Tucson, AZ. July 28-August 2, 2007
17. *Adipose tissue as a regulator of intestinal inflammation*. Integrative Immunology and Behavior Group, University of Illinois at Urbana-Champaign, Champaign, IL. November 16, 2007
18. *Obesity and acute pancreatitis*. Frontiers of GI research seminars. Section of Digestive Diseases and Nutrition, University of Illinois at Chicago, Chicago, IL. March 5, 2008
19. *Adipokines as modulators of intestinal inflammation*. Intestine and Adipose tissue: the tale of two endocrine organs in inflammation. Digestive Disease Week. San Diego, CA. May 17-22, 2008
20. *Obesity and acute inflammation: where is the connection?* Department of Endocrinology Grand Rounds, Indiana University, Indianapolis, IN. November 16, 2009
21. *Obesity and acute inflammation: what's the connection?* Section of Endocrinology and Diabetes, University of Illinois at Chicago, Chicago, IL. December 15, 2009
22. *Obesity and experimental acute pancreatitis*. Frontiers of GI research seminars. Section of Digestive Diseases and Nutrition, University of Illinois at Chicago, Chicago, IL. April 7, 2010
23. *Interleukin-6 in obesity: The Good, The Bad and the Ugly*. Department of Kinesiology and Nutrition, University of Illinois at Chicago, Chicago, IL. September 17, 2010
24. *Interleukin-6 in obesity: The Good, The Bad and the Ugly*. Department of Kinesiology and Community Health, University of Illinois at Urbana-Champaign, Champaign, IL. October 1, 2010
25. *IL-6 in obesity and inflammation*. Section of Biochemical Pharmacology, William Harvey Research Institute, Queen Mary University of London, London, UK. November 12, 2010
26. *IL-6 in obesity and inflammation*. Division of Clinical & Laboratory Investigation, Brighton & Sussex Medical School, Brighton, UK. December 8, 2010
27. *IL-6 in obesity and inflammation*. Department of Pathology, University of Geneva, Geneva, Switzerland. December 16, 2010
28. *Unexpected consequences: development of a model of severe acute pancreatitis in obese mice*. Department of Microbiology, University of Padova, Italy. December 14, 2011
29. *IL-6 in obesity and inflammation*. Department of Psychology, University of Illinois at Chicago, Chicago, IL. December 2, 2011
30. *Unexpected consequences: development of a model of severe acute pancreatitis in obese mice*. Department of Physiology and Biophysics, University of Illinois at Chicago, Chicago, IL. February 17, 2012
31. *Adipose tissue inflammation*. Department of Pathology, Case Western Research University, Cleveland, OH. October 2, 2012

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32. *Obesity and pancreatic inflammation*. United European Gastroenterology Week. Amsterdam, The Netherlands. October 21-14, 2012
33. *The IL-12+IL-18 model of acute pancreatitis*. Cytokines in Disease Symposium. Denver, CO. August 15, 2013
34. *Adipose tissue inflammation: paradoxes and conundrums*. Keynote speaker: World Congress on the role of inflammation in exercise, health and disease, American College of Sports Medicine Annual Meeting, Orlando, FL. May 27-31, 2014
35. *Obesity and acute pancreatitis*. Division of Pediatric Endocrinology, University of Illinois at Chicago, Chicago, IL. September 17, 2014
36. *Unexpected consequences: development of a model of severe acute pancreatitis in obese mice*. Section of Gastroenterology, University of Illinois at Chicago, Chicago, IL. February 19, 2015
37. *Hard work and random luck: The discovery of leptin, the first adipokine*. College of Applied Health Sciences Continuing Education Day, University of Illinois at Chicago, Chicago, IL. April 11, 2015
38. *Obesity and acute pancreatitis*. Zhejiang Medical University, Hangzhou, China. September 20, 2016

#### PRIMARY RESEARCH ARTICLES

1. Hu C, Radelli L, Scorza R, Bonara P, Perego R, **Fantuzzi G**. In vivo enhancement of NK-cell activity by thymopentin. *Int J Immunopharmacol* 12:193-197, 1990. <http://www.ncbi.nlm.nih.gov/pubmed/2184134>
2. Mengozzi M, **Fantuzzi G**, Sironi M, Bianchi M, Fratelli M, Peri G., Bernasconi S, Ghezzi P. Early down-regulation of TNF production by LPS tolerance in human monocytes: comparison with IL-1 $\beta$ , IL-6, and IL-8. *Lymphokine Cytokine Res* 12:231-236, 1993. <http://www.ncbi.nlm.nih.gov/pubmed/7692988>
3. Erroi A, **Fantuzzi G**, Mengozzi M, Sironi M, Orencole SF, Clark BD, Dinarello CA, Isetta A, Gnocchi P, Giovarelli M, Ghezzi P. Differential regulation of cytokine production in lipopolysaccharide tolerance in mice. *Infect Immun* 61:4356-4359, 1993. <http://www.ncbi.nlm.nih.gov/pubmed/8406825>
4. **Fantuzzi G**, Cantoni L, Sironi M, Ghezzi P. Inhibitors of cytochrome P-450 suppress tumor necrosis factor production. *Cell Immunol* 150:417-424, 1993. <http://www.ncbi.nlm.nih.gov/pubmed/8370080>
5. Bianchi M, **Fantuzzi G**, Bertini R, Perin L, Salmona M, Ghezzi P. The pneumotoxicant paraquat induces IL-8 mRNA in human mononuclear cells and pulmonary epithelial cells. *Cytokine* 5:525-530, 1993. <http://www.ncbi.nlm.nih.gov/pubmed/8142610>
6. **Fantuzzi G**, Sironi M, Delgado R, Cantoni L, Rizzardini M, Carelli M, Marsili I, Ghiara P, Ghezzi P. Depression of liver metabolism and induction of cytokine release by diphtheria and tetanus toxoids and pertussis vaccines: role of *Bordetella pertussis* cells in toxicity. *Infect Immun* 62:29-32, 1994. <http://www.ncbi.nlm.nih.gov/pubmed/8262641>
7. **Fantuzzi G**, Demitri MT, Ghezzi P. Differential regulation of glucocorticoids on tumour necrosis factor production in mice: up-regulation by early pretreatment with dexamethasone. *Clin Exp Immunol* 96:166-169, 1994. <http://www.ncbi.nlm.nih.gov/pubmed/8149662>

8. Mengozzi M, **Fantuzzi G**, Faggioni R, Marchant A, Goldman M, Orencole SF, Clark BD, Sironi M, Benigni F, Ghezzi P. Chlorpromazine specifically inhibits peripheral and brain TNF production, and up-regulates IL-10 production, in mice. *Immunology* 82:207-210, 1994. <http://www.ncbi.nlm.nih.gov/pubmed/7927490>
9. Latini R, Bianchi M, Correale E, Dinarello CA, **Fantuzzi G**, Fresco C, Maggioni AP, Mengozzi M, Romano S, Shapiro L, Sironi M, Tognoni G, Turato R, Ghezzi P. Cytokines in acute myocardial infarction: selective increase in circulating tumor necrosis factor, its soluble receptor, and interleukin-1 receptor antagonist. *J Cardiovasc Pharmacol* 23:1-6, 1994. <http://www.ncbi.nlm.nih.gov/pubmed/7511719>
10. Fattori E, Cappelletti M, Costa P, Sellitto C, Cantoni L, Carelli M, Faggioni R, **Fantuzzi G**, Ghezzi P, Poli V. Defective inflammatory response in interleukin 6-deficient mice. *J Exp Med* 180:1243-1250, 1994. <http://www.ncbi.nlm.nih.gov/pubmed/7931061>
11. **Fantuzzi G**, Galli G, Zinetti M, Fratelli M, Ghezzi P. The upregulating effect of dexamethasone on tumor necrosis factor production is mediated by a nitric oxide-producing cytochrome P-450. *Cell Immunol* 160:305-308, 1995. <http://www.ncbi.nlm.nih.gov/pubmed/7720092>
12. **Fantuzzi G**, Benigni F, Sironi M, Conni M, Carelli M, Cantoni L, Shapiro L, Dinarello CA, Sipe JD, Ghezzi P. Ciliary neurotrophic factor (CNTF) induces serum amyloid A, hypoglycaemia and anorexia, and potentiates IL-1 induced corticosterone and IL-6 production in mice. *Cytokine* 7:150-156, 1995. <http://www.ncbi.nlm.nih.gov/pubmed/7780034>
13. Faggioni R, **Fantuzzi G**, Villa P, Buurman W, van Tits LJH, Ghezzi P. Independent down-regulation of central and peripheral tumor necrosis factor production as a result of lipopolysaccharide tolerance in mice. *Infect Immun* 63:1473-1477, 1995. <http://www.ncbi.nlm.nih.gov/pubmed/7890412>
14. Zinetti M, **Fantuzzi G**, Delgado R, Di Santo E, Ghezzi P, Fratelli M. Endogenous nitric oxide production by human monocytic cells regulates LPS-induced TNF production. *Eur Cytokine Netw* 6:45-48, 1995. <http://www.ncbi.nlm.nih.gov/pubmed/7795174>
15. Erroi A, **Fantuzzi G**, Demitri MT, Echtenacher B, Gnocchi P, Isetta A, Ghezzi P. Protective effect of chlorpromazine on TNF-mediated hapten-induced irritant reaction. *Eur Cytokine Netw* 6:55-57, 1995. <http://www.ncbi.nlm.nih.gov/pubmed/7795176>
16. Cole TJ, Blendy JA, Monaghan P, Kriegstein K, Schmid W, Aguzzi A, **Fantuzzi G**, Hummler E, Unsicker K, Schutz G. Targeted disruption of the glucocorticoid receptor gene blocks adrenergic chromaffin cell development and severely retards lung maturation. *Genes Dev* 9:1608-1621, 1995. <http://www.ncbi.nlm.nih.gov/pubmed/7628695>
17. **Fantuzzi G**, Di Santo E, Sacco S, Benigni F, Ghezzi P. Role of the hypothalamus-pituitary-adrenal axis in the regulation of TNF production in mice: effect of stress and inhibition of endogenous glucocorticoids. *J Immunol* 155:3552-3555, 1995. <http://www.ncbi.nlm.nih.gov/pubmed/7561052>
18. Zinetti M, Galli G, Demitri MT, **Fantuzzi G**, Minto M, Ghezzi P, Alzani R, Cozzi E, Fratelli M. Chlorpromazine inhibits TNF synthesis and cytotoxicity *in vitro*. *Immunology* 86:416-421, 1995. <http://www.ncbi.nlm.nih.gov/pubmed/8550079>
19. **Fantuzzi G**, Dinarello CA. The inflammatory response in IL-1 $\beta$ -deficient mice: comparison with other cytokine-related knock-out mice. *J Leukoc Biol* 59:489-493, 1996. <http://www.ncbi.nlm.nih.gov/pubmed/8613694>
20. Benigni F, **Fantuzzi G**, Sacco S, Sironi M, Pozzi P, Dinarello CA, Sipe JD, Poli V, Cappelletti M, Paonessa G, Pennica D, Panayotatos N, Ghezzi P. Six different cytokines that share gp130 as a

