

CURRICULUM VITAE

Wei Hsueh, M.D., Ph.D.

EDUCATION

1968: National Taiwan University, School of Medicine, M.D., (Pre-med: 1961 to 1963)

1972: Indiana University, Dept. of Anatomy and Physiology, Bloomington, IN. Ph.D.

POST-GRADUATE TRAINING

1968-1972: Indiana University, Department of Anatomy and Physiology Bloomington, Indiana,
Research Assistant

1972-1973: Resident, Department of Pathology, Indiana University, School of Medicine,
Indianapolis, IN

1974-1975: Resident and Chief Resident, Department of Pathology, Washington University, St.
Louis, MO

1975-1976: Resident, Dept. of Pathology, Division of Surgical Pathology, Washington
University, St. Louis, MO

1976-1978: Instructor, Dept. of Pathology, and Research Fellow, Dept. of Pharmacology,
Washington University, St. Louis, MO

POSITIONS

Academic appointment:

11978-1983: Assistant Professor, Dept. of Pathology, Northwestern University, Chicago, IL.

1983 - 1990: Associate Professor with tenure, Department of Pathology, Northwestern
University School of Medicine, Chicago, IL

1990 - 2006: Professor with Tenure, Department of Pathology, Northwestern University,
Chicago, IL

2006: Professor Emeritus, Northwestern University, Chicago, IL.

Hospital appointment:

1978 - 2006: Staff Pathologist, Children's Memorial Hospital, Northwestern University,
Chicago, IL.

LICENSURE

Illinois

MEMBERSHIP

International Academy of Pathology (US & Canadian Academy of Pathology)
Chicago Pathological Society
American Association of Investigative Pathologists
Society for Pediatric Pathology
American Association of Immunologists

BOARD CERTIFICATION

American Board of Pathology, 1977

INVITED ADDRESSES

National and International Meetings::

- Invited to participate as a member of the panel in Symposium "Immunopathology of the Lung" in FASEB Meeting, April 1979, Dallas, TX. Title of speech: Prostaglandin synthesis in pulmonary macrophages.
- Invited to Gordon Research Conference. Pulmonary Biology: Lung Injury, July 12-16, 1982. "Arachidonic acid metabolites in alveolar macrophages".
- Invited to participate as a panel member in Symposium "Pulmonary macrophages: role in host defenses and in lung injury and repair: secretory products" in FASEB, April 25, 1985. Anaheim, CA.
- Invited to International Symposium on platelet activating factor, Oct. 15-18, 1985. Palmetto Dunes Resort, Hilton Head Island, South Carolina. "Platelet activating factor induced ischemic bowel necrosis: the effect of PAF antagonists."
- Invited to FASEB minisymposium: "Inflammatory Mediators". March 21, 1989. New Orleans. Title of presentation: "Role of TNF and PAF in tissue injury".
- Invited to Second International Symposium on Developmental Gastroenterology and Nutrition, Title of speech: "Neonatal Necrotizing Enterocolitis: Current Concepts and Controversies". Sept. 25-27, 1989. Wexner Institute of Pediatric Research, Children's Hospital, Columbus, Ohio.
- Invited to American Gastroenterology Association Meeting, PAF Symposium. Topic of presentation : "PAF and necrotizing enterocolitis". May 14 -16, 1990. San Antonio, TX.
- Invited to Necrotizing Enterocolitis Workshop sponsored by NIH (National Institute of Child Health and Human Development), Bethesda, MD., July 19, 1990. Topic of presentation: "PAF, cytokines, and necrotizing enterocolitis".
- Organizing FASEB minisymposium "PAF" (CoChairman), April 1-5, 1990. Washington, D.C.
- Invited to FASEB 1991 Summer Research Conferences: Cytokines and Lipid Mediators as Regulators of Cell Function. August 11-16, 1991, Copper Mountain, Colorado. Title of presentation: "Interaction of tumor necrosis factor and PAF in tissue injury".
- Invited to the symposium "Necrotizing Enterocolitis: Basic Science Approaches to Gut Maturation and Pathogenesis", sponsored by National Institute of Child Health and

