CURRICULUM VITAE

Name: Tamás Jilling, M.D.

ACADEMIC APPOINTMENTS:

1997 – 2008	Assistant Professor Department of Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, IL
2008 – 2009	Research Associate Professor Department of Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, IL
2012 – current	Associate Professor of Pediatrics, Department of Pediatrics, Division of Neonatology, University of Alabama at Birmingham, Birmingham, AL

HOSPITAL APPOINTMENTS

1997 –2012	Affiliate Staff, NorthShore University HealthSystem of Illinois

ADMINISTRATIVE APPOINTMENTS

2006 – 2012	The Ellrodt-Schweighauser Family Chair of Perinatal Research, NorthShore University HealthSystem of Illinois

HONORS AND AWARDS

1985 – 1987	Scholarship of the University Medical School Pécs for student researchers.
	Dean's First Place Award for thesis, The role of Ca^{2+} and Mg^{2+} in protein-DNA complexes. University Medical School Pécs.
1987 – 1989	Scholarship of the Hungarian Academy of Sciences.
1990 – 1993	Research Fellowship of the Cystic Fibrosis Foundation (USA).
1997 – 2007	The Jessica Jacobi Golder Endowment
2006 – 2012	The Ellrodt-Schweighauser Family Chair of Perinatal Research

EDUCATION

Institution	Degree	Year
University Medical School Pécs, Hungary current name: University of Pécs, Faculty of Medicine	M.D.	1987

Training

Hungarian Academy of Sciences — Academy Scholar — 10/1987 -02/1989
Department of Clinical Chemistry
University Medical School Pécs.
The role of Ca^{2+} and Mg^{2+} ions in protein-protein, protein-DNA interactions in isolated nuclei.

UAB Department of Physiology & Biophysics — Postdoctoral Fellow — 03/1989 -04/1990
The role of intracellular vesicle transporting mechanisms in the regulation of Cl permeability and mucin secretion in cultured epithelial cells

Cystic Fibrosis Foundation — Research Fellow — 05/1990 -04/1993
UAB Department of Physiology & Biophysics
Vesicle trafficking and Cl^- permeability regulation.

UAB Department of Physiology & Biophysics — Postdoctoral Fellow — 05/1993 -05/1997
Studies on immunoglobulin transcytosis and protein secretion by epithelial cells

MILITARY SERVICE

1988-1989 #2 Military Hospital, Pécs, Hungary

PROFESSIONAL SERVICE

Professional Committees

2002 – present	Served on the Thesis Committee for the following graduate students: Blaine Stine (IBIS), Danielle Lodewyck (Communications), Dimitar Ivanov (IBIS), Jeffrey Broussard (IBIS), Qianru Zhang (Communications)
2009 – 2012	Research Advisory Committee, NorthShore University HealthSystem Research Institute, Illinois
2003 – 2009	Research and Education Subcommittee, NorthShore University HealthSystem, Illinois
2005 – 2006	Northwestern University Feinberg School of Medicine Biotechnology Facility Advisory Committee, Chicago, IL
2006 – 2008	Ancillary Information Systems Committee, Evanston Northwestern Healthcare (currently NorthShore University HealthSystem), Chicago, IL
2006 – 2007	Northwestern University IBIS program admissions committee

Professional Memberships

1993 – present	American Society for Cell Biology.
1999 – present	International Society for Research on Human Milk and Lactation.
2002 – present	Society for Pediatric Research
2003 – present	American Physiological Society

Professional Societies

2007 – present	Editorial Board: Clinical Medicine Insights: Gastroenterology
2010 – present	Editorial Board: International Journal of Physiology, Pathophysiology and Pharmacology
2003 – 2012	Pilot Project Review Committee NorthShore, University HealthSystem Research Institute
2006	Mail in Reviewer MABS/NIH CSR
2009	Mail in Reviewer NIH/CSR
2011	GMPB/NIH CSR
2009 – present	Invited reviewer for The Wellcome Trust, Great Britain
1991 – present	Reviewing for: American Journal of Gastroenterology, AJP Cell Physiology, AJP Gastrointestinal and Liver Physiology, Cell Motility and the Cytoskeleton, Journal of General Physiology, Journal of Clinical Investigation, Pediatric Research, Physiological Chemistry and Physics and Medical NMR, BBA, PlosOne, Developmental Neuroscience, Clinical Science, Gastroenterology, J. Immunology, Neonatology