receptor subunit induce serum amyloid A and potentiate the induction of IL-6 and the activation of the hypothalamus-pituitary-adrenal axis by IL-1. *Blood* 87:1851-1854, 1996.

<http://www.ncbi.nlm.nih.gov/pubmed/8634432>

21. **Fantuzzi G**, Zheng H, Faggioni R, Benigni F, Ghezzi P, Sipe JD, Shaw AR, Dinarello CA. Effect of endotoxin in interleukin-1 $\beta$ -deficient mice. *J Immunol* 157:291-196, 1996. <http://www.ncbi.nlm.nih.gov/pubmed/8683129>
22. Benigni F, Faggioni R, Sironi M, **Fantuzzi G**, Vandenabeele P, Takahashi N, Sacco S, Fiers W, Buurman WA, Ghezzi P. Tumor necrosis factor receptor p55 plays a major role in centrally-mediated increases of serum IL-6 and corticosterone after intracerebroventricular injection of TNF. *J Immunol* 157:5563-5568, 1996. <http://www.ncbi.nlm.nih.gov/pubmed/8955207>
23. **Fantuzzi G**, Ku G, Harding MW, Livingston DJ, Sipe JD, Kuida K, Flavell RA, Dinarello CA. Response to local inflammation of IL-1 $\beta$ -converting enzyme-deficient mice. *J Immunol* 158:1818-1824, 1997. <http://www.ncbi.nlm.nih.gov/pubmed/9029121>
24. Alheim K, Chai Z, **Fantuzzi G**, Hasanvan H, Malinovski D, Di Santo E, Ghezzi P, Dinarello CA, Bartfai T. Hyperresponsive febrile reactions to IL-1 $\alpha$  and IL-1 $\beta$ , and altered brain cytokine mRNA and serum cytokine levels in IL-1 $\beta$ -deficient mice. *Proc Natl Acad Sci USA* 94: 2681-2686, 1997. <http://www.ncbi.nlm.nih.gov/pubmed/9122256>
25. Le Tulzo Y, Shenkar R, Kaneko D, Moine P, **Fantuzzi G**, Dinarello CA, Abraham E. Hemorrhage increases cytokine expression in lung mononuclear cells in mice: Involvement of catecholamines in nuclear factor (NF)- $\kappa$ B regulation and cytokine expression. *J Clin Invest* 99:1516-1524, 1997. <http://www.ncbi.nlm.nih.gov/pubmed/9119995>
26. Fratelli M, Zinetti M, **Fantuzzi G**, Spina C, Napoletano G, Donatiello G, Ravagnan R, Sipe JD, Casey CA, Ghezzi P. Time course of circulating acute phase proteins and cytokines in septic patients. *Amyloid* 4:33-39, 1997. <http://informahealthcare.com/doi/abs/10.3109/13506129708995266>
27. **Fantuzzi G**, Sacco S, Ghezzi P, Dinarello CA. Physiologic and cytokine responses in interleukin-1 $\beta$ -deficient mice following zymosan-induced inflammation. *Am J Physiol* 273:R400-R406, 1997. <http://www.ncbi.nlm.nih.gov/pubmed/9249578>
28. Gabay C, Porter B, **Fantuzzi G**, Arend WP. Mouse IL-1 receptor antagonist isoforms: complementary DNA cloning and protein expression of intracellular isoform and tissue distribution of secreted and intracellular IL-1 receptor antagonist in vivo. *J Immunol* 159:5905-5913, 1997. <http://www.ncbi.nlm.nih.gov/pubmed/9550387>
29. Puren AJ, **Fantuzzi G**, Gu Y, Su MS, Dinarello CA. Interleukin-18 (IFN $\gamma$ -inducing factor) induces IL-8 and IL-1 $\beta$  via TNF $\alpha$  production from non-CD14<sup>+</sup> human blood mononuclear cells. *J Clin Invest* 101:711-721, 1998. <http://www.ncbi.nlm.nih.gov/pubmed/9449707>
30. Faggioni R, **Fantuzzi G**, Fuller J, Dinarello CA, Feingold KR, Grunfeld C. IL-1 $\beta$  mediates leptin induction during inflammation in mice. *Am J Physiol* 274:R204-R208, 1998. <http://www.ncbi.nlm.nih.gov/pubmed/9458919>
31. **Fantuzzi G**, Puren AJ, Harding MW, Livingston DJ, Dinarello CA. Interleukin-18 regulation of interferon  $\gamma$  production and cell proliferation as shown in interleukin-1 $\beta$  converting enzyme (Caspase-1)-deficient mice. *Blood* 91:2118-2125, 1998. <http://www.ncbi.nlm.nih.gov/pubmed/9490698>