- Human Development, NIH, Bethesda, MD., Oct. 19-22, 1992.
- C Organizing Experimental Biology (FASEB) minisymposium "Cytokines and pulmonary inflammation" (Cochairman), March 31, 1993 (March 28-April 1), New Orleans.
 - C Invited to the 5th Southeast European Symposium of Pediatric Surgery, Graz, Austria, July 8 - 10, 1993. Title of lecture: "PAF, TNF, hypoxia and necrotizing enterocolitis".
 - C Invited to the 4th International Conference on Eicosanoids & Other Bioactive Lipids in Cancer, Inflammation & Radiation Injury, Oct. 4-7, 1995, Hong Kong. Title of lecture: "Injurious and protective mechanisms in the gut: Interaction of PAF, phospholipase A2, eicosanoids, and nitric oxide synthase".
 - C Invited to Asia-Pacific International Academy of Pathology Congress, August 22-26, 2005, Beijing, China. Title of seminar: "Pathogenesis of experimental necrotizing enterocolitis".

Invited Lectures and Seminars:

- * Lecture by invitation to Indiana University, Department of Hematology and Oncology, 1979. "Prostaglandin biosynthesis in alveolar macrophages".
- * Invited to Rush-Presbyterian-St. Luke's Medical Center, Department of Medicine, September 20, 1982. "Arachidonic acid metabolites from alveolar macrophages".
- C Invited to St. Louis University, Department of Pathology, June 1983. "Arachidonic acid metabolites in macrophages."
- C Invited to Dalhousie University, Department of Pathology. "Arachidonic acid metabolism in macrophages", August 1983
- C Invited to lecture in "Prostaglandin Symposium" sponsored by National Cheng Kung University, Taiwan, Dec. 3-4, 1984
- C Invited to Sandoz Research Institutes, Sandoz, Inc. East Hanover, N. J. May 3, 1985. "Platelet activating factor induced bowel necrosis: Effects of platelet activating factor antagonists."
- C Invited to Department of Pathology, New York Medical College, Valhalla, N.Y. Oct. 9, 1985. "Secretion of prostaglandins and leukotrienes by alveolar macrophages".
- C Invited to Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan, Republic of China. Nov. 6, 1987. "Platelet activating factor."
- C Invited to Chang Gung Medical College, Tao-Yuan, Taiwan: "PAF Mediated Tissue Injury." May 19, 1989.
- C Invited to University of Chicago, Division of Immunopathology. Title of seminar: "Role of TNF, LPS, and TNF on tissue necrosis." March 28, 1989
- C Invited to Hoffman La-Roche, NJ., June 22, 1989. "The roles of TNF & PAF in tissue injury".
- C Invited to Merck Sharp and Dohme, NJ.: "Tumor Necrosis Factor, PAF and Ischemic Bowel Necrosis." July 11, 1989.
- C Invited to University of Illinois, College of Medicine at Chicago, Dept. of Pediatrics. Sept. 17, 1990. Title of lecture: "Lipid mediators, cytokines and necrotizing enterocolitis".
- C Invited to Abbott Labs, North Chicago, Oct. 29, 1990. Title of seminar: "PAF-induced tissue injury".
- C Invited to Dept. of Pathology, University of Michigan, Ann Arbor, MI., Oct. 23, 1990. Title of seminar: "Interaction of PAF and tumor necrosis factor in tissue injury".
- C Invited to Dept. of Pediatrics, Children's Hospital, Cincinnati, Ohio. Feb. 4, 1992. Title of presentation: "The roles of cytokines and lipid mediators in the pathogenesis of necrotizing enterocolitis."
- C Invited to Dept. of Physiology, Louisiana State University Medical Center, Shreveport, LA. July 17, 1992. "PAF and TNF in bowel injury".

