

---

**Education**

---

B.S. (Biochemistry, Chemistry), University of California at Davis	1968
M.D. (Medicine), University of California at Davis	1973

---

**Board Certification**

---

American Board of Internal Medicine	1977
American Board of Internal Medicine Pulmonary Diseases	1983
Certification in Critical Care	1988
Re-certification in Critical Care	2001

---

**Honors**

---

---

**Publications**

---

1. **Fisher JH**, Gusella JF, Scoggin CH: Molecular hybridization under conditions of high stringency permits cloned DNA segments containing reiterated DNA sequences to be assigned to specific chromosomal locations. *Proc Natl Acad Sci (USA)*; 81:520-524, 1984.
2. **Fisher JH**, Miller YE, Sparkes RE, Carey TE, Scoggin CH: Wilms' tumor- aniridia syndrome: segregation of the affected chromosome in somatic cell hybrids. *Somatic Cell Gene Molec Gene* 10:455-464, 1984.
3. Scoggin CH, **Fisher JH**, Shoemaker SA, Morse H, Leigh T, Riccardi VM: The E7 associated cell surface antigen: A marker for the 11p13 chromosomal deletion associated with aniridia-wilms' tumor. *J Hum Gene* 37:883-889, 1985.
4. Libby LS, **Fisher JH**, Scoggin CH: A method to isolate nick translated DNA by subsequent separation on low melting temperature agarose. *Analyt Biochem* 146:23, 1985.
5. Shoemaker SA, **Fisher JH**, Scoggin CH: DNA Hybridization techniques detect small numbers of mycobacteria with no cross-hybridization with non-mycobacterial Respiratory organisms. *Am Rev Resp Dis* 131:260-263, 1985.
6. Emrie PA, **Fisher JH**: RFLP for HP30, D11S28, an anonymous genomic clone localized to 11p12. *Nucleic Acids Res* 14:1919, 1986.
7. Shoemaker SA, **Fisher JH**, Jones W, Scoggin CH: Restriction fragment analysis of chromosomal DNA defines different strains of mycobacterium tuberculosis. *Am Rev Resp Dis* 134:210-213, 1986.
8. **Fisher JH**, Scoggin CH, Rogler CF: Sequences which flank an 11p deletion observed in an hepatocellular carcinoma map to 11p13. *Human Gene* 75(1):66-69, 1987.
9. **Fisher JH**, Kao FT, Jones C, White RT, Benson BJ, Mason R: The coding sequence for the 32,000-dalton pulmonary surfactant-associated protein A is located on chromosome 10 and identifies two separate restriction-fragment-length polymorphisms. *Am J Hum Genet* 40:503-511, 1987.
10. Sano K, **Fisher JH**, Mason RJ, Kuroki Y, Schilling J, Benson B, and Voelker D: Isolation and sequence of a cDNA clone for the rat pulmonary surfactant-associated protein (SP-A). *Biochem Biophys Res Commun* 144(1):367-373, 1987.