TEACHING

1987 – 1989	Physiology Lab for 1st year medical students: Physiology of the blood and hematopoietic system. The clinical chemistry of blood.
1989 – present	Trained several graduate students in fluorescence digital imaging microscopy, molecular biology and protein chemistry techniques, research design and implementation, manuscript preparation and proposal writing.
1991 – 1994	Served as mentor in the Minority High-school Students' Summer Fellowship program, Birmingham, AL.
1997 – present	Served as mentor for the following Fellows in Neonatology: Erika Claud, MD (currently associate professor at University of Chicago). Dyan Simon, MD (currently in private practice in Seattle), Malika Shah, MD (currently assistant professor at Northwestern University), Brandy Frost MD (currently attending physician at ENH) Veeral Tolia, MD (currently attending in Dallas Texas)
1998 – 1999	DO3 IBiS Cell Biology, Transport across membranes (NWU)
2000 – present	Served as mentor for the following undergraduate students (honors thesis): Anita Saraf (graduated MD/PhD at Rice University, currently Fellow in Cardiology at Emory University), Marko Mircetic (graduated MD at Johns Hopkins University, currently resident at Baylor College of Medicine), Julia Foldi (graduated PhD at Cornell University, currently medical student at NYU School of Medicine)
2000 – 2003	Special topics course (IBIS, NWU) "Epithelial structure and function"
2006 – present	Mentor/Thesis Advisor for Marla Issac (Graduate student, IBIS)
2007 – present	Mentor/Thesis Advisor for Marina Pazin (Graduate student, IBIS)
2009 – 2010	Mentor for Erica Carlisle MD (Surgery resident at the U of C)
2010 – 2012	Preceptor for Fulbright Scholar: Dr Zoltan Kispal

Major Past and Current Grant Awards

The Ellrodt-Schweighauser Family Chair of Perinatal Research
NorthShore University HealthSystem

1RO1DK062960

NIH/NIDDK
Project Title: PAF Receptor Trafficking and Function in Epithelial Cells
Role: Principal Investigator

R01 HD056118-01A1
NIH
Project Title: Toll-like receptor signaling in the pathogenesis and prevention of prematurity
Role: Co-Investigator; Principal Investigator, Hirsch

2R01HD037581
NIH/NICHD
Project Title: The Role of PAF and TLR in NEC
Role: Co-Investigator; Principal Investigator, Caplan

1R01HD046968
NIH/NICHD
Role: Consultant; Principal Investigator Neerhof
Project Title: Mechanisms of Vasoactive Mediator Action in FGR

1R01DC007932
NIH
Project Title: Laryngeal hydration aerosol for prevention of voice disorders
Role: Co-Investigator; Principal Investigator, Fisher

1R01HD042581
NIH/NICHD
Title: ET and PAF Synergism in intrauterine growth restriction
Role: Consultant; Principal Investigator, Thaete

The Jessica Jacobi Golder Endowment
Evanston Northwestern Healthcare
Title: Studies on the inflammatory regulation of the cystic fibrosis transmembrane conductance regulator."
Role: Principal Investigator

Research Career Development Award
Evanston Northwestern Healthcare
Title: Studies on PAFR biology
Role: Principal Investigator

1-RO1-HD37581-01A1
NIH/NIDDK
Projgect Title: Pathogenesis of experimental necrotizing enterocolitis.
Role: Co- Investigator; Principal Investigator, Caplan

6-FY05-86
March of Dimes
Project Title: PAF and TLR interaction in neonatal NEC
Role: Co-Investigator; Principal Investigator, Caplan

6-FY99-278
March of Dimes
Project Title: Pathogenesis of Necrotizing Enterocolitis
Role: Co- Investigator; Principal Investigator, Caplan

INVITED PRESENTATIONS

1. **Jilling T.** The Biology of Cystic Fibrosis, *NATO Advanced Study Sessions:* Disease Markers in Exhaled Breath: Basic Mechanisms and Clinical Applications, Organizers: Marczin N and Yacoub MH, Crete, 2001. (invited presentation)

2. **Jilling T.** Mechanisms of platelet-activating factor-induced apoptosis in enterocytes: The role of PI3 kinase/AKT pathway, *Cancer Research Seminar Series*, Evanston Northwestern Healthcare Research Institute, 2004 (invited presentation)

3. **Jilling T.** A Tail-tale of a Receptor, Grinnell College, Grinnell IA, 2004 (invited presentation)