- C Invited to 4th International Conference on Eicosanoids and Other Bioactive Lipids in Cancer, Inflammation and Radiation Injury. Oct. 4-7, 1995. Hong Kong. Title of presentation: "Injurious and protective mechanisms in the gut: Interaction of PAF, phospholipase A2, eicosanoids, and nitric oxide synthase".
- C Invited to Dept. of Medicine, Gastroenterology, University of Illinois, School of Medicine, Chicago, IL. Dec. 12, 1997. "Inflammatory mediators and acute intestinal injury".
- C Invited to Yale University School of Medicine Pathology Grand Round, Dec. 3, 1998. "Pathogenetic lessons and molecular mechanisms in experimental models of necrotizing enterocolitis".
- C Invited to Charles Kuhn Research Symposium, Dec. 11, 1998, Brown University. "Pathogenesis of intestinal necrosis: balance of injurious and protective mechanisms in the gut".
- C Invited to Dept. of Cell Biology "Distinguished Lecture Series", UMDNJ (University of Medicine & Dentistry in New Jersey), Jan. 25, 1999. "Inflammatory mediators, NF-kappa B, and acute intestinal injury".
- C Invited lecture. Beijing University Medical School, Dept. of Pathology. Sept. 1, 2004.

GRANT REVIEWS AND STUDY SECTIONS

Member (or special reviewer) of NIH Study Sections

- C *Ad hoc* member of study section General Medicine A2, NIH, Feb. 1988.
- C Special Reviewer (telephone conference) for Oral Biology/Medicine Study Section, NIH, July, 1990.
- C *Ad Hoc* member of General Medicine A2 Study Section, NIH, Feb. 1992.
- C Member, reverse site visit (Perinatal Emphasis Research Center), National Institute of Child Health and Human Development, NIH, Sept. 18, 1992.
- C Member of General Medicine A2 Study Section, NIH, 1992-1996.
- C Special Reviewer, NIH Special Emphasis Panel: RFA AI-99-011 "Innovation Research in Human Mucosal Immunity", March 20-21, 2000.

Reviewer for other foundations

- C *Ad hoc* reviewer for National Science Foundation, Cellular Physiology Program, May, 1988
- C Special reviewer for March of Dimes Birth Defects Foundation grants, 1990
- C Special reviewer for Chicago Lung Association grants, 1990
- C Special reviewer for Scleroderma Federation grants, 1990.
- C External referee for B. C. Health Research Foundation, Burnaby, British Columbia, Canada, Sept., 1991

AWARDS AND GRANT SUPPORT

As Principal Investigator:

1. American Lung Association Grant: Prostaglandin biosynthesis & function in alveolar macrophages. 1978-1980.
2. Northwestern University Committee Award. 1979.
3. NIH R23 AI 16147: Prostaglandin biosynthesis in lung macrophages. 1979-1982*. (* The Young Investigator Award was discontinued in Sept. 1981 due to activation of RO1 AI17419 in 1981).
4. NIH RO1 AI17419: Arachidonic acid metabolism and macrophage function. 1981-1984.
5. CMH Research Foundation Grant: Lymphocyte factors modulate prostaglandin and leukotriene biosynthesis by macrophages. 1983-1985.
6. NIH RO1 AM34574: Pathogenesis of experimental bowel necrosis. 1984-1987.
7. NIH 2RO1 DK34574: Pathogenesis of experimental bowel necrosis. 1987-1992.
8. NIH 2RO1 DK 34574: Pathogenesis of experimental bowel necrosis. 1992- 1997.
9. NIH RO1 HD 31840: Molecular mechanism of experimental intestinal injury. 1994-1999.
10. NIH 2RO1 DK 34574: Pathogenesis of experimental bowel necrosis. 1997 - 2002.

As Co-investigator:

1. CMH Research Foundation. Experimental necrotizing enterocolitis. 1984-86. (P.I.: F.

- G. Crussi)
2. VA Merit Review. Hyperoxic lung damage. 1987-90. (Role of bioactive mediators) (P.I.: Lewis Smith, Dept. of Medicine, Northwestern University Medical School)
 3. NIH AI 11403. Asthma & allergic dis. center grant. Immunologic airway disease: Clinical and basic studies. Project #6: Bioactive mediators. (P.I. R. Patterson; Project P.I. Lewis Smith, Dept. of Medicine, Northwestern University Medical School). 1988-93.