32. **Fantuzzi G**, Dinarello CA. Stem cell factor-deficient mice have a dysregulation of cytokine production during local inflammation. *Eur Cytokine Netw* 9:85-92, 1998. <http://www.ncbi.nlm.nih.gov/pubmed/9613682>
33. Puren AJ, Razeghi P, **Fantuzzi G**, Dinarello CA. Interleukin-18 synergizes with lipopolysaccharide for interferon- $\gamma$  production in human whole blood cultures. *J Infect Dis* 178:1830-1834, 1998. <http://www.ncbi.nlm.nih.gov/pubmed/9815245>
34. Reznikov LL, Puren AJ, **Fantuzzi G**, Muhl H, Shapiro L, Yoon DY, Cutler DL, Dinarello CA. Spontaneous and inducible cytokine responses in healthy humans receiving a single dose of IFN- $\alpha$ 2b: increased production of interleukin-1 receptor antagonist and suppression of IL-1-induced IL-8. *J Interferon Cytokine Res* 18:897-903, 1998. <http://www.ncbi.nlm.nih.gov/pubmed/9809626>
35. Faggioni R, **Fantuzzi G**, Gabay C, Moser A, Dinarello CA, Feingold KR, Grunfeld C. Leptin deficiency enhances sensitivity to endotoxin-induced lethality. *Am J Physiol* 276:R136-R142, 1999. <http://www.ncbi.nlm.nih.gov/pubmed/9887187>
36. Novick D, Kim S-H, **Fantuzzi G**, Reznikov LL, Dinarello CA, Rubinstein M. Interleukin-18 binding protein: a novel modulator of the TH1 cytokine response. *Immunity* 10:127-136, 1999. <http://www.ncbi.nlm.nih.gov/pubmed/10023777>
37. Puren AJ, **Fantuzzi G**, Dinarello CA. Gene expression, synthesis and secretion of IL-18 and IL-1 $\beta$  are differentially regulated in human mononuclear cells and mouse spleen cells. *Proc Natl Acad Sci USA* 96:2256-2261, 1999. <http://www.ncbi.nlm.nih.gov/pubmed/10051628>
38. Reznikov LL, **Fantuzzi G**, Selzman CH, Shames BD, Barton HA, Bell H, McGregor JA, Dinarello CA. Utilization of endoscopic inoculation in a mouse model of intrauterine infection-induced preterm birth: role of interleukin 1 $\beta$ . *Biol Reprod* 60:1231-1238, 1999. <http://www.ncbi.nlm.nih.gov/pubmed/10208989>
39. Vannier E, Kaser A, Atkins MB, **Fantuzzi G**, Dinarello CA, Mier JW, Tilg H. Elevated circulating levels of soluble interleukin-1 receptor type II during interleukin-2 immunotherapy. *Eur Cytokine Netw* 10:37-41, 1999. <http://www.ncbi.nlm.nih.gov/pubmed/10210771>
40. Biasucci LM, Liuzzo G, **Fantuzzi G**, Caligiuri G, Rebuzzi AG, Ginnetti F, Dinarello CA, Maseri A. Increasing levels of interleukin (IL)-1Ra and IL-6 during the first 2 days of hospitalization in unstable angina are associated with increased risk of in-hospital coronary events. *Circulation* 99:2079-2084, 1999. <http://www.ncbi.nlm.nih.gov/pubmed/10217645>
41. George CL, **Fantuzzi G**, Bursten S, Leer L, Abraham E. Effects of lisofylline on hyperoxia-induced lung injury. *Am J Physiol* 276:L776-L785, 1999. <http://www.ncbi.nlm.nih.gov/pubmed/10330034>
42. **Fantuzzi G**, Reed DA, Dinarello CA. IL-12-induced IFN $\gamma$  is dependent on caspase-1 processing of the IL-18 precursor. *J Clin Invest* 104:761-767, 1999. <http://www.ncbi.nlm.nih.gov/pubmed/10491411>
43. Vidal-Vanaclocha F, **Fantuzzi G**, Mendoza L, Fuentes AM, Anasagasti MJ, Martin J, Carrascal T, Walsh P, Reznikov LL, Kim SH, Novick D, Rubinstein M, Dinarello CA. IL-18 regulates IL-1 $\beta$ -dependent hepatic melanoma metastasis via vascular cell adhesion molecule-1. *Proc Natl Acad Sci USA* 97:734-739, 2000. <http://www.ncbi.nlm.nih.gov/pubmed/10639148>
44. Reznikov LL, Shames BD, Barton HA, Selzman CH, **Fantuzzi G**, Kim SH, Johnson SM, Dinarello CA. Interleukin-1 $\beta$  deficiency results in reduced NF- $\kappa$ B levels in pregnant mice. *Am J Physiol* 278:R263-R270, 2000. <http://www.ncbi.nlm.nih.gov/pubmed/10644648>



45. Kim SH, Eisenstein M, Reznikov LL, **Fantuzzi G**, Novick D, Rubinstein M, Dinarello CA. Structural requirements of six naturally occurring isoforms of the IL-18 binding protein to inhibit IL-18. *Proc Natl Acad Sci USA* 97:1190-1195, 2000. <http://www.ncbi.nlm.nih.gov/pubmed/10655506>
46. Netea MG, **Fantuzzi G**, Kullberg BJ, Stuyt RJL, Pulido EJ, McIntyre RC Jr, Joosten LAB, Van der Meer JWM, Dinarello CA. Neutralization of IL-18 reduces neutrophil tissue accumulation and protects mice against lethal *Escherichia coli* and *Salmonella typhimurium* endotoxemia. *J Immunol* 164:2644-2649, 2000. <http://www.ncbi.nlm.nih.gov/pubmed/10679104>
47. Faggioni R, Jones-Carson J, Reed DA, Dinarello CA, Feingold KR, Grunfeld C, **Fantuzzi G**. Leptin-deficient (*ob/ob*) mice are protected from T cell-mediated hepatotoxicity: Role of tumor necrosis factor- $\alpha$  and IL-18. *Proc Natl Acad Sci USA* 97:2367-2372, 2000. <http://www.ncbi.nlm.nih.gov/pubmed/10681432>
48. Reznikov LL, Kim SH, Westcott JY, Frishman J, **Fantuzzi G**, Novick D, Rubinstein M, Dinarello CA. IL-18 binding protein increases spontaneous and IL-1-induced prostaglandin production *via* inhibition of IFN $\gamma$ . *Proc Natl Acad Sci USA* 97:2174-2179, 2000. <http://www.ncbi.nlm.nih.gov/pubmed/10681439>
49. Arndt PG, **Fantuzzi G**, Abraham E. Expression of interleukin-18 in the lung after endotoxemia or hemorrhage-induced acute lung injury. *Am J Respir Cell Mol Biol* 22:708-713, 2000. <http://www.ncbi.nlm.nih.gov/pubmed/10837368>
50. Hong T, Andersen NA, Nielsen K, Karlsen AE, **Fantuzzi G**, Eizirik DL, Dinarello CA, Mandrup-Poulsen T. Interleukin-18 mRNA, but not interleukin-18 receptor mRNA, is constitutively expressed in islet  $\beta$ -cells and up-regulated by interferon- $\gamma$ . *Eur Cytokine Netw* 11:193-206, 2000. <http://www.ncbi.nlm.nih.gov/pubmed/10903798>
51. Kim SH, Reznikov LL, Stuyt RJL, Selzman CH, **Fantuzzi G**, Hoshino T, Young HA, Dinarello CA. Functional reconstitution and regulation of IL-18 activity by the IL-18R $\beta$  chain. *J Immunol* 166:148-154, 2001. <http://www.ncbi.nlm.nih.gov/pubmed/11123287>
52. **Fantuzzi G**, Reed DA, Qi M, Dinarello CA, Senaldi G. Role of interferon regulatory factor-1 in the regulation of IL-18 production and activity. *Eur J Immunol* 31:369-375, 2001. <http://www.ncbi.nlm.nih.gov/pubmed/11180100>
53. Gabay C, Gigley J, Sipe J, Arend WP, **Fantuzzi G**. Production of interleukin-1 receptor antagonist by hepatocytes is regulated as an acute-phase protein *in vivo*. *Eur J Immunol* 31:490-499, 2001. <http://www.ncbi.nlm.nih.gov/pubmed/11180114>
54. Vazquez-Torres A, **Fantuzzi G**, Edwards CK III, Dinarello CA, Fang FC. Defective localization of the NADPH phagocyte oxidase to Salmonella-containing phagosomes in tumor necrosis factor p55 receptor-deficient macrophages. *Proc Natl Acad Sci USA* 98:2561-2565, 2001. <http://www.ncbi.nlm.nih.gov/pubmed/11226278>
55. Melnikov VY, Ecder T, **Fantuzzi G**, Siegmund B, Lucia MS, Dinarello CA, Edelstein CL. Impaired IL-18 processing protects caspase-1-deficient mice from ischemic acute renal failure. *J Clin Invest* 107:1145-1152, 2001. <http://www.ncbi.nlm.nih.gov/pubmed/11342578>
56. Voegelings S, **Fantuzzi G**. Regulation of free and bound leptin and soluble leptin receptors during inflammation in mice. *Cytokine* 14:97-103, 2001. <http://www.ncbi.nlm.nih.gov/pubmed/11356010>
57. Novick D, Schwartsburd B, Pinkus R, Suissa D, Belzer I, Sthoeger Z, Keane WF, Chvatchko Y, Kim S-H, **Fantuzzi G**, Dinarello CA, Rubinstein M. A novel IL-18BP ELISA shows elevated serum