11. Emrie PA, Jones C, Hoffmann T, **Fisher JH**: The coding sequence for the human 18,000 dalton hydrophobic pulmonary surfactant protein is located on chromosome 2 and identifies a restriction fragment length polymorphism. *Somatic Cell Molec Genet* 14(1):105-110, 1988.
12. **Fisher JH**, Emrie PA, Shannon JM, Sano K, Hatler B, Mason RJ: Rat pulmonary surfactant protein-A is expressed as two differently sized mRNA species which arise from differential polyadenylation of one transcript. *Biochim Biophys Acta* 950:338-345, 1988.
13. **Fisher JH**, Emrie PA, Drabkin HA, Kushnick T, Gerber M, Hofmann T, Jones C: The gene encoding the hydrophobic surfactant protein SP-C is located on 8p and identifies an Eco R-I restriction fragment length polymorphism. *Am J Hum Genet* 43:436-441, 1988.
14. **Fisher JH**, Emrie PA, Shannon JM, Hofmann T, Mason RJ: Nucleotide and deduced amino acid sequence of the hydrophobic surfactant protein SP-C from rat: Expression in alveolar cells and homology with SP-C from other species. *Biochim Biophys Acta* 995:225-230, 1989.
15. Emrie PA, Shannon JM, Mason RJ, **Fisher JH**: cDNA and deduced amino acid sequence for the rat hydrophobic pulmonary surfactant associated protein SP-B. *Biochim Biophys Acta* 994:215-221, 1989.
16. Schellhase DE, Emrie PA, **Fisher JH**, Shannon JM: Ontogeny of surfactant proteins in the rat. *Pediat Res* 26(3):167-74, 1989.
17. Bakerman PR, Stenmark KR, **Fisher JH**: Alpha-skeletal actin messenger RNA increases in acute right ventricle hypertrophy. *Am J Physiol: Lung Cell Molec Biol* 258:L173-L178, 1990.
18. Shannon JM, Emrie PA, **Fisher JH**, Kuroki Y, Jennings SD, Mason RJ: Effect of a reconstituted basement membrane on expression of surfactant apoproteins in cultured adult rat alveolar type II cells. *Am J Resp Cell Molec Biol* 2:183-192, 1990.
19. McCormack FX, **Fisher JH**, Suwabe A, Smith DL, Shannon JM, Voelker DR: Expression and characterization of rat surfactant protein A synthesized in Chinese hamster ovary cells. *Biochim Biophys Acta* 1087:190-198, 1990.
20. Hendrickson D, **Fisher JH**, Jones C, Ho Yeshih: Regional localization of human extracellular superoxide dismutase gene to 4pter-q21. *Genomics* 8:736-738, 1990.
21. Miller YE, Drabkin H, Jones C, **Fisher JH**: Human aminoacylase-1: Cloning, regional assignment to distal chromosome 3p21.1 and identification of a cross-hybridizing sequence on chromosome 18. *Genomics* 8:149-154, 1990.
22. **Fisher JH**, McCormack FX, Park SS, Stelzner T, Shannon JM, Hofmann T: In vivo regulation of surfactant proteins by glucocorticoids. *Am J Resp Cell Molec Biol* 5:63-70, 1991.
23. Stelzner T, O'Brien RF, Yanagisawa M, Sakurai T, Sato K, Webb S, Zamora M, McMurtry IF, **Fisher JH**: Increased endothelin-1 and preproendothelin-1, mRNA expression in lungs from rats with idiopathic pulmonary hypertension. *Am J Physiol: Lung Cell Molec Biol* 262(5):L614, 1992.
24. Shimizu H, **Fisher JH**, Papst P, Benson B, Law K, Mason RJ, Voelker DR: Primary structure of rat pulmonary surfactant protein D: cDNA and deduced amino acid sequence. *J Biol Chem* 267(3):1853-1857, 1992.