PUBLICATIONS

(I). JOURNAL ARTICLES

1. **Hsueh, W.** and Rostorfer, H.H.: Chemically induced renal hypertrophy in the rat. *Lab. Invest.* 29:547-555, 1973.
2. **Hsueh, W.** and Rostorfer, H.H.: Effects of dietary sodium on renin content during renal hypertrophy in uninephrectomized rats. *Proc. Soc. Exp. Biol. Med.* 147:798-802, 1974.
3. **Hsueh, W.**, Isakson, P. and Needleman, P.: Hormone selective lipase activation in the isolated rabbit heart. *Prostaglandins* 13:1073-1091, 1977.
4. **Hsueh, W.** and Needleman, P.: Sites of lipase activation and prostaglandin synthesis in isolated perfused rabbit heart and hydronephrotic kidney. *Prostaglandins* 16:661-681, 1978.
5. **Hsueh, W.**, and Kuhn, C. III: Prostaglandin secretion in rabbit alveolar macrophages and its relationship to phagocytosis. *Chest* 75:249-251, 1979.
6. **Hsueh, W.** and Needleman, P.: Cardiac and renal lipases and prostaglandin biosynthesis. *Lipids* 14:236-240, 1979.
7. Sivakoff, M., Pure, E., **Hsueh, W.** and Needleman, P. Prostaglandins and the Heart. *Fed. Proc.* 38:78-82, 1979.
8. **Hsueh, W.**, Kuhn, C. III and Needleman, P.: Relationship of prostaglandin secretions in alveolar macrophages to phagocytosis and lysosomal enzyme release. *Biochem. J.* 184:345-354, 1979.
9. **Hsueh, W.**: Prostaglandin synthesis in pulmonary macrophages. *Am. J. Pathol.* 97:137-148, 1979.
10. **Hsueh, W.**, Gonzalez-Crussi, F. and Hanneman, E.: Prostaglandin synthesis in different phases of phagocytosis in lung macrophages. *Nature* 283:80-82, 1980.
11. Gonzalez-Crussi, F., **Hsueh, W.** and Wiederhold, M.: Prostaglandin production by histiocytosis-X cells. *Am. J. Clin. Pathol.* 75:243-253, 1981.
12. Ugarte, N., Gonzalez-Crussi, F. and **Hsueh, W.**: Wilms tumor-its morphology in patients under one year of age. *Cancer* 48:346-353, 1981.
13. **Hsueh, W.**, Desai, U., Gonzalez-Crussi, F., Lamb, R. and Chu, A.: Two phospholipase pools for prostaglandin synthesis in macrophages. *Nature* 290:710-713, 1981.
14. Chappee, S.G., Esterly, N.B., Furey, N.L., Hurley, J.K. and **Hsueh, W.**: Subepidermal bullous disease and glomerulonephritis in a child. *J. Am. Acad. Dermatol.* 5:280-289, 1981.
15. Gonzalez-Crussi, F., **Hsueh, W.** and Ugarte, N.: Rhabdomyogenesis in renal neoplasia of children. *Am. J. Surg. Pathol.* 5:525-532, 1981.
16. Gonzalez-Crussi, F., Goldschmidt, R.A., **Hsueh, W.** and Trujillo, Y.P.: Infantile sarcoma with intracytoplasmic filamentous inclusions: Distinctive tumor of possible histiocytic origin. *Cancer* 49:2365-2375, 1982.
17. **Hsueh, W.**, Lamb, R. and Gonzalez-Crussi, F.: Decreased phospholipase A₂ activity and prostaglandin biosynthesis in BCG-activated alveolar macrophages. *Biochim. Biophys. Acta* 710:406-414, 1982.
18. **Hsueh, W.** and Sun, F.F.: Leukotriene B₄ biosynthesis by alveolar macrophages. *Biochem. Biophys. Res. Comm.* 106:1085-1091, 1982.
19. Cobb, M.A., **Hsueh, W.**, Pachman, L.M. and Barnes, W.T.: Prostaglandin biosynthesis