- IL-18BP in sepsis and extensive decrease of free IL-18. *Cytokine* 14:334-342, 2001.  
<http://www.ncbi.nlm.nih.gov/pubmed/11497494>
58. Siegmund B, **Fantuzzi G**, Rieder, F, Gamboni-Robertson F, Lehr HA, Hartmann G, Dinarello CA, Endres S, Eigler A. Neutralization of interleukin-18 reduces severity in murine colitis and intestinal IFN $\gamma$  and TNF $\alpha$  production. *Am J Physiol* 281:R1264-R1273, 2001.  
<http://www.ncbi.nlm.nih.gov/pubmed/11557635>
59. Siegmund B, Lehr HA, **Fantuzzi G**, Dinarello CA. IL-1 $\beta$ -converting enzyme (caspase-1) in intestinal inflammation. *Proc Natl Acad Sci USA* 98:13249-13254, 2001.  
<http://www.ncbi.nlm.nih.gov/pubmed/11606779>
60. Wieland CW, Siegmund B, Senaldi G, Vasil ML, Dinarello CA, **Fantuzzi G**. Pulmonary inflammation induced by *Pseudomonas aeruginosa* lipopolysaccharide, phospholipase C and exotoxin. A: role of interferon regulatory factor-1. *Infect Immun* 70:1352-1358, 2002.  
<http://www.ncbi.nlm.nih.gov/pubmed/11854220>
61. Siegmund B, Lear-Kaul KC, Faggioni R, **Fantuzzi G**. Leptin deficiency, not obesity, protects mice from Con A-induced hepatitis. *Eur J Immunol* 32:552-560, 2002.  
<http://www.ncbi.nlm.nih.gov/pubmed/11828372>
62. Leoni F, Zaliani A, Bertolini G, Porro G, Pagani P, Pozzi P, Dona' G, Fossati G, Sozzani S, Azam T, Bufler P, **Fantuzzi G**, Goncharov I, Kim SH, Pomerantz BJ, Reznikov LL, Siegmund B, Dinarello CA, Mascagni P. The anti-tumor histone deacetylase inhibitor suberoylanilide hydroxamic acid exhibits anti-inflammatory properties via suppression of cytokines. *Proc Natl Acad Sci USA* 99:2995-3000, 2002. <http://www.ncbi.nlm.nih.gov/pubmed/11867742>
63. Chan ED, Choi HS, Cool C, Accurso FJ, **Fantuzzi G**. Interleukin-18 expression in cystic fibrosis lungs. *Chest* 121:84S-85S, 2002. <http://www.ncbi.nlm.nih.gov/pubmed/11893709>
64. Gatti S, Beck J, **Fantuzzi G**, Bartfai T, Dinarello CA. Effect of interleukin-18 on mouse core body temperature. *Am J Physiol* 282:R702-R709, 2002. <http://www.ncbi.nlm.nih.gov/pubmed/11832389>
65. Stuyt RJ, Netea MG, Verschueren I, **Fantuzzi G**, Dinarello CA, van der Meer JW, Kullberg BJ. Role of interleukin-18 in host defense against disseminated *Candida albicans* infection. *Infect Immun* 70:3284-3286, 2002. <http://www.ncbi.nlm.nih.gov/pubmed/12011026>
66. Siegmund B, Lehr HA, **Fantuzzi G**. Leptin: a pivotal mediator of intestinal inflammation. *Gastroenterology* 122:2011-2025, 2002. <http://www.ncbi.nlm.nih.gov/pubmed/12055606>
67. Perales MA, **Fantuzzi G**, Goldberg SM, Turk MJ, Mortazavi F, Busam K, Houghton AN, Dinarello CA, Wolchok JD. GM-CSF DNA induces specific patterns of cytokines and chemokines in the skin: implications for DNA vaccines. *Cytokines Cell Mol Ther* 7:125-133, 2002.  
<http://www.ncbi.nlm.nih.gov/pubmed/12850812>
68. Chmura K, Lutz RD, Chiba H, Numata MS, Choi HJ, **Fantuzzi G**, Voelker DR, Chan ED. *Mycoplasma pneumoniae* antigens stimulate interleukin-8. *Chest* 123:425S, 2003.  
<http://www.ncbi.nlm.nih.gov/pubmed/12629012>
69. Stuyt RJ, Kim SH, Reznikov LL, **Fantuzzi G**, Novick D, Rubinstein M, Kullberg BJ, van der Meer JW, Dinarello CA, Netea MG. Regulation of Staphylococcus epidermidis-induced IFN-gamma in whole human blood: the role of endogenous IL-18, IL-12, IL-1, and TNF. *Cytokine* 21:65-73, 2003.  
<http://www.ncbi.nlm.nih.gov/pubmed/12670445>

70. **Fantuzzi G**, Banda NK, Guthridge C, Vondracek A, Kim SH, Siegmund B, Azam T, Sennello JA, Dinarello CA, Arend WP. Generation and characterization of mice transgenic for human IL-18 binding protein isoform a. *J Leukoc Biol* 74: 889, 2003. <http://www.ncbi.nlm.nih.gov/pubmed/12960225>
71. Bossù P, Neumann D, Del Giudice E, Ciaramella A, Gloaguen I, **Fantuzzi G**, Dinarello CA, Di Carlo E, Musiani P, Meroni PL, Caselli G, Ruggiero P, Boraschi D. IL-18 cDNA vaccination protects mice from spontaneous lupus-like autoimmune disease. *Proc Natl Acad Sci USA* 100:14181, 2003. <http://www.ncbi.nlm.nih.gov/pubmed/14615579>
72. Shaklee CL, Guo J, Faggioni R, **Fantuzzi G**, Senaldi G. Pretreatment with granulocyte-colony stimulating factor decreases lipopolysaccharide-induced interferon- $\gamma$  production in mice in association with the production of interleukin-18. *Cytokine* 25:119, 2004. <http://www.ncbi.nlm.nih.gov/pubmed/14698138>
73. Wang W, Poole B, Mitra A, **Fantuzzi G**, Lucia S, Schrier R. Role of leptin deficiency in early acute renal failure during endotoxemia in *ob/ob* mice. *J Am Soc Nephrol* 15: 645, 2004. <http://www.ncbi.nlm.nih.gov/pubmed/14978166>
74. Siegmund B, Sennello JA, Jones-Carson J, Gamboni-Robertson F, Lehr HA, Batra A, Fedke I, Zeitz M, **Fantuzzi G**. Leptin receptor expression on T lymphocytes modulates chronic intestinal inflammation in mice. *Gut* 53:965-972, 2004. <http://www.ncbi.nlm.nih.gov/pubmed/15194645>
75. Siegmund B, Sennello JA, Lehr HA, Senaldi G, Dinarello CA, **Fantuzzi G**. Interferon regulatory factor-1 as a protective factor in intestinal inflammation: role of TCR  $\gamma\delta$  cells and interleukin-18 binding protein. *Eur J Immunol* 34:2356, 2004. <http://www.ncbi.nlm.nih.gov/pubmed/15307168>
76. Siegmund B, Sennello JA, Lehr HA, Batra A, Fedke I, Zeitz M, **Fantuzzi G**. Development of intestinal inflammation in double IL-10- and leptin-deficient mice. *J Leukoc Biol* 76:782-786, 2004. <http://www.ncbi.nlm.nih.gov/pubmed/15240754>
77. Montez JM, Soukas A, Asilmaz, E, Fayzikhidjaeva G, **Fantuzzi G**, Friedman JM. Acute leptin deficiency, leptin resistance, and the physiologic response to leptin withdrawal. *Proc Natl Acad Sci USA* 102:2537-2542, 2005. <http://www.ncbi.nlm.nih.gov/pubmed/15699332>
78. Sennello JA, Fayad R, Morris AM, Eckel RH, Asilmaz E, Montez J, Friedman JM, Dinarello CA, **Fantuzzi G**. Regulation of T cell-mediated hepatic inflammation by adiponectin and leptin. *Endocrinology* 146:2157-2164, 2005. <http://www.ncbi.nlm.nih.gov/pubmed/15677756>
79. Fayad R, Sennello JA, Kim SH, Pini M, Dinarello CA, **Fantuzzi G**. Induction of thymocyte apoptosis by systemic administration of Concanavalin A in mice: role of TNF $\alpha$ , IFN $\gamma$  and glucocorticoids. *Eur J Immunol* 35:2304-2312, 2005. <http://www.ncbi.nlm.nih.gov/pubmed/16047339>
80. Jones-Carson J, **Fantuzzi G**, Siegmund B, Dinarello CA, Tracey KJ, Wang H, Fang FC, Vazquez-Torres A. Suppressor  $\alpha\beta$  T lymphocytes control innate resistance to endotoxic shock. *J Infect Dis* 192:1039-1046, 2005. <http://www.ncbi.nlm.nih.gov/pubmed/16107957>
81. **Fantuzzi G**, Sennello JA, Batra A, Fedke, I, Kehr HA, Zeitz M, Siegmund B. Defining the role of T cell-derived leptin in the modulation of hepatic or intestinal inflammation in mice. *Clin Exp Immunol* 142:31-38, 2005. <http://www.ncbi.nlm.nih.gov/pubmed/16178853>
82. Wieland CW, Florquin S, Chan ED, Leemans JK, Weijer S, Verbon A, **Fantuzzi G**, van der Poll T. Pulmonary *Mycobacterium tuberculosis* infection in leptin-deficient *ob/ob* mice. *Int Immunol* 17:1399-1408, 2005. <http://www.ncbi.nlm.nih.gov/pubmed/16141243>
83. Leoni F, Fossati G, Lewis EC, Lee JK, Porro G, Pagani P, Modena D, Moras ML, Pozzi P, Reznikov LL, Siegmund B, **Fantuzzi G**, Dinarello CA, Mascagni P. The histone deacetylase inhibitor ITF2357