4. **Jilling T.** Platelet-activating Factor in the Life and Death of Epithelial Cells, Lecture Series of the Medical School, University of Pecs, Hungary, 2005 (invited presentation)

5. **Jilling T.** Dietary Fats as Modifiers of Receptor Signaling (You are What you Eat), University of Illinois, Chicago 2006 (invited presentation)

6. **Jilling T.** Polyunsaturated Fatty Acids for Disease prevention, The First Wenzhou Medical College International Pediatric Forum, Wenzhou, Peoples Republic of China, 2006 (invited presentation)

7. **Jilling T.** The Pathomechanism of Necrotizing Enterocolitis, West China University, Chengdu, Peoples Republic of China, 2006 (invited presentation)

8. **Jilling T.** Pathomechanisms Underlying Necrotizing Enterocolitis, University of Arizona, Tucson, AZ 2007 (invited presentation)

9. **Jilling T.** Cellular and Molecular Mechanisms in Necrotizing Enterocolitis, University of Michigan, Ann Arbor, MI 2009 (invited presentation)

10. **Jilling T.** Cellular and Molecular Mechanisms in Necrotizing Enterocolitis, University of Arizona, Tucson, AZ 2009 (invited presentation)

11. **Jilling T.** Phosphatidylinositol 3 Kinase: A Master Switch of Enterocyte Proliferation, Apoptosis and Migration, Frontiers of GI Research Conference, University of Illinois Chicago, 2010 (invited presentation)

12. **Jilling T.** PI3 Kinase and Protein Kinase B (Akt) Play Central Roles in Regulating Intestinal Epithelial Cell Proliferation, Migration and Apoptosis: Implications in Intestinal Pathology, PepCon (Protein and Peptide Conference, Beijing, Peoples Republic of China, 2010 (invited presentation)

13. **Jilling, T.** A Glimpse at the Complex Biological Roles of Fatty Acids: PUFA in Focus. Perinatal Grand Rounds, UAB Division of Neonatology, Birmingham, AL, January 9, 2013

PUBLICATIONS
For current list from PUBMED:
http://www.ncbi.nlm.nih.gov/pubmed/?term=jilling+t%5Bau%5D

Original, peer-reviewed research articles:

1. **Jilling T**, Cunningham S, Barker PE, Green MW, Frizzell RA and Kirk KL. Genetic complementation in cystic fibrosis pancreatic cells by somatic cell fusion. *Am. J. Physiol.* 259(*Cell Physiol.* 28):C1010-C1015, 1990.

2. Sorscher EJ, Kirk KL, Weaver ML, **Jilling T**, Blalock JE, LeBoeuf R.D, Antisenseoligodeoxynucleotide to the cystic fibrosis gene inhibits anion transport in normal culturedsweat duct cells. *Proc. Natl. Acad. Sci. USA* 88:7759-7762, 1991.

3. Hartman J, Huang Z, Rado TA, Peng S, **Jilling T**, Muccio DD and Sorscher EJ. Recombinant synthesis, purification, and nucleotide binding characteristics of the first nucleotide binding domain of the cystic fibrosis gene product. *J. Biol. Chem.* 267(10):64556458, 1992.

4. Jackson S, Moldoveanu Z, Kirk KA, Julian BA, Patterson TF, Mullins AL, **Jilling T**, Mestecky J and Galla JH. IgA-containing immune complexes after challenge with food antigens in patients with IgA nephropathy. *Clin. Exp. Immunol.* 89:315-320, 1992.

5. Bradbury NA, **Jilling T**, Kirk KL and Bridges, RJ. Regulated endocytosis in a chloride secretory epithelial cell line. *Am. J. Physiol.* 262(*Cell Physiol.* 31): C752-C759, 1992.

6. Baker RR, Czopf L, **Jilling T**, Freeman BA, Kirk KL and Matalon S. Quantitation of alveolar distribution of liposome-entrapped antioxidant enzymes. *Am. J. Physiol.* 263(*Lung Cell Molec. Physiol.* 7):L585-L594, 1992.

7. Bradbury NA, **Jilling T**, Berta G, Sorscher EJ, Bridges RJ and Kirk KL. Regulation of plasma membrane recycling by CFTR. *Science* 256:530-532, 1992.

8. Peng S, Sommerfelt M, Logan J, Huang Z, **Jilling T**, Kirk KL, Hunter E and Sorscher E. One step affinity purification of recombinant protein using the baculovirus/insect cell expression system. *J. Prot. Expr. Purif.* 4:95-100, 1993.