- by a human macrophage-like cell line U937. *J. Reticulo-endothel. Soc.* 33:197-206, 1983.
20. Gonzalez-Crussi, F. and **Hsueh, W.**: Experimental model of ischemic bowel necrosis: The role of platelet-activating factor and endotoxin. *Am. J. Pathol.* 112:127-135, 1983.
 21. **Hsueh, W.**, Jordan, R.L., Harrison, H.H. and Cobb, M.A.: Serum and plasma stimulate prostaglandin production by alveolar macrophages. *Prostaglandins* 25:793-808, 1983.
 22. **Hsueh, W.**, Arroyave, C. and Jordan, R.L.: Identification of C3b as the major serum protein that stimulates PG synthesis by macrophages. *Prostaglandins* 28:889-904, 1984.
 23. **Hsueh, W.**, Jordan, R.L. and Gonzalez-Crussi, F.: Rabbit lymphocyte factors modulate prostaglandin biosynthesis in alveolar macrophages. *Immunology.* 54:155-161, 1985
 24. **Hsueh W.**, Sun, F.F. and Henderson, S. The biosynthesis of leukotriene B₄, the predominant lipoxygenase product in rabbit alveolar macrophages, is enhanced during immune activation. *Biochem. Biophys. Acta* 835:92-97, 1985
 25. Wiederhold, M., **Hsueh, W.**, and Yokoyama, M. M. Selectivity of fatty acid release from macrophages following various stimuli. *Kurume Med. J.* 31:5-14, 1985.
 26. Bernstein, R.A. and **Hsueh, W.**: Ventriculocholecystic shunt. A mortality report. *Surg. Neurol.* 23:31-37, 1985
 27. **Hsueh, W.**, Gonzalez-Crussi, F., Arroyave, J. L., Anderson, R. C., Lee, M. L. and Houlihan, W. L.: Platelet activating factor-induced ischemic bowel necrosis: The effect of PAF antagonists. *Europ. J. Pharmacol.* 123:79-83, 1986.
 28. **Hsueh, W.**, Gonzalez-Crussi, F. and Arroyave, J. L. Platelet activating factor-induced ischemic bowel necrosis: An investigation of secondary mediators in its pathogenesis. *Am. J. Pathol.* 122:231-239, 1986.
 29. **Hsueh, W.**, Gonzalez-Crussi, F. and Arroyave, J. L. Release of leukotriene C₄ by isolated, perfused rat small intestine in response to platelet activating factor. *J. Clin. Invest.* 78:108-114, 1986.
 30. Gonzalez-Crussi, F., Mangkornkanok, M., and **Hsueh, W.**: Large cell lymphomas: diagnostic difficulties and case study. *Am J. Surg. Pathol.* 11:59-65, 1987.
 31. Moel, D. I., Safirstein, R. L., McEvoy, R. C., and **Hsueh, W.** The Effect of aspirin on experimental diabetic nephropathy. *J. Lab. Clin. Med.* 110:300-307, 1987.
 32. **Hsueh, W.**, Gonzalez-Crussi, F., and Henderson, S.: LTB₄ production and lysosomal enzyme release by rat alveolar macrophages. Effects of phagocytosis, receptor binding and ionophore stimulation. *Exp. Lung Res.* 13:385-399, 1987.
 33. Hsueh, C., **Hsueh, W.***, and Gonzalez-Crussi, F.: An unusual case of bilateral renal dysplasia with features of nephroblastomatosis. *Pediatr. Pathol.* 7:437-446, 1987. (*corresponding author).
 34. **Hsueh, W.**, Gonzalez-Crussi, F. and Arroyave, J. L.: Platelet activating factor is an endogenous mediator in endotoxin induced bowel necrosis. *FASEB J.* 1:403-405, 1987.
 35. Smith, L. J., Shamsuddin, M., Anderson, J. and **Hsueh, W.**: Hyperoxic lung damage in mice: Appearance and bioconversion of peptide leukotrienes. *J. Appl. Physiol.* 64:944-951, 1988.
 36. **Hsueh, W.**, and Gonzalez-Crussi, F.: Ischemic bowel necrosis induced by platelet-activating factor: An experimental model. In "Methods and Achievement in Experimental Pathology", Vol. 13. pp. 208-239. Ed. by G. Jasmin (Karger, Basel). 1988.
 37. Llaugas-Magana, E., **Hsueh, W.***, Arroyave, C.M., Arroyave, J.L., Torre-Amione, G. and

