



Francis R. Poulain, M.D.

Clinical Interests	Dr. Poulain focuses his research on the biology of lung surfactant and its metabolism using a variety of biophysical and molecular techniques. He serves as a senior mentor to other researchers, advising them about laboratory methods, molecular biology techniques, grant writing, and design and implementation of studies.
Title	Associate Professor Director of Neonatal-Perinatal Training Program
Specialty	Pediatric Neonatology
Department	Pediatrics
Division	Neonatology
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Languages	French
Education	M.D., University of Medicine, Caen, 1975 B.S., Institut Notre-Dame, Avranches, France, 1969 Certificate, Universite Rene Descarte, Paris, 1979
Residency	University of Utah, Salt Lake City, Utah, 1985-1988
Fellowships	UC San Francisco, San Francisco, California, 1988-1991
Board Certifications	American Board of Pediatrics, 1999 American Board of Pediatrics, Neonatal-Perinatal Medicine, 1999
Professional Memberships	American Academy of Pediatrics American Academy of Pediatrics, Fellow American Association for the Advancement of Science American Thoracic Society Society for Pediatric Research



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Western Society for Pediatric Research

Select Recent Publications

- Hortobágyi L, Kierstein S, Krytska K, Zhu X, Das AM, Poulain F, Haczku A. Surfactant protein D inhibits TNF-alpha production by macrophages and dendritic cells in mice. *J Allergy Clin Immunol*. 2008 Sep;122(3):521-8. Epub 2008 Jun 12.
- Chiou HL, Diaz R, Orlino E Jr, Poulain FR. Acute airway obstruction by a sheared endotracheal intubation stylet sheath in a premature infant. *J Perinatol*. 2007 Nov;27(11):727-9.
- Haczku A, Cao Y, Vass G, Kierstein S, Nath P, Atochina-Vasserman EN, Scanlon ST, Li L, Griswold DE, Chung KF, Poulain FR, Hawgood S, Beers MF, and Crouch EC. IL-4 and IL-13 Form a Negative Feedback Circuit with Surfactant Protein-D in the Allergic Airway Response. *J Immunol*. 176(6):3557-3565.
- Kierstein S, Poulain FR, Cao Y, Grous M, Mathias R, Kierstein G, Beers MF, Salmon M, Panettieri RA Jr, Haczku A. Susceptibility to ozone-induced airway inflammation is associated with decreased levels of surfactant protein D. *Respir Res*. 2006 Jun 1;7:85.
- Sorensen GL, Madsen J, Kejling K, Tornoe I, Nielsen O, Townsend P, Poulain F, Nielsen CH, Reid KB, Hawgood S, Falk E, Holmskov U. Surfactant protein D is proatherogenic in mice. *Am J Physiol Heart Circ Physiol*. 2006 Jun;290(6):H2286-94. Epub 2005 Dec 30.
- Hawgood S, Brown C, Edmondson J, Stumbaugh A, Allen L, Goerke J, Clark H, and Poulain F. Pulmonary collectins modulate strain-specific type A influenza infection and host responses. *J Virol*. Aug, 78(16):8565-72, 2004
- Atochina EN, Beers MF, Hawgood S, Poulain F, Davis C, Fusaro T, and Gow AJ. Surfactant Protein-D, a mediator of innate lung immunity, alters the products of NO metabolism. *Am J Respir Cell Mol Biol*. 30(3):271-9, 2004.
- Atochina EN, Gow AJ, Beck JM, Haczka A, Inch A, Kadire H, Tomer Y, Davis C, Preston AM, Poulain F, Hawgood S, and Beers MF. Delayed clearance of pneumocystis carinii infection, increased inflammation, and altered nitric oxide metabolism in lungs of surfactant protein-D knockout mice. *J Infect Dis*. 189(8):1528-9, 2004.
- Hawgood S, Ochs M, Jung A, Akiyama J, Allen L, Brown C, Edmondson J, Levitt S, Carlson E, Gillespie AM, Villar A, Epstein CJ, Poulain FR. Sequential targeted deficiency of SP-A and -D leads to progressive alveolar lipoproteinosis and emphysema. *Am J Physiol Lung Cell Mol Physiol*. 2002 Nov;283(5):L1002-10.
- Hawgood S, Poulain FR. The pulmonary collectins and surfactant metabolism. *Annu Rev Physiol*. 2001;63:495-519. Review.
- Poulain FR, Clements JA. Pulmonary surfactant therapy. *West J Med*. 1995 Jan;162(1):43-50.



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Review.

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