25. Beers MF, Wall A, Eckenhoff MF, Feinstein SI, **Fisher JH**, Fisher AB: An antibody with specificity for surfactant protein C precursors: Identification of pro-SP-C in rat lung. *Am J Resp Cell Molec Biol* 7:368-378, 1992.
26. Jones RB, Matthes S, Shpall EJ, Peters WP, **Fisher JH**, Stemmer SM, Stephens JK, Bearman SI: Acute lung injury following high-dose cyclophosphamide, cisplatin, and carmustine with autologous bone marrow support: Pharmacologic evaluation of the role of BCNU. *J Natl Cancer Inst* 85:640-647, 1993.
27. Fabio CR, Fiacomo M, Borrello MG, Colombo MP, **Fisher JH**, Pierotti MA, Giuseppe CP, and Dragani TA: Multiple molecular alterations in mouse lung tumors. *Molec Carcinogenesis* 5:155-160, 1992.
28. Deterding RR, Shimizu H, **Fisher JH**, Shannon JM: Regulation of surfactant protein D expression by glucocorticoids in vitro and in vivo. *Am J Resp Cell Molec Biol* 10:30-37, 1994.
29. Kinnard WV, Papst P, Tuder R, **Fisher JH**. Epithelial cell differentiation and proliferation in an adult lung slice explant culture system. *Lung, cell and molecular biology. Am J Resp Cell Molec Biol* 11:416-25, 1994.
30. Zamora MR, Fullerton DA, Campbell DN, Leone S, Diercks MJ, **Fisher JH**, Badesch DB, Grover FL. Use of cytomegalovirus (CMV) hyperimmune globulin for prevention of CMV disease in CMV-seropositive lung transplant recipients. *Transplant Proc* 26 (Suppl 1): 49-51, 1994.
31. **Fisher JH**, Mason RJ: Expression of surfactant protein D in gastric mucosa. *Am J Resp Cell Molec Biol* 12:13-18, 1995.
32. Rishi AK, Joyce-Brady M, **Fisher JH**, Dobbs LG, Floros J, VanderSpek J, Brody JS, Williams MC: Cloning, characterization and developmental expression of a rat lung alveolar Type I cell gene in embryonic endodermal and neural derivatives. *Developmental Biol* 167:294-306, 1995.
33. Gass R, **Fisher JH**, Badesch D, Zamora M, Weinberg A, Melsness H, Grover F, Tully JG, Fang FC: Donor-to-host transmission of *Mycoplasma hominis* in lung allograft recipients. *Clin Infect Dis* 22:567-568, 1996.
34. McIntosh JC, Swyers AH, **Fisher JH**, Wright JR. Surfactant proteins A and D increase in response to intratracheal lipopolysaccharide. *Am J Resp Cell Mol Biol* 15:509-1996.
35. Chen Y-Q, **Fisher JH**, Wang M-H. Activation of the RON receptor tyrosine kinase inhibits inducible nitric oxide synthase expression by murine peritoneal exudate macrophages. *J Immunol* 161(9):4950-9, 1998.
36. Korfhagen TR, Sheftelyevich V, Burhans MS, Bruno MD, Wert SE, Stahlman MT, Jobe AH, Ikegami M, Whitsett JA, **Fisher JH**. Surfactant protein-D regulates pulmonary surfactant homeostasis *J. Biol. Chemistry* 273(43):28438-43, 1998.
37. **Fisher JH**, Sheftelyevich V, Ye-Shih Ho, Fligiel S, McCormack FX, Korfhagen TR, Whitsett JA, Ikegami MI. Pulmonary Specific Expression of SP-D Corrects Pulmonary Lipid Accumulation In SP-D Gene Targeted Mice. *Am J Physiol Lung Cell Mol Physiol* 278 (2): L365-73, 2000