- reduces production of pro-inflammatory cytokines in vitro and systemic inflammation in vivo. *Mol Med* 11:1-15, 2005. <http://www.ncbi.nlm.nih.gov/pubmed/16557334>
84. Morris AM, Sennello JA, Fayad R, Eckel RH, Dinarello CA, **Fantuzzi G**. T cell-mediated hepatic inflammation modulates adiponectin levels in mice: role of tumor necrosis factor  $\alpha$ . *Metabolism* 55:555-559, 2006. <http://www.ncbi.nlm.nih.gov/pubmed/16546488>
  85. Glauben R, Batra A, Fedke I, Zeitz M, Lehr HA, Leoni F, Mascagni P, **Fantuzzi G**, Dinarello CA, Siegmund B. Histone hyperacetylation is associated with amelioration of experimental colitis in mice. *J Immunol* 176:5015-5022, 2006. <http://www.ncbi.nlm.nih.gov/pubmed/16585598>
  86. Wieland CW, Stegenga ME, Florquin S, **Fantuzzi G**, van der Poll T. Leptin and host defense against gram-positive and gram-negative pneumonia in mice. *Shock* 25:414-419, 2006. <http://www.ncbi.nlm.nih.gov/pubmed/16670645>
  87. Pini M, Sennello JA, Chan L, **Fantuzzi G**. Adiponectin deficiency does not affect the inflammatory response to endotoxin or Concanavalin A in mice. *Endocrinology* 47:5019-5022, 2006. <http://www.ncbi.nlm.nih.gov/pubmed/16901963>
  88. Edwards CK 3rd, Bendele AM, Reznikov LI, **Fantuzzi G**, Chlipala ES, Li L, Moldawer LL, Mountz JD, Li YY, Dinarello CA. Soluble human p55 and p75 tumor necrosis factor receptors reverse spontaneous arthritis in transgenic mice expressing transmembrane tumor necrosis factor alpha. *Arthritis Rheum* 54:2872-2885, 2006. <http://www.ncbi.nlm.nih.gov/pubmed/16947419>
  89. Sennello JA, Fayad R, Pini M, Gove ME, **Fantuzzi G**. Transplantation of wild-type white adipose tissue normalizes metabolic, immune and inflammatory alterations in leptin-deficient *ob/ob* mice. *Cytokine*, 36 :261-266, 2006. <http://www.ncbi.nlm.nih.gov/pubmed/17368040>
  90. Fayad R, Pini M, Sennello JA, Cabay RJ, Chan L, Xu A, **Fantuzzi G**. Adiponectin deficiency protects mice from chemically-induced colonic inflammation. *Gastroenterology*, 132:601-614, 2007. <http://www.ncbi.nlm.nih.gov/pubmed/17258715>
  91. Rothenbacher D, Weyermann M, **Fantuzzi G**, Brenner H. Adipokines in cord blood and risk of wheezing disorders within the first two years of life. *Clin Exp Allergy*, 37:1143-1149, 2007. <http://www.ncbi.nlm.nih.gov/pubmed/17651143>
  92. Bryer SC, **Fantuzzi G**, Van Rooijen N, Koh TJ. Urokinase-type plasminogen activator plays essential roles in macrophage chemotaxis and skeletal muscle regeneration. *J Immunol*, 180:1179-1188, 2008. <http://www.ncbi.nlm.nih.gov/pubmed/18178858>
  93. Cheng M, Nguyen MH, **Fantuzzi G**, Koh TJ. Endogenous interferon-gamma is required for efficient skeletal muscle regeneration. *Am J Physiol Cell Physiol*, 294:C1183-C1191, 2008. <http://www.ncbi.nlm.nih.gov/pubmed/18353892>
  94. Sennello JA, Fayad R, Pini M, Gove ME, Ponemone V, Cabay RJ, Siegmund B, Dinarello CA, **Fantuzzi G**. Interleukin-18, together with Interleukin-12, induces severe acute pancreatitis in obese but not in non-obese leptin-deficient mice. *Proc Natl Acad Sci USA*, 105:8085-8091, 2008. <http://www.ncbi.nlm.nih.gov/pubmed/18515422>
  95. Pini M, Gove ME, Sennello JA, Chan L, **Fantuzzi G**. Role and regulation of adipokines during zymosan-induced peritoneal inflammation in mice. *Endocrinology*, 149:4080-4085, 2008. <http://www.ncbi.nlm.nih.gov/pubmed/18450950>

96. Baliga MS, Diwadkar-Navsariwala V, Koh T, Fayad R, **Fantuzzi G**, Diamond AM. Selenoprotein deficiency enhances radiation-induced micronuclei formation. *Mol Nutr Food Res*, 52:1300-1304, 2008. <http://www.ncbi.nlm.nih.gov/pubmed/18720346>
97. Gove ME, Rhodes DH, Pini M, van Baal JW, Sennello JA, Fayad R, Cabay RJ, Myers MG Jr, **Fantuzzi G**. Role of leptin receptor-induced STAT3 signaling in modulation of intestinal and hepatic inflammation in mice. *J Leukoc Biol*, 85:491-496, 2009. <http://www.ncbi.nlm.nih.gov/pubmed/19052144>
98. Pini M, Gove ME, Fayad R, Cabay RJ, **Fantuzzi G**. Adiponectin deficiency does not affect development and progression of spontaneous colitis in IL-10 knockout mice. *Am J Physiol Gastrointest Liver Physiol*, 296:G382-G387, 2009. <http://www.ncbi.nlm.nih.gov/pubmed/19074637>
99. Gove ME, Pini M, Fayad R, Cabay RJ, **Fantuzzi G**. Adiponectin deficiency modulates adhesion molecules expression and cytokine production but does not affect disease severity in the transfer model of colitis. *Cytokine*, 47:119-125, 2009. <http://www.ncbi.nlm.nih.gov/pubmed/19520591>
100. Joosten LA, Netea MG, **Fantuzzi G**, Koenders MI, Helsen MM, Sparrer H, Pham CT, van der Meer JW, Dinarello CA, van der Berg WB. Inflammatory arthritis in caspase-1 gene-deficient mice: Contribution of proteinase-3 to caspase-1-independent production of bioactive interleukin-1 $\beta$ . *Arthritis Rheum*, 60:3651-3662 2009. <http://www.ncbi.nlm.nih.gov/pubmed/19950280>
101. Pini M, **Fantuzzi G**. Enhanced production of IL-17A during zymosan-induced peritonitis in obese mice. *J Leukoc Biol*, 87: 51-28, 2010. <http://www.ncbi.nlm.nih.gov/pubmed/19745158>
102. Pini M, Sennello JA, Cabay RJ, **Fantuzzi G**. Effect of diet-induced obesity on acute pancreatitis induced by administration of interleukin-12 plus interleukin-18 in mice. *Obesity*, 18:476-81 2010. <http://www.ncbi.nlm.nih.gov/pubmed/19696761>
103. Wang Z, Yao T, Pini M, Zhou Z, **Fantuzzi G**, Song Z. Betaine improved adipose tissue function in mice fed a high-fat diet: a mechanism for hepatoprotective effect of betain in non-alcoholic fatty liver disease. *Am J Physiol Gastrointest Liver Physiol*. 298:G634-42, 2010. <http://www.ncbi.nlm.nih.gov/pubmed/20203061>
104. Tussing-Humphreys LM, Nemeth E, **Fantuzzi G**, Freels S, Guzman G, Holterman AX, Braunschweig C. Elevated Systemic Hepcidin and Iron Depletion in Obese Premenopausal Females. *Obesity*, 18:1449-56, 2010. <http://www.ncbi.nlm.nih.gov/pubmed/19816411>
105. Ponemone V, Fayad R, Gove ME, Pini M, **Fantuzzi G**. Effect of adiponectin deficiency on intestinal damage and hematopoietic responses in mice exposed to gamma radiation. *Mutat Res*, 7;690:102-107, 2010. <http://www.ncbi.nlm.nih.gov/pubmed/19583972>
106. Ponemone V, Keshavarzian A, Brand MI, Saclarides T, Abcarian H, Cabay RJ, Fletcher E, Larsen B, Durstine LJ, **Fantuzzi G**, Fayad R. Apoptosis and inflammation: role of adipokines in inflammatory bowel disease. *Clin Transl Gastroenterol*, 1:e1. doi: 10.1038/ctg.2010.1, 2010. <http://www.ncbi.nlm.nih.gov/pubmed/23238652>
107. Tussing-Humphreys LM, Nemeth E, **Fantuzzi G**, Freels S, Holterman AX, Galvani C, Ayloo, S, Vitello J, Braunschweig C. Decreased serum hepcidin and improved functional iron status 6 months after restrictive bariatric surgery. *Obesity*, 18:2010-2016, 2010. <http://www.ncbi.nlm.nih.gov/pubmed/20075851>
108. Gove ME, Sherry CL, Pini M, **Fantuzzi G**. Generation of leptin receptor bone marrow chimeras: recovery from irradiation, immune cellularity, cytokine expression and metabolic parameters. *Obesity*, 18:2274-2281, 2010. <http://www.ncbi.nlm.nih.gov/pubmed/20395950>