- Gonzalez-Crussi, F.: Cobra venom factor, an activator of complement system, enhances the bowel necrosis induced by platelet activating factor. *Immunopharmacol.* 15:31-38, 1988. (*corresponding author).
38. Gonzalez-Crussi, F., and **Hsueh, W.**: Bilateral adrenal ganglioneuroblastoma with melanosis: Clinical and pathologic observations. *Cancer* 61:1159-1166, 1988.
 39. Sun, X. M., and **Hsueh, W.**: Bowel necrosis induced by tumor necrosis factor in rats is mediated by platelet-activating factor. *J. Clin. Invest.* 81:1328-1331, 1988.
 40. **Hsueh, W.**, Gonzalez-Crussi, F., and Arroyave, J.L. Sequential release of leukotrienes and norepinephrine in rat bowel following platelet activating factor: A mechanistic study of PAF-induced bowel necrosis. *Gastroenterology* 94:1412 -1418, 1988.
 41. Cueva, J. P. and **Hsueh, W.**. Role of oxygen derived free radicals in platelet-activating factor induced bowel necrosis. *Gut* 29:1207-1212, 1988.
 42. Spaethe, S. M., **Hsueh, W.** and Needleman, P.: Pharmacological manipulation of the inflammation in rabbit hydronephrosis: Effect of ethoxyquin, a combined cyclooxygenase/lipoxygenase inhibitor; RS-5186, a thromboxane synthase inhibitor; and -659,989, a PAF antagonist. *J. Pharmacol. Exp. Therap.* 248:1308-1316, 1989.
 43. Smith, L. J., Anderson, J. Shamsuddin, M., and **Hsueh, W.**: Effect of fasting on hyperoxic lung injury in mice: The role of glutathione. *Am. Rev. Resp. Dis.* 141:141-149, 1990.
 44. Smith, F. L., Ritchie, E. L., Maizels, M., Zaontz, M. R., **Hsueh, W.**, Kaplan, W. E. and Firlit, C. F. Surgery for duplex kidneys with ectopic ureters: Ipsilateral ureteroureterostomy versus polar nephrectomy. *J. Urol.* 142:532-534, 1989.
 45. Sun, X.-M., **Hsueh, W.***, and Torre-Amione, G.: Effects of in vivo priming on endotoxin-induced hypotension and tissue injury: The role of PAF and tumor necrosis factor. *Am. J. Pathol.* 136: 949-956, 1990 (*corresponding author).
 46. Caplan, M. S., Sun, X-m., **Hsueh, W.***, and Hageman, J. R.: Role of platelet activating factor and tumor necrosis factor-alpha in neonatal necrotizing enterocolitis. *J. Pediatr.* 116:960-964, 1990. (*corresponding author)
 47. **Hsueh, W.**, Sun, X.-M., Rioja, L.N., and Gonzalez-Crussi, F.: The role of the complement system in tumor necrosis factor and endotoxin-induced shock and tissue injury. *Immunology.* 70: 309-314, 1990.
 48. Caplan, M.S., Sun, X.-M., and **Hsueh, W.**: Hypoxia causes ischemic bowel necrosis in rats: The role of platelet-activating factor (paf-acether). *Gastroenterology* 99:979-986, 1990.
 49. Caplan, M.S., **Hsueh, W.***, Kelly, A. and Donovan, M. Serum PAF acetylhydrolase increases during neonatal maturation. *Prostaglandins* 39:705-714, 1990. (*corresponding author).
 50. Caplan, M.S., **Hsueh, W.**, Sun, X.M., Gidding, S.S. and Hageman, J. R. Circulating plasma platelet activating factor (PAF) in persistent pulmonary hypertension of the newborn. *Am. Rev. Resp. Dis.* 142:1258-1262, 1990.
 51. Hursh, D. A., **Hsueh, W.*** and Kartha, R. K. PAF metabolism in resident and activated alveolar macrophages: Role of protein kinase C. *Cell Immunol.* 130: 429-436, 1990. (*corresponding author).
 52. Caplan, M.S. and **Hsueh, W.** Necrotizing enterocolitis: Role of platelet activating factor, endotoxin, and tumor necrosis factor. *J. Pediatr.* 117 (suppl) S47-51, 1990.
 53. Zhang, C. and **Hsueh, W.**. PAF-induced bowel necrosis. Effects of vasodilators.