38. Wert S, Jones T, LeVine A, Ikegami M, Ross G, **Fisher JH**, Korfhagen T, Whitsett J. Increased metalloproteinase activity, oxidant production, and emphysema in surfactant protein D gene-inactivated mice. *Proc Natl Acad Sci U S A* 2000, May 9.
39. Ikegami M, Whitsett JA, Jobe A, Ross G, **Fisher J**, Korfhagen T. Surfactant metabolism in SP-D gene-targeted mice. *Am J Physiol Lung Cell Mol Physiol*. 2000 Sep;279(3):L468-76. PMID: 10956621 [PubMed - indexed for MEDLINE]
40. LeVine AM, Whitsett JA, Gwozdz JA, Richardson TR, **Fisher JH**, Burhans MS, Korfhagen TR. Distinct effects of surfactant protein A or D deficiency during bacterial infection on the lung. *J Immunol*. 2000 Oct 1;165(7):3934-40.
41. Osanai K, Iguchi M, Takahashi K, Nambu Y, Sakuma T, Toga H, Ohya N, Shimizu H, **Fisher JH**, Voelker DR. Expression and localization of a novel Rab small G protein (Rab38) in the rat lung. *Am J Pathol* 2001 May;158(5):1665-75.
42. **Fisher JH**, Larson J, Cool C, Dow SW. Lymphocyte Activation in the Lungs of SP-D Null mice. *Am J. Resp. Cell & Mol. Biology* 2002 Jul;27(1):24-33.
43. Vandiver RW, Fadok VA, Ogden CA, Hoffmann PR, Brian JD, Accurso FJ, **Fisher JH**, Greene KE, Henson Pm. Impaired clearance of apoptotic cells from cystic fibrosis airways. *Chest* 2002 Mar;121(3 Suppl):89S.
44. Vandivier WR, Ogden CA, Fadok VA, Hoffmann PR, Brown KK, Botto M, Walport MJ, **Fisher JH**, Henson PM, Greene KE. Role of Surfactant Proteins A, D, and C1q in the Clearance of Apoptotic Cells In Vivo and In Vitro: Calreticulin and CD91 as a Common Collectin Receptor Complex. *J Immunol* 2002 Oct 1;169(7):3978-3986.
45. Greene K, Nick J, **Fisher JH**. SP-D regulates the in vivo inflammatory response to intratracheal LPS: Submitted *Am. J. Resp. Cell & Mol Biol*.
46. Chen YQ, Zhou YQ, **Fisher JH**, Wang MH. Targeted expression of the receptor tyrosine kinase RON in distal lung epithelial cells results in multiple tumor formation: oncogenic potential of RON in vivo. *Oncogene* 2002 Sep 12;21(41):6382-6.
47. Zhon YQ, Chen YQ, **Fisher JH**, Wang MH. Activation of the RON receptor tyrosine kinase by macrophage stimulating protein inhibits inducible cyclooxygenase-2 expression in murine macrophages. *J Biol Chem* 2002 Oct 11;277(41):38104-10.
48. Huixing Wu<sup>1</sup>, Alexander Kuzmenko<sup>1</sup>, Sijue Wan<sup>1</sup>, Lyndsay Schaffer<sup>2</sup>, Alison Weiss<sup>2</sup>, **Fisher JH**<sup>3</sup>, Kwang Sik Kim<sup>4</sup>, Francis X. McCormack<sup>1</sup>. Surfactant proteins A and D inhibit the growth of gram negative bacterial by increasing membrane permeability. *J. Clin. Invest*. 2003 May;111(10):1589-602
49. Takeda K, Miyahara N, Rha YH, Taube C, Yang ES, Joetham A, Kodar T, Balhorn AM, Dakhama, Duez C, Evans AJ, Voelker DR, Gelfand EW. Surfactant Protein D Regulates Airway Function and Allergic Inflammation through Modulation of Macrophage function. *Am J Respir Crit Care Med*. 2003 Oct 1;168(7):783-9. Epub 2003 Jul 25.
50. Zhang F, Pao W, Umphress SM, Jakowlew SB, Meyer AM, Dwyer-Nield LD, Nielsen LD, Takeda K, Gelfand EW, **Fisher JH**, Zhang L, Malkinson AM, Mason RJ. Serum levels of surfactant protein D are increased in mice with lung tumors. *Cancer Res*. 2003 Sep 15;63(18):5889-94.

51. Pavlovic A, M-o EK, Icenhour CR, Standing J, **Fisher JH**, and Limper AH. Surfactant Protein D Enhances Pneumocystis Infection in Immune Suppressed Mice. *Am J Physiol Lung Cell Mol Physiol*. 2005 Sept 30 [Epub ahead of print]
52. Casey j, Kaplan J, Atochina-Vasserman EN, Gow AJ, Helchem K, Tomer Y, **Fisher J**, Hawgood D, Savani RC, Beers MF. Alveolar Surfactant Protein D Content Modulates Bleomycin Induced Lung Injury. *American Journal of Respiratory and Critical Care Medicine* 2005 Oct 1; 172(7): 869-77.

Review Articles, Chapters and Editorials:

