

**Parley Fillmore**

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EDUCATION

**University of Illinois at Urbana-Champaign, Medical Scholars Program (1998- Present)**

**Ph.D.**, Veterinary Pathobiology, December 2003

- Thesis Title: Genetic and sex steroid hormone contributions to the sexual dimorphism in murine experimental allergic encephalomyelitis.
- Advisors: Cory Teuscher, Ph.D. & James Zachary, D.V.M., Ph.D.

**M.D.**, Expected Graduation: May 2005

- Passed USMLE Step 1 with a score of 247 (99) in August, 2003

**Brigham Young University, Provo, UT (1991-1998)**

**B.S.**, Psychology with Minors in Chemistry and Zoology

- Hiatus to serve as a missionary for The Church of Jesus Christ of Latter-day Saints in Antwerp, Belgium (1992-1994)

HONORS/AWARDS

**NIH Individual NRSA MD/PhD Fellowship** – granted by the National Institute of Neurological Disorders and Stroke (NINDS) - May 2002-Present.

**2<sup>nd</sup> place**, American College of Physicians/ASIM research poster competition, Illinois Associates Meeting, May 3, 2002.

**Participant**, Summer Institute for Statistical Genetics, North Carolina State University, May-June 2001

RESEARCH EXPERIENCE

**Post-doctoral Research**, University of Illinois at Urbana-Champaign, 2002-Present

Effect of an Intra-corneal Fluid Interface Following Keratotomy on Intraocular Pressure Measurement by Applanation. Advisors: Samir Sayegh, M.D., Ph.D. and Paul Gerding D.V.M.

**Research Assistant**, University of Illinois at Urbana-Champaign, 1998-2003

Genetic analysis of the sexually dimorphic nature of experimental autoimmune encephalomyelitis in mice. Advisors: Cory Teuscher, Ph.D. & James Zachary, D.V.M., Ph.D.

RESEARCH EXPERIENCE (CONT.)**Undergraduate Research Assistant**, Brigham Young University, 1997-1998

Analysis of white matter atrophy in Alzheimer's Disease patients. Advisor: Erin Bigler, Ph.D.

**Undergraduate Research Assistant**, Brigham Young University, 1995-1997

Developmental genetics of *Tribolium castaneum*. Advisor: Randy Bennett, Ph.D.

PUBLICATIONS

- Teuscher, C., J.Y. Bunn, **P.D. Fillmore**, R.J. Butterfield, J.F. Zachary, and E.P. Blankenhorn. 2004. Gender, age, and season at immunization uniquely influence the genetic control of susceptibility to histopathological lesions and clinical signs of experimental allergic encephalomyelitis: Implications for the genetics of multiple sclerosis. *American Journal of Pathology*, 165(5):1593-602.
- Polanczyk, M., A. Zamora, S. Subramanian, M. Tovey, A.A. Vandenbark, H. Offner, S. Yellayi, J.F. Zachary, **P.D. Fillmore**, E.P. Blankenhorn, J. Gustafsson, and C. Teuscher. 2004. Estrogen Receptor-1 (*ESR1*) and -2 (*ESR2*) regulate the severity of clinical experimental allergic encephalomyelitis in male mice. *American Journal of Pathology*, 164(6):1915-1924.
- Teuscher, C., M.E. Poynter, H. Offner, A. Zamora, T. Watanabe, **P.D. Fillmore**, J.F. Zachary, and E.P. Blankenhorn. 2004. Attenuation of Th1 effector cell responses and susceptibility to experimental allergic encephalomyelitis in histamine H<sub>2</sub> receptor knockout mice is due to dysregulation of cytokine production by antigen presenting cells. *American Journal of Pathology*, 164(3):883-892.
- Fillmore, P. D.**, Blankenhorn, E. P. Zachary, J.F. & Teuscher, C. 2004. Adult gonadal hormone concentrations selectively regulate sexually dimorphic quantitative traits observed in experimental allergic encephalomyelitis. *American Journal of Pathology*, 164(1):167-175.
- McAllister, R.D., Y. Singh, W.D du Bois, M. Potter, T. Boehm, N.D. Meeker, **P.D. Fillmore**, L.M. Anderson, M.E. Poynter, and C. Teuscher. 2003. Susceptibility to anthrax lethal toxin is controlled by three linked quantitative trait loci. *American Journal of Pathology* 163(5):1735-1741.
- Fillmore, P. D.**, M. Brace, S.A. Troutman, E.P. Blankenhorn, M. Rincon, S.A. Diehl, and C. Teuscher. 2003. Genetic analysis of the influence of neuroantigen-complete Freund's adjuvant emulsion structures on the sexual dimorphism and susceptibility to experimental allergic encephalomyelitis. *American Journal of Pathology* 163(4):1623-1632.
- Gao, J., S.B. Call, **P.D. Fillmore**, T. Watanabe, N.D. Meeker, and C. Teuscher. 2003. Analysis of the role of *Bphs/Hrh1* in the genetic control of responsiveness to pertussis toxin. *Infection and Immunity* 71(3):1281-1287.