109. Joosten LA, Van de Veerdonk FL, Vonk AG, Boerman OC, Keuter M, **Fantuzzi G**, Verschueren I, Van Der Poll T, Dinarello CA, Kullberg BJ, Van Der Meer JW, Netea MG. Differential susceptibility to lethal endotoxaemia in mice deficient in IL-1 $\alpha$ , IL-1 $\beta$  or IL-1 receptor type I. *APMIS*, 118:1000-1007, 2010. <http://www.ncbi.nlm.nih.gov/pubmed/21091783>
110. Stienstra R, Joosten LA, Koenen T, van Tits B, van Diepen JA, van der Berg SA, Rensen PC, Voshol PJ, **Fantuzzi G**, Hijmans A, Kersten S, Muller M, van den Berg WB, van Rooijen N, Wabitsch M, Kullberg BJ, van der Meer JW, Kannegantu T, Tack CJ, Netea MG. The inflammasome-mediated caspase-1 activation controls adipocyte differentiation and insulin sensitivity. *Cell Metab*, 12:593-605, 2010. <http://www.ncbi.nlm.nih.gov/pubmed/21109192>
111. Tussing-Humphreys L, Pini M, Ponemone V, Braunschweig C, **Fantuzzi G**. Suppressed cytokine production in whole blood cultures may be related to iron status and hepcidin and is partially corrected following weight reduction in morbidly obese pre-menopausal women. *Cytokine*, 53:201-206, 2011. <http://www.ncbi.nlm.nih.gov/pubmed/21145254>
112. Wang Z, Pini M, Yao T, Zhou Z, Sun C, **Fantuzzi G**, Song Z. Homocysteine suppresses lipolysis in adipocytes by activating the AMPK pathway. *Am J Physiol Endocrinol Metab*, 301:E703-E712, 2011. <http://www.ncbi.nlm.nih.gov/pubmed/21750268>
113. Pini M, Rhodes DH, **Fantuzzi G**. Hematological and acute-phase responses to diet-induced obesity in IL-6 KO mice. *Cytokine*, 56:708-716, 2011. <http://www.ncbi.nlm.nih.gov/pubmed/21996012>
114. Pini M, Rhodes DH, Castellanos KJ, Hall AR, Cabay RJ, Chennuri R, Grady EF, **Fantuzzi G**. Role of IL-6 in the resolution of pancreatitis in obese mice. *J Leukocyte Biol*, 91:957-966, 2012. <http://www.ncbi.nlm.nih.gov/pubmed/22427681>
115. Pini M, Rhodes DH, Castellanos KJ, Cabay RJ, Grady EF, **Fantuzzi G**. Rosiglitazone improves survival and hastens recovery from pancreatic inflammation in obese mice. *PLoS ONE* 7: e40944, 2012. <http://www.ncbi.nlm.nih.gov/pubmed/22815875>
116. Fink AM, Gonzalez RC, Lisowski T, Pini M, **Fantuzzi G**, Levy WC, Piano MR. Fatigue, inflammation and projected mortality in heart failure. *J Card Fail*, 18:711-716, 2012. <http://www.ncbi.nlm.nih.gov/pubmed/22939040>
117. Holterman AX, Holterman M, Browne A, Henriques S, Guzman G, **Fantuzzi G**. Patterns of surgical weight loss and resolution of metabolic abnormalities in superobese bariatric adolescents. *J Pediatr Surg*, 47:1633-1639, 2012. <http://www.ncbi.nlm.nih.gov/pubmed/22974598>
118. Pini M, Rhodes DH, Castellanos KJ, **Fantuzzi G**. Obesity and IL-6 interact in modulating the response to endotoxemia in mice. *Cytokine*, 61:71-77, 2013. <http://www.ncbi.nlm.nih.gov/pubmed/23010503>
119. Huang ZH, Manickam B, Ryvkin V, Zhou XJ, **Fantuzzi G**, Mazzone T, Sam S. PCOS is associated with increased CD11c expression and crown-like structures in adipose tissue and increased central abdominal fat depots independent of obesity. *J Clin Endocrinol Metab*, 98:E17-24, 2013. <http://www.ncbi.nlm.nih.gov/pubmed/23118428>
120. Kartalija M, Ovrutsky AR, Bryan CL, Pott GB, **Fantuzzi G**, Thomas J, Strand MJ, Bai X, Ramamoorthy P, Rothman MS, Nagabhushanam V, Mc Dermott M, Lwvin AR, Frazer-Abel A, Giclas PC, Korner J, Iseman MD, Shapiro L, Chan ED. Patients with non-tuberculous mycobacterial lung disease exhibit unique body and immune phenotypes. *Am J Respir Crit Care Med*, 187:197:205, 2013. <http://www.ncbi.nlm.nih.gov/pubmed/23144328>

121. Pang J, Rhodes DH, Pini M, Akasheh RT, Castellanos KJ, Cabay RJ, Cooper D, Perretti M, **Fantuzzi G**. Increased adiposity, dysregulated glucose metabolism and systemic inflammation in Galectin-3 KO mice. *PLoS One*, 8:e57915, 2013. <http://www.ncbi.nlm.nih.gov/pubmed/23451284>
122. Rhodes DH, Pini M, Castellanos KJ, Montero-Melendez T, Cooper D, Perretti M, **Fantuzzi G**. Adipose tissue specific modulation of galectin expression in lean and obese mice: evidence for regulatory functions. *Obesity*, 21:310-319, 2013. <http://www.ncbi.nlm.nih.gov/pubmed/23401338>
123. Holterman AX, Guzman G, **Fantuzzi G**, Wang H, Aigner K, Browne A, Holterman M. Nonalcoholic fatty liver disease in severely obese adolescent and adult patients. *Obesity*, 21:591-597, 2013. <http://www.ncbi.nlm.nih.gov/pubmed/23592668>
124. Dorevitch S, Conroy L, Karadkhele A, Rosul L, Stacewicz-Sapuntzakis M, **Fantuzzi G**. Associations between obesity and asthma in a low-income, urban, minority population. *Ann Allergy Asthma Immunol*, 110:34-346, 2013. <http://www.ncbi.nlm.nih.gov/pubmed/23622004>
125. Akasheh R, Pini M, Pang, J, **Fantuzzi G**. Increased adiposity in annexin A1-deficient mice. *PLoS One*, 8: e82608, 2013. <http://www.ncbi.nlm.nih.gov/pubmed/24312665>
126. Malecki E, Castellanos KC, Cabay RJ, **Fantuzzi G**. Therapeutic Administration of Orlistat, Rosiglitazone, or the Chemokine Receptor Antagonist RS102895 Fails to Improve the Severity of Acute Pancreatitis in Obese Mice. *Pancreas*, 43:903-908, 2014. <http://www.ncbi.nlm.nih.gov/pubmed/24632545>
127. Braunschweig CA, Sheean PM, Peterson SJ, Gomez Perez S, Freels S, Lateef O, Gurka D, **Fantuzzi G**. Intensive Nutrition in Acute Lung Injury: A Clinical Trial (INTACT). *JPEN*, April 8 2014, Epub ahead of print. <http://www.ncbi.nlm.nih.gov/pubmed/24722769>
128. Pusatcioglu C, Nemeth E, **Fantuzzi G**, Llor X, Freels S, Tussing-Humphreys L, Cabay RJ, Linzmeier R, Ng D, Clark J, Braunschweig C. Systemic and tumor level iron regulation in men with colorectal cancer: a case-control study. *Nutr Metab*, 11:21, 2014. <http://www.ncbi.nlm.nih.gov/pubmed/24872837>
129. Nguyen VT, Li X, Castellanos KJ, **Fantuzzi G**, Mazzone T, Braunschweig CA. The accuracy of vitamin D assays of circulating 25-hydroxyvitamin D values: influence of 25-hydroxylated ergocalciferol concentration. *J AOAC Int*, 97:1048-1055, 2014. <http://www.ncbi.nlm.nih.gov/pubmed/25145136>
130. York JM, Castellanos KJ, Cabay RJ, **Fantuzzi G**. Inhibition of the NLRP3 inflammasome reduces the severity of experimentally-induced acute pancreatitis in obese mice. *Transl Sci*, 164: 259-269, 2014. <http://www.ncbi.nlm.nih.gov/pubmed/25152324>
131. Turyk M, **Fantuzzi G**, Persky V, Freels S, Lambertino A, Pini M, Rhodes DH, Anderson HA. Persistent organic pollutants and biomarkers of diabetes risk in a cohort of Great Lakes sport caught fish consumers. *Environmental Res*, 140:335-344, 2015.
132. Nguyen VT, Li X, Elli EF, Ayloo SM, Castellanos KJ, **Fantuzzi G**, Freels S, Braunschweig CL. Vitamin D, inflammation, and relations to insulin resistance in premenopausal women with morbid obesity. *Obesity*, 23:1591-1597, 2015. <http://www.ncbi.nlm.nih.gov/pubmed/26148304>
133. Stolley MR, Sharp LK, **Fantuzzi G**, Arroyo C, Sheean P, Schiffer L, Campbell R, Gerber B. Study design and protocol for moving forward: a weight loss intervention trial for African-American breast cancer survivors. *BMC Cancer*, 15:1018, 2015. <http://www.ncbi.nlm.nih.gov/pubmed/26715447>