- Digest. Dis. Sci. 36:634-640. 1991.
54. Sun, X.M. and **Hsueh, W.**. PAF produces shock, in vivo complement activation and tissue injury in mice. *J. Immunol.* 147:509-514. 1991.
 55. Zhang, C. **Hsueh, W.***, and Caplan, M. S. Platelet activating factor- induced intestinal necrosis in the rat: Role of endogenous platelet-activating factor and effect of saline infusion. *Crit. Care Med.* 19:1067-1072. 1991. (*corresponding author).
 56. Caplan, M., Sun, X.-M. and **Hsueh, W.**: Hypoxia, PAF, and necrotizing enterocolitis. *Lipids.*26:1340-1343, 1991.
 57. Musemeche,C., Caplan, M., **Hsueh, W.**, Sun, X.M., and Kelly A.: Experimental necrotizing enterocolitis. *J. Pediatr. Surg.* 26:1047-1049 (discussion 1049-50), 1991
 58. Caplan, M. S., Kelly, A. and **Hsueh, W.**. Endotoxin and hypoxia-induced intestinal necrosis: The role of platelet activating factor. *Pediatr. Res.* 31:428-434. 1992.
 59. **Hsueh, W.**, Caplan, M.S., Sun, X., Gonzalez-Crussi, F. Pathogenetic lessons from experimental models of necrotizing enterocolitis. *Pediatr. Surg. Internat.* 7:415-421, 1992.
 60. Shamsuddin, M., **Hsueh, W.**, and Smith, L.J.: Production of leukotrienes and thromboxane by resident and activated rat alveolar macrophages: The role of protein kinase C. *J. Lab. Clin. Med.* 120:434-443, 1992.
 61. Caplan, M. S., Adler, L., Kelly, A. and **Hsueh, W.** Hypoxia increases ionophore-induced PAF production and release from human umbilical vein endothelial cells. *Biochim. Biophys. Acta* 1128:205-210, 1992.
 62. Tan, X.-d., **Hsueh, W.***, and Gonzalez-Crussi, F. Cellular localization of TNF-alpha transcripts in normal bowel and in necrotizing enterocolitis. TNF gene expression in Paneth cells, intestinal eosinophils and macrophages. *Am. J. Pathol.* 142:1858-1865, 1993. (*corresponding author).
 63. MacKendrick, W., Caplan, M. and **Hsueh, W.** Endogenous nitric oxide protects against platelet-activating factor-induced bowel injury in the rat. *Pediatr. Res.* 34:222-228, 1993.
 64. MacKendrick, W., Hill N., **Hsueh, W.**, Caplan, M. Platelet activating factor levels in enterally fed premature infants. *Biol. Neonate* 64:89-95, 1993
 65. Sun, X.-M., Caplan, M.S., and **Hsueh, W.**. Tumor necrosis factor-alpha and endotoxin synergistically activate intestinal phospholipase A2 in mice. Role of endogenous PAF and effect of exogenous PAF. *Gut* 35:215-219, 1994.
 66. **Hsueh, W.**, Caplan, M.S., Sun, X., Tan, X.-d., MacKendrick, W., Gonzalez-Crussi, F. PAF, TNF, hypoxia and necrotizing enterocolitis. *Acta Paediatr. Suppl.* 396:11-17, 1994.
 67. Tan, X.-d., Sun, X.-M., Gonzalez-Crussi, F. X., Gonzalez-Crussi, F. **Hsueh, W.**. PAF and TNF increase the precursor of NF-kappa B p50 mRNA in mouse intestine: quantitative analysis by competitive PCR. *Biochim. Biophys. Acta* 1215: 157-162, 1994.
 68. deMello, D. E., Noguee, L. M. Heyman, S., Krous, H. F., Hussain, M. Merritt, T. A., **Hsueh, W.**, Haas, J.E., Heidelberger, K., Schumacher, R., Colten, H. R. Molecular and phenotypic variability in the congenital alveolar proteinosis syndrome associated with inherited surfactant protein B (SP-B) deficiency. *J. Pediatr.* 125:43-50, 1994.
 69. Huang, L.J., Tan, X.-d., Crawford, S. E., and **Hsueh, W.**. PAF and endotoxin induce TNF gene expression in rat intestine and liver. *Immunology* 83:65-69, 1994.