9. Yue G, Hu P, Oh Y, **Jilling T**, Shoemaker RL, Benos DJ, Cragoe EJ Jr and Matalon S Cultured-induced alterations in ATII cell Na^{2+} conductance. *Am. J. Physiol.* 265(*Cell Physiol.* 34):C630-C640, 1993.

10. Marczin N, Papapetropoulos A, **Jilling T** and Catravas JD Prevention of nitric oxide synthase induction in vascular smooth muscle cells by microtubule depolymerizing agents.*Brit. J. Pharmacol.* 109:603-605, 1993.

11. Weber E, Berta G, St. John P, Gopalokrishnan U, Weaver-Green M, **Jilling T**, Sorscher EJ, Elton TE, Abrahamson DR and Kirk KL. Expression and polarized targeting of a rab 3 isoform in epithelial cells. *J. Cell Biol.* 125(3):583-594, 1994.

12. Hasty, P, O'Neal WK, Liu K, Morris AP, Bebok Z, Shumyatsky GB, **Jilling T**, Sorscher E, Bradley A and Beaudet AL. Severe phenotype in mice with termination mutation in exon 2 of cystic fibrosis gene. *Som. Cell Molec. Genet.* 21(3):177-187, 1995.

13. Pataki G, Czopf L, **Jilling T**, Marczin N, Catravas J and Matalon S. Regulation of fluid phase endocytosis in alveolar macrophages. *Am. J. Physiol.* 269 *(Lung Cell. Mol. Physiol. 13)*: L520-L526, 1995.

14. Shrikant P, Weber E, **Jilling T** and Benveniste EN. ICAM-1 gene expression by glial cells: Differential mechanisms of inhibition by interleukin-10 and interleukein-6. *J. Immunol.*, 155:1489 -1501, 1995.

15. **Jilling T.** and Kirk KL. Cyclic AMP and chloride-dependent regulation of the apical constitutive secretory pathway in colonic epithelial cells. *J. Biol. Chem.*, 271(8): 4381 -4387, 1996.

16. Weber E, **Jilling T** and Kirk KL. Distinct functional properties of rabs 3A and 3B in PC12 neuroendocrine cells. *J. Biol. Chem.*, 271(12): 6963 -697, 1996.

17. Howard M, **Jilling T**, Duvall M and Frizzell RA. cAMP-regulated trafficking of epitope-tagged CFTR, *Kidney International*, 49 (6): 1642 -1648, 1996.

18. Marczin N, **Jilling T**, Papapetropoulos A, Carolyn G and Catravas JD. Cytoskeleton-dependent activation of the inducible nitric oxide synthase in cultured aortic smooth muscle cells. *Brit. J. Pharmacol.* 118: 1085 -1094, 1996.

19. Bebok Z, Venglarik CJ, Panczel Z, **Jilling T**, Kirk KL, and Sorscher EJ. Activation of DeltaF508 CFTR in an epithelial monolayer. *Am J Physiol* 275: C599-607, 1998.

20. **Jilling T**., Haddad IY, Cheng SH and Matalon S. Nitric oxide inhibits heterologous CFTR expression. *Am J Physiol* 277(1 Pt 1):L89-96.

21. Braunstein G M, Roman RM, Clancy JP, Kudlow BA, Taylor AL, Shylonsky VG, Jovov B, Peter K, **Jilling T**, Ismailov, II, Benos DJ, Schwiebert LM, Fitz JG,Schwiebert EM. 2001 Cystic fibrosis transmembrane conductance regulator facilitates ATPrelease by stimulating a separate ATP release channel for autocrine control of cell volume regulation. *J Biol Chem* 276:6621-30.

22. Caplan MS, Russell T, Xiao Y, Amer M, Kaup S, **Jilling T.** 2001 Effect of polyunsaturatedfatty acid (pufa) supplementation on intestinal inflammation and necrotizing enterocolitis(nec) in a neonatal rat model. *Pediatr Res* 49:647-52.

23. Claud EC, Li D, Xiao Y, Caplan MS, **Jilling T.** 2002 Platelet-activating factor regulates chloride transport in colonic epithelial cell monolayers. *Pediatr Res* 52:155-162.

24. Thaete LG, Neerhof MG, **Jilling T**, and Caplan MS. Infusion of exogenous platelet-activating factor produces intrauterine growth restriction in the rat. *J Soc Gynecol Investig* 10: 145-150, 2003.