134. Hacker ED, Fink AM, Peters T, Park C, Fantuzzi G, Rondelli D. Persistent fatigue in hematopoietic stem cell transplantation survivors. *Cancer Nurs*, Epub ahead of print. <http://www.ncbi.nlm.nih.gov/pubmed/27333126>
135. Qiang G, Whang Kong H, Xu S, Pham HA, Parlee SD, Burr AA, Gil V, Pang J, Hughes A, Gu X, **Fantuzzi G**, MacDougald OA, Liew CW. Lypodistrophy and severe metabolic dysfunction in mice with adipose tissue-specific insulin receptor ablation. *Mol Metab*, 5:480-490, 2016. <http://www.ncbi.nlm.nih.gov/pubmed/27408774>
136. Pang J, Nguyen VT, Shodes DH, Sullivan ME, Braunschweig C, **Fantuzzi G**. Relationship of galectin-3 with obesity, IL-6, and CRP in women. *J Endocrinol Invest*, 39: 1435-1443, 2016. <http://www.ncbi.nlm.nih.gov/pubmed/27444618>
137. Braunschweig CL, Freels S, Sheean PM, Peterson SJ, Perez SG, McKeever, L, Lateef O, Gurka D, **Fantuzzi G**. Role of timing and dose of energy received in patients with acute lung injury on mortality in the Intensive Nutrition in Acute Lung Injury Trial (INTACT): a post hoc analysis. *Am J Clin Nutr*, 105:411-416, 2017. <https://www.ncbi.nlm.nih.gov/pubmed/27974311>
138. Kim SK, Chen Z, Essani AB, Elshabrawy HA, Volin MV, **Fantuzzi G**, McInnes IB, Baker JF, Finn P, Kondos G, Volkov S, Swelder W, Arami S, Sweiss N, Shahrara S. Differential impact on obesity on the pathogenesis of TA or preclinical models is contingent on the disease status. *Ann Rheum Dis*, Epub ahead of print. <https://www.ncbi.nlm.nih.gov/pubmed/27797749>

#### BOOK CHAPTERS, REVIEW ARTICLES AND COMMENTARIES

1. Scorza R, Hu C, Radelli L, **Fantuzzi G**, Grassi C, Molteni M. Neuroendocrine regulation of NK cell function. In: *BRM. Biological Response Modifiers. Applications in clinical medicine*. Indiveri F, Puppo F, Scudeletti M, Eds. Societa' Editrice Esculapio, Bologna, Italy. Pg. 203-219, 1990.
2. **Fantuzzi G**, Ghezzi P. Glucocorticoids as cytokine inhibitors: role in neuroendocrine control and therapy of inflammatory diseases. *Mediat Inflamm* 2:263-270, 1993. <http://www.ncbi.nlm.nih.gov/pubmed/18475532>
3. **Fantuzzi G**, Faggioni R, Benigni F, Ghezzi P. Cytokines and the brain: central production and neuroendocrine feedback. In: *The immune consequences of trauma, shock and sepsis. Mechanisms and therapeutic approaches*. Faist E, Baue A, Schildberg FW, Eds. Pabst Science Publishers, Wien, Austria. Pg. 362-367, 1997. [http://books.google.es/books/about/Immune\\_consequences\\_of\\_trauma\\_shock\\_and.html?id=5k5sAA\\_AAMAAJ](http://books.google.es/books/about/Immune_consequences_of_trauma_shock_and.html?id=5k5sAA_AAMAAJ)
4. **Fantuzzi G**, Dinarello CA. Interleukin-1 $\beta$ -deficient mice. In: *Cytokine knockouts*. Durum SK, Muegge K, Eds. Humana Press, Totowa, NJ. Pg. 129-153, 1998. [http://books.google.com/books/about/Cytokine\\_knockouts.html?id=9RhrAAAAMAAJ](http://books.google.com/books/about/Cytokine_knockouts.html?id=9RhrAAAAMAAJ)
5. Dinarello CA, Novick D, Puren AJ, **Fantuzzi G**, Shapiro L, Muhl H, Yoon D-Y, Reznikov LL, Kim, S-H, Rubinstein M. Overview of interleukin-18: more than an interferon- $\gamma$  inducing factor. *J Leukoc Biol* 63:658-664, 1998. <http://www.ncbi.nlm.nih.gov/pubmed/9620656>
6. **Fantuzzi G**, Dinarello CA. Interleukin-18 and interleukin-1 $\beta$ : two cytokine substrates for ICE (caspase-1). *J Clin Immunol* 19:1-11, 1999. <http://www.ncbi.nlm.nih.gov/pubmed/10080100>
7. Suffredini AF, **Fantuzzi G**, Badolato R, Oppenheim JJ, O'Grady NP. New insights into the biology of the acute phase response. *J Clin Immunol* 19:203-214, 1999. <http://www.ncbi.nlm.nih.gov/pubmed/10471974>



8. **Fantuzzi G**, Faggioni R. Leptin in the regulation of immunity, inflammation and hematopoiesis. *J Leukoc Biol* 68:437-446, 2000. <http://www.ncbi.nlm.nih.gov/pubmed/11037963>
9. Dinarello CA, **Fantuzzi G**. Importance of the interleukin-1 $\beta$ -converting enzyme in disease mediated by the proinflammatory cytokines IL-1 $\beta$  and IL-18. In: *Cytokine inhibitors*. Ciliberto G, Savino R, Eds. Marcel Dekker, Inc., New York, NY. Pg. 1-32, 2000. <http://www.ebooks.com/216052/cytokine-inhibitors/ciliberto-gennaro-savino-rocco/>
10. **Fantuzzi G**. Lessons from interleukin-deficient mice. The interleukin-1 system. *Acta Physiol Scand* 173:5-9, 2001. <http://www.ncbi.nlm.nih.gov/pubmed/11678721>
11. Dinarello CA, **Fantuzzi G**. Interleukin 18 and host defense against infection. *J Infect Dis* 187:S125-S133, 2003. <http://www.ncbi.nlm.nih.gov/pubmed/12792854>
12. **Fantuzzi G**. Adipose tissue, adipokines and inflammation. *J Allergy Clin Immunol* 115:911-919, 2005. <http://www.ncbi.nlm.nih.gov/pubmed/15867843>
13. **Fantuzzi G**. Leptin: nourishment for the immune system. *Eur J Immunol* 36:3101-3104, 2006. <http://www.ncbi.nlm.nih.gov/pubmed/17125140>
14. **Fantuzzi G**, Mazzone T. Adipose tissue and atherosclerosis. Exploring the connection. *Arterioscler Thromb Vasc Biol* 27:996-1003, 2007. <http://www.ncbi.nlm.nih.gov/pubmed/17303782>
15. **Fantuzzi G**. Adiponectin and inflammation: consensus and controversy. *J Allergy Clin Immunol*, 121:326-330, 2008. <http://www.ncbi.nlm.nih.gov/pubmed/18061654>
16. **Fantuzzi G**. Three questions about leptin and immunity. *Brain Behav Immun*, 23:405-410, 2009. <http://www.ncbi.nlm.nih.gov/pubmed/18996468>
17. **Fantuzzi G**. Adiponectin and Inflammation. *Am J Physiol Endocrin Metab*, 296: E397, 2009. (Letter to the Editor). <http://www.ncbi.nlm.nih.gov/pubmed/19171845>
18. Gove ME, **Fantuzzi G**. Adipokines and inflammation. In: *Adipose tissue and inflammation*. Awad AB, Bradford PJ, Eds. CRC Press, Boca Raton FL. Pg. 83-97, Taylor & Francis, London, UK. Pag. 2009. <http://www.ebooks.com/565795/adipose-tissue-and-inflammation/awad-atif-b-ed--bradford-peter-g-ed/>
19. **Fantuzzi G**. Response to: Evolutionary speculation about tuberculosis and the metabolic and inflammatory processes of obesity. *JAMA*, 302:1754, 2009. (Letter to the Editor). <http://www.ncbi.nlm.nih.gov/pubmed/19861665>
20. Gove ME, **Fantuzzi G**. Adipokines, nutrition and obesity. In: *Preventive nutrition. The comprehensive guide for health professionals, Fourth edition*. Bendich A, Deckelbaum RJ, Eds. Springer, New York, NY. Pg. 419-431, 2009. <http://www.springer.com/new+%26+forthcoming+titles+%28default%29/book/978-1-60327-541-5>
21. **Fantuzzi G**. Cytokines: pulling the body together as a whole. *ScientificWorldJournal*, 11:2506-2508, 2011. <http://www.ncbi.nlm.nih.gov/pubmed/22235181>
22. Akasheh RT, Pang J, York JM, **Fantuzzi G**. New pathways to control inflammatory responses in adipose tissue. *Curr Opin Pharmacol*, 13:613-617, 2013. <http://www.ncbi.nlm.nih.gov/pubmed/23648270>