70. Caplan M. S., Hedlund, E., Adler, L., and **Hsueh, W.** The role of asphyxia and feeding in a neonatal rat model of necrotizing enterocolitis. *Pediatr. Pathol.* 14:1017-1028, 1994
71. Sun, X.-M., Caplan, M. S., Liu, Y., and **Hsueh, W.** Endotoxin resistant mice are protected from PAF-induced shock, tissue injury and death. Roles of TNF, complement activation and endogenous PAF production. *Digest. Dis. Sci.* 40:495-502, 1995.
72. Sun, X.-M., MacKendrick, W., Tien, J., Huang, W., Caplan, M.S. and **Hsueh, W.** Endogenous bacterial toxin is required for the injurious effect of PAF. *Gastroenterology* 109:83-88, 1995.
73. Sun, X.-M., Qu, X.-w. Huang, W., Granger, D. N. Bree, M. and **Hsueh, W.** The role of leukocyte beta 2-integrin in PAF-induced shock and intestinal injury. *Am. J. Physiol.* 270:G184-190, 1996.
74. Tan, X-d., Wang, H., Gonzalez-Crussi, F.X., Chang, H., Gonzalez-Crussi, F., and **Hsueh, W.:** PAF and endotoxin increase the enzyme activity and gene expression of type II phospholipase A₂ in the rat intestine: Role of polymorphonuclear leukocytes. *J. Immunol.* 156:2985-2990, 1996.
75. Qu, X-W., Huang, L., Burthart, T., Crawford, S.E., Caplan, M.S., and **Hsueh, W.:** Endotoxin induces PAF production in the rat ileum: Quantitation of tissue PAF by an improved method. *Prostaglandins* 51:249-262, 1996.
76. **Hsueh, W.,** Tan, X.-d., Qu, X.-w., Sun, X.-m., Gonzalez-Crussi, F. Injurious and protective mechanisms in the gut: Interaction of PAF, phospholipase A₂, eicosanoids, and nitric oxide synthase. *Adv. Exp. Biol. Med.* 407: 365-369, 1996.
77. Wang, H., Tan, X-d., Chang, H., Gonzalez-Crussi, F., Remick, D. G., and **Hsueh, W.** Regulation of platelet-activating factor receptor gene expression in vivo by endotoxin, platelet-activating factor and endogenous tumour necrosis factor. *Biochem. J.* 322:603-608, 1997
78. Caplan, M.S., Hedlund, E., Adler, L., Lickerman, M., and **Hsueh, W.** The platelet-activating factor receptor antagonist WEB 2170 prevents neonatal necrotizing enterocolitis in rats. *J. Pediatr. Gastroenterology Nutr.* 24:296-301, 1997.
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