25. Venema RC, Venema VJ, Ju H, Harris MB, Snead C, **Jilling T**, Dimitropoulou C, Maragoudakis ME, and Catravas JD. Novel complexes of guanylate cyclase with heat shock protein 90 and nitric oxide synthase. *Am J Physiol Heart Circ Physiol* 285: H669-678, 2003.

26. Derrick M, Luo NL, Bregman JC, **Jilling T**, Ji X, Fisher K, Gladson CL, Beardsley DJ, Murdoch G, Back SA, and Tan S. Preterm fetal hypoxia-ischemia causes hypertonia and motor deficits in the neonatal rabbit: a model for human cerebral palsy? *J Neurosci* 24: 2434, 2004.

27. **Jilling T**, Lu J, Jackson M, and Caplan MS. Intestinal epithelial apoptosis initiates gross bowel necrosis in an experimental rat model of neonatal necrotizing enterocolitis. *Pediatr Res* 55: 622-629, 2004.

28. Lu J, Caplan MS, Saraf AP, Li D, Adler L, Liu X, and **Jilling T**. Platelet-activating factor-induced apoptosis is blocked by Bcl-2 in rat intestinal epithelial cells. *Am J Physiol Gastrointest Liver Physiol* 286: G340-350, 2004.

29. Barrett JM, Mangold KA, **Jilling T**, Kaul KL. Bi-directional interactions of prostate cancer cells and bone marrow endothelial cells in three-dimensional culture. *Prostate*;64:75-82. 2005

30. Tan S, Drobyshevsky A, **Jilling T**, Ji X, Ullman LM, Englof I, and Derrick M. Model of cerebral palsy in the perinatal rabbit. *J Child Neurol* 20: 972-979, 2005.
31. Barrett JM, Rovedo MA, Tajuddin AM, **Jilling T**, Macoska JA, Macdonald J, Mangold KA, and Kaul KL. Prostate cancer cells regulate growth and differentiation of bone marrow endothelial cells through TGFbeta and its receptor, TGFbetaRII. *Prostate* 66: 632-650, 2006.

32. **Jilling T,** Simon D, Lu J, Meng FJ, Li D, Schy R, Thomson RB, Soliman A, Arditi M, Caplan MS. The roles of bacteria and TLR4 in rat and murine models of necrotizing enterocolitis. *J Immunol* 177:3273-3282. 2006

33. Factor P, Mutlu GM, Chen L, Mohameed J, Akhmedov AT, Meng FJ, **Jilling T**, Lewis ER, Johnson MD, Xu A, Kass D, Martino JM, Bellmeyer A, Albazi JS, Emala C, Lee HT, Dobbs LG, and Matalon S. Adenosine regulation of alveolar fluid clearance. *Proc Natl Acad Sci U S* A 104: 4083-4088, 2007.

34. De Plaen IG, Liu SX, Tian R, Neequaye I, May MJ, Han XB, Hsueh W, **Jilling T**, Lu J, and Caplan MS. Inhibition of nuclear factor-kappaB ameliorates bowel injury and prolongs survival in a neonatal rat model of necrotizing enterocolitis. *Pediatric Research* 61: 716-721, 2007.

35. Lu J, **Jilling T**, Li D, and Caplan MS. Polyunsaturated Fatty Acid Supplementation Alters Proinflammatory Gene Expression and Reduces the Incidence of Necrotizing Enterocolitis in a Neonatal Rat Model. *Pediatric Research.* 61(4):427-432, 2007

36. Thaete LG, **Jilling T**, Synowiec S, Khan S, and Neerhof MG. Expression of endothelin 1 and its receptors in the hypoxic pregnant rat. *Biol Reprod* 77: 526-532, 2007.

37. Claud EC, Lu J, Wang XQ, Abe M, Petrof EO, Sun J, Nelson DJ, Marks J, and **Jilling T**. Platelet-activating factor-induced chloride channel activation is associated with intracellular

acidosis and apoptosis of intestinal epithelial cells. *Am J Physiol Gastrointest Liver Physiol* 294:G1191-1200, 2008.

38. Lu J, Caplan MS, Li D, and **Jilling T**. Polyunsaturated fatty acids block platelet-activating factor-induced phosphatidylinositol 3 kinase/Akt-mediated apoptosis in intestinal epithelial cells. *Am J Physiol Gastrointest Liver Physiol* 294: G1181-1190, 2008.