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23. Fantuzzi G. Mesenchymal stem cells in experimental acute pancreatitis: issues with data interpretation. *Gastroenterology*, 145:256-257, 2013. (Letter to the Editor).  
<http://www.ncbi.nlm.nih.gov/pubmed/23727495>
24. **Fantuzzi G.** Adiponectin in inflammatory and immune-mediated diseases. *Cytokine*, 64:1-10, 2013.  
<http://www.ncbi.nlm.nih.gov/pubmed/23850004>
25. **Fantuzzi G.** The sound of health. *Front Immunol*, 5:2014:00351.  
<http://journal.frontiersin.org/Journal/10.3389/fimmu.2014.00351/full>
26. **Fantuzzi G.** Health versus disease as the catalyst for biomedical research: the science of adipokines as a case in point. *Front Endocrinol*, 5:2014:00136.  
<http://journal.frontiersin.org/Journal/10.3389/fendo.2014.00136/full>

### BOOK EDITING

1. Cytokine Knockouts. 2<sup>nd</sup> E Edition. **Fantuzzi G**, Editor. Humana Press, Totowa, New Jersey, 2003.  
<http://www.nature.com/icb/journal/v82/n1/full/icb200415a.html>
2. Adipose tissue and adipokines in health and disease. **Fantuzzi G**, Mazzone T, Editors. Humana Press, Totowa, New Jersey, 2007. <http://link.springer.com/book/10.1007%2F978-1-59745-370-7>
3. Adipose tissue and adipokines in health and disease. 2<sup>nd</sup> Edition. **Fantuzzi G**, Braunschweig C, Editors. Humana Press, Totowa, New Jersey, 2014.  
<http://www.springer.com/new+%26+forthcoming+titles+%28default%29/book/978-1-62703-769-3>

### BOOK WRITING

1. Body messages. **Fantuzzi G**. Harvard University Press, Cambridge, MA, September 26, 2016.

## TEACHING AND MENTORING ACTIVITIES

### COURSE RESPONSIBILITIES

- HN318, Genetic, Molecular and Cellular Mechanisms of Chronic Diseases.
- HN503, Advanced Pathophysiology.
- HN594, Writing Good Research Articles: Good Data is not Enough.

### CO-INSTRUCTOR AND COORDINATOR

- HN594, Cells to Community: Research in the Department of Kinesiology and Nutrition.

### MENTORING ACTIVITIES

- Mentor. Crohn's and Colitis Foundation of America Career Development Award, Role of adipokines in inflammatory bowel diseases
  - Mentee: Raja Fayad, MD, 2006-2009
- Co-Director and Mentor. NIH T32DK080674, Diabetes, Nutrition and Obesity Research Training Program, PI: Terry Unterman
  - Mentee: Jason M. York, PhD, 2012-2104
- Mentor: NIH T32DK007788, Molecular training in gastroenterology and hepatology. PI: Pradeep Dudeja
  - Mentee: Elise Malecki, MD, PhD, 2011-2014
- Mentor. Building Interdisciplinary Research Careers in Women's Health Scholar Program.
  - Mentee: Lisa Tussing-Humphreys, RD, PhD, 2013-2015

### GRADUATE STUDENT ADVISOR

- Melissa (Gove) Farb, PhD, 2004-2007  
*Dissertation title: Adiponectin in Inflammatory Bowel Disease.*
- Davina Rhodes, MS, 2005-2007  
*Thesis title: Profile of inflammatory factors in mesenteric fat in a dextran sodium sulfate-induced colitis mouse model.*
- Christiana McMorran, MS, 2006-2008  
*Thesis title: Immunophenotyping T cell subset populations in adiponectin deficient mice.*
- Sarah Olender, MS, 2007-2010  
*Thesis title: White blood cell and hemoglobin response in combination alternate day fasting and exercise interventions.*

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- Margaret Sullivan, MS, 2010-2012  
*Thesis title: Modulation of the IL-6 system and STAT-3 activation in lymphocytes of lean and obese women.*
- Rand Akasheh, MS, 2010-2012  
*Thesis title: Annexin A1 regulates adiposity in mice.*
- Jingbo Pang, MS, 2010-2012  
*Thesis title: Galectin-3 in obesity.*
- Jingbo Pang, PhD, 2012-2016  
*Dissertation title: Galectin-3 in obesity and endotoxin-induced inflammation.*
- Yimin Chen, PhD, 2011-present
- Rand Akasheh, PhD, 2012-present

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**SERVICE ACTIVITIES****SERVICE TO THE PROFESSION****Grant reviewer**

Reviewer for NIH:

- Ad-hoc member, Special emphasis panel on Metabolism, Energy Balance and Immune Response, June 2007
- Ad-hoc member, Gastrointestinal Mucosal Pathobiology Study Section, June 2008 and October 2009
- Ad-hoc member, Gastrointestinal Mucosal Pathobiology Study Section, October 2009
- Ad-hoc member, Tumor Microenvironment Study Section, February 2011
- Chartered member, Tumor Microenvironment Study Section, October 2011- June 2015
- Ad-hoc member, Special Emphasis Panel on Diabetes and Obesity, July 2013

Appointed reviewer:

- Research Foundation Flanders, Belgium. 2016-2019

Ad-hoc reviewer for other funding agencies:

- |  |                                       |
|--|---------------------------------------|
| • AAAS Research Program                                  | • National Swiss Foundation           |
| • American Diabetes Association                          | • Telethon Italia                     |
| • Broad Medical Research Program                         | • United States Department of Defense |
| • US Department of Defense                               | • UIC Cancer Center                   |
| • French National Research Agency                        | • UIC Researcher of the Year Award    |
| • Hong Kong General Research Fund                        | • UIC Multidisciplinary Pilot Grants  |
| • Israeli Science Foundation                             | • UK Diabetes Foundation              |
| • Italian Minister of Education, University and Research | • Wellcome Trust                      |

**Manuscript reviewer**

Editorial boards:

- Associate Editor, *Journal of Immunology*, 2006-2009
- Associate Editor, *World Journal of Gastroenterology* 2009 – 2010
- Guest Editor, Mediators of Inflammation in Obesity and Its Co-Morbidities, Special issue of *Mediators of Inflammation*, 2009
- Associate Editor, *Mediators of Inflammation*, 2009–2013
- Special Topic Editor, Effect of Obesity on Inflammatory Diseases, *Frontiers in Immunology*, 2014
- Associate Editor, *American Journal of Physiology – Gastrointestinal and Liver Physiology*, 2015-present

Ad-hoc reviewer:

- |                                  |                                     |
|----------------------------------|-------------------------------------|
| • American Journal of Physiology | • Frontiers in Immunology           |
| • Arthritis Research             | • Gastroenterology                  |
| • Blood                          | • Gut                               |
| • Diabetes                       | • Journal of Clinical Investigation |
| • Endocrinology                  | • Journal of Immunology             |
| • European Journal of Immunology | • Journal of Leukocyte Biology      |

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- Metabolism
- Nature Reviews in Immunology
- Obesity
- Pancreas
- PLoS ONE
- Proceedings of the National Academy of Sciences USA
- Science
- Science Translational Medicine
- Stress
- Trends in Pharmacological Science

## **SERVICE TO THE UNIVERSITY**

### **Department of Kinesiology and Nutrition**

- Member of the Graduate student evaluation committee, 2008-2010 (Chair in 2010)
- Chair of the Search Committee, three tenure-track faculty positions in Nutrition, 2007-2008
- Associate Director of Graduate Studies, 2009-present
- Member of the Search Committee, one tenure-track faculty position in Exercise Physiology, 2010
- Member of the Faculty Advisory Committee, 2011-2013
- Member of the Search Committee, one tenure-track faculty position in Neuroscience, 2012-2013
- Organizer, Graduate Research Day "*Cells to Community*", 2012-present
- Co-chair of the Search Committee, Head of the Department of Kinesiology and Nutrition, 2016-2017

### **College of Applied Health Sciences**

- Member of the Executive Committee, 2005-2006, 2009-2010
- Member of the Faculty Committee, 2005-2008
- Member of the Steering Committee of the Urban Allied Health Academy, 2005-2009
- Member of the 5-year evaluation committee for the Head of the Department of Kinesiology and Nutrition, 2014

### **Campus-level committees**

- Member of the Facilities Subcommittee of the Animal Care Committee, 2006-2010
- Member of the Faculty Senate, 2007-2010
- Member of the Research Advisory Committee, 2007-2010
- Member of the Internal Advisory Committee of the UIC Cancer Education and Career Development Program, 2008- present
- Member of the Campus Research Board, Basic Life Sciences subcommittee, 2008-2010
- Member of the Search Committee, Dean of Applied Health Sciences, 2010-2011
- Vice Chair of the Campus Research Board, Basic Life Sciences subcommittee, 2010-2013
- Chief Steward, UIC United Faculty, 2011-2014
- Member of the Graduate College Executive Committee, 2013-2015
- Member of the UIC Senate Research Committee, 2014-present
- Member of the Student Success Initiative – Adaptive Software Subcommittee, 2016-present.