1. **Fisher JH**, Scoggin CH: The new molecular biology. *Disease a Month*, Vol. No.2, 1983.
2. **Fisher JH**, Scoggin CH: The molecular biology of lung cancer. *Current Pulmonology*, 1985.
3. **Fisher JH**, Scoggin CH: Molecular mechanisms in malignancy. In: *Diseases of the Kidney*. Schrier, RW (Ed.), pp. 853-863, 1985.
4. **Fisher JH**, Klinger K: (Editorial) Closing in on the cystic fibrosis gene(s). *Am Rev Resp Dis* 132:1149-1151, 1985.
5. **Fisher JH**, Miller YE, (Eds.): *Molecular biology genetics and the lung*. *Sem in Resp Med* 7:4;307-376, 1986.
6. **Fisher JH**, Emrie PA: The genetic basis of cystic fibrosis. *Sem in Resp Med* 7:4;359, 1986.
7. Sausville E: State of the art: Oncogenes, growth factors, and lung cancer. *Chest* 91:3;13S, 1987. [Reported by **Fisher JH**]
8. Koufos A: State of the art: Recessive mutation predisposing to cancer. *Chest* 91:3;18S, 1987. [Reported by **Fisher JH**]
9. **Fisher JH**: (Update). *Am J Resp Cell Mol Biol*: Vol. 2, p. 1, 1990.
10. **Fisher JH**, Emrie PA, Shannon JM, Mason RJ: Chromosomal location of human surfactant protein genes and a comparative study of surfactant protein structure. In: *Progress in Respiration Research: Basic Research on Lung Surfactant*, von Wichert P, Muller B (Eds.), S Karger AG, Basel, pp.8-14, 1990.
11. **Fisher JH**: Infectious complications of lung transplantation. *Seminars Resp Crit Care Med* 17: 167-171, 1996.

Case Reports:

1. King TA, Schwarz MI, **Fisher JH**: Patzels L. Bilateral Hilar Adenopathy: An unusual presentation of metastatic hypernephroma. *Thorax* 37:317-318, 1982.
2. Iannuzzi MC, Bostrom PP, Farhi DC, Petty TL, **Fisher JH**: Fulminant Respiratory failure and death in a patient with idiopathic bronchiolitis obliterans. *Arch Int Med* 145:733-734, 1985.

- Nick J, **Fisher JH.**: Polyarteritis nodosa with pulmonary vasculitis. Am J Resp Crit Care Med 153:450-453. 1996.

---

**Funded Research**

---

- Cystic Fibrosis Foundation #1041:5-01; "Assignment of the CF gene to a specific chromosome";7/1/83-6/30/85 - \$120,000; Principal Investigator
- ACS Institutional Grant "Mapping expressed genes to chromosomal locations using subtraction hybridization of complex cDNA probes". 8/1/85-11/30/86 - \$5,000; Principal Investigator
- ACCP Physician Scientist Award. 7/1/88-6/30/90. \$70,000; Principal Investigator
- NIH RO1 HL 41320-01 "The regulation of surfactant protein gene expression". 7/1/88-6/30/93 - Annual Direct Costs: \$482,603. Competitive Renewal HL41320-06; 10/1/94-9/30/97-\$503,000; Competitive Renewal RO1 HL41320-10, 12/1/97-11/30/2001, \$519,229; Principal Investigator
- Pharmacokinetics, and Effective Dose Range and Dosing Duration for Recombinant Activated Protein C in Sepsis. 4/25/96-4/30/97 - \$38,856; Principal Investigator
- NIH RO1 HL -01 "The Ron Receptor in Regulation of Macrophage INOS Expression", July 1998-June 2002, Annual Direct Costs \$548,757 Co-investigator, 5% Effort
- NIH Subcontract: Mechanisms of Regulation of Surfactant Homeostasis by SP-D. September 1999 - August 2003, Annual Direct Costs 28,000, 5% Effort.
- NIH R0141820-Competing Renewal Pending. Regulation and Function of SP-D , 3/01/02-2/24/07, Direct costs \$1,250,000.00.
- NIH R01 HL-05 The Ron Receptor in Regulation of Macrophage INOS Expression. 7/03-6/07 Co-Investigator, 5% effort. Direct costs \$1,125,000.00
- NIH HL-03-002 Novel strategies for targeting exacerbations of COPD PI R Albert Annual Direct Costs \$641219 annual Indirect Costs \$219858. Consultant 5% effort.
- NIH Pending: Oncogenic mechanisms of RON in lung epithelial cells  
Start and end date:7/1/04-6/30/09 Total direct cost: 1,259,000 Role on project: Co-Investigator % salary support:5%