39. Neerhof MG, Jilling T, Synowiec S, Khan S, and Thaete LG. Altered endothelin receptor binding in response to nitric oxide synthase inhibition in the pregnant rat. *Reproductive sciences* 15: 366-373, 2008

40. Lu J, Pierce M, Franklin A, **Jilling T**, Stafforini DM, and Caplan M. Dual roles of endogenous platelet-activating factor acetylhydrolase in a murine model of necrotizing enterocolitis. *Pediatric research* 68: 225-230, 2010

41. Soliman A, Michelsen KS, Karahashi H, Lu J, Meng FJ, Qu X, Crother TR, Rabizadeh S, Chen S, Caplan MS, Arditi M, and Jilling T. Platelet-activating factor induces TLR4 expression in intestinal epithelial cells: implication for the pathogenesis of necrotizing enterocolitis. PLoS One 5: e15044.
42. Gupta J, Robbins J, Jilling T, Seth P, TGFß -dependent Induction of Interleukin-11 and Interleukin-8 involves SMAD and p38 MAPK Pathways in Breast Tumor Models with Varied Bone Metastases Potential, Cancer Biology & Therapy 11:3, 1-6, 2011
43. Qu XW, Jilling T, Neerhof MG, Luo K, Hirsch E, Thaete LG. Unilateral uterine ischemia/reperfusion-induced bilateral fetal loss and fetal growth restriction in a murine model require intact complement component 5. J Reprod Immunol 2012.
44. Thaete LG, Qu XW, Jilling T, Crawford SE, Fitchev P, Hirsch E, Khan S, and Neerhof MG. Impact of toll-like receptor 4 deficiency on the response to uterine ischemia/reperfusion in mice. Reproduction 145: 517-526, 2013.
45. Agrawal V, Smart K, Jilling T, and Hirsch E. Surfactant Protein (SP)-A Suppresses Preterm Delivery and Inflammation via TLR2. PLoS One 8: e63990, 2013.

Reviews and Chapters:

1. **Jilling T** and Kirk KL. Fluorescence digital imaging microscopy in epithelial biology. IN:*Methods in Membrane and Transporter Research, Molecular Biology Intelligence Unit*, R.G. Landes Co., pp. 177-214, 1994. (book chapter)

2. **Jilling T** and Kirk KL The biogenesis, traffic and function of the Cystic Fibrosis Transmembrane Conductance Regulator; *International Review of Cytology*, 172: 193 -241,1997 (invited review)

3. Caplan, MS and **Jilling T.** 2001 Neonatal necrotizing enterocolitis: Possible role of probiotic supplementation. *J Pediatr Gastroenterol Nutr* 30(Suppl 2):S18-22. (invited review)

4. Caplan MS, **Jilling T.** New concepts in necrotizing enterocolitis. *Curr Opin Pediatr* 13:111

5. Caplan MS, Amer M, and **Jilling T.** The role of human milk in necrotizing enterocolitis. *Adv Exp Med Biol* 503: 83-90, 2002. (invited review)

6. **Jilling T.** The Biology of Cystic Fibrosis. In: *Disease Markers in Exhaled Breath: Basic Mechanisms and Clinical Applications*, edited by Marczin N and Yacoub MH. Amsterdam: IOS Press, 2002. (book chapter)

7. Caplan MS, Amer M, **Jilling T** 2002 The role of human milk in necrotizing enterocolitis. *Adv Exp Med Biol* 503:83-90. (invited review)

8. Caplan MS, Simon D, **Jilling T.** The role of PAF, TLR, and the inflammatory response in neonatal necrotizing enterocolitis. *Semin Pediatr Surg* 2005;14:145-51. (invited review)

9. Caplan MS, **Jilling T.** Neonatal necrotizing enterocolitis: clinical observations and pathophysiology. In: Thureen PJ, Hay WW, eds. *Neonatal nutrition and metabolism*. 2nd ed. Cambridge, UK: New York : Cambridge University Press, 2006:482-491. (book chapter)

10. Frost BL, **Jilling T**, and Caplan MS. The importance of pro-inflammatory signaling in neonatal necrotizing enterocolitis. *Semin Perinatol* 32: 100-106, 2008.

11. **Jilling T**, Lu J, and Caplan MS. Intestinal Epithelial Cell Apoptosis, Immunoregulatory Molecules and Necrotizing Enterocolitis. In: Life and Death of the Intestinal Epithelial Cell, Journal of Clinical and Cellular Immunology, S3:007