TEACHING EXPERIENCE

**Teaching Assistant**, *Introduction to Clinical Medicine Tutorials* (2004-Present)

**Lead teacher trainer and MCAT teacher**, Kaplan, Inc., Champaign, IL (1999-2003)

**Teaching Assistant**, Veterinary Immunology course (2002)

PRESENTATIONS

**Fillmore, P.D.**, P. Gerding, and S. Sayegh. Effect of an intra-corneal fluid interface following keratotomy on intraocular pressure measurement by applanation. Association for Research in Vision and Ophthalmology, April 25, 2004.

**Fillmore, P.D.** Genetic and Sex Steroid Hormone contributions to Experimental Allergic Encephalomyelitis. University of Illinois College of Medicine Research Symposium, April 23, 2004.

**Fillmore, P.D.**, E.P. Blankenhorn, J.F. Zachary, and C. Teuscher. Gonadal hormones exhibit sex-specific effects on the CNS lesions in experimental allergic encephalomyelitis in the mouse. Medical Scholars Program Fall Retreat. Monticello, IL. August 2003.

**Fillmore, P.D.**, R.Z. Ma, J. Gao, N.D. Meeker, K.S.K. Tung, T. Watanabe, J.F. Zachary, H. Offner, E.P. Blankenhorn, and C. Teuscher. From mouse to man: Identification of the first common autoimmunity-regulating gene by a positional cloning approach. American College of Physicians, Illinois Scientific Meeting. Champaign, IL. May 3, 2002.

**Fillmore, P.D.**, R.Z. Ma, J. Gao, N.D. Meeker, K.S.K. Tung, T. Watanabe, J.F. Zachary, H. Offner, E.P. Blankenhorn, and C. Teuscher. *Bphs*, the autoimmune disease susceptibility locus associated with pertussis toxin adjuvanticity, is *Hrh1*. Federation of American Societies for Experimental Biology (FASEB). The American Association for Immunologists (AAI) section. New Orleans, LA. April 20, 2002.

**Fillmore, P.D.**, R.J. Butterfield, E.P. Blankenhorn, and C. Teuscher. Analysis of the Sexual Dimorphism in Susceptibility to Experimental Autoimmune Encephalomyelitis in Mice. World Neuroimmunology Congress. Edinburgh, Scotland. September 4-7, 2001.

**Fillmore, P.D.**, N.D. Meeker, and C. Teuscher. *Bordetella pertussis* toxin -induced histamine sensitization factor (BPHS) is also responsible for sensitization to serotonin and peptone. Medical Scholar Program Allerton Retreat, University of Illinois. Urbana, IL. August 2000.

PROFESSIONAL MEMBERSHIPS

**Association for Research in Vision and Ophthalmology** (2004-Present)

**American College of Physicians** (2000-Present)

- Represented ACP before members of US Congress, May 2001

**American Medical Association** (1998-Present)

COMMITTEES

**Member**, University Medical Student Council—Committee on Research 2003-Present

**Member**, Urbana Medical Student Government—Educational Policy Committee and Basic Science  
Sub-committee, August 2001-2002

EDITORIAL BOARDS

**Reviewer**, *Carle Selected Papers* (2004-Present)

LANGUAGES

**Dutch** (fluent)

BUSINESS EXPERIENCE

Started and ran a successful produce retail business (1995-1998)

Developed a successful importing business (1994-1998)

PERSONAL DATA

Married Amy Southam on December 28, 1999.

- Son, David, born January 25, 2001.

- Daughter, Katie, born May 28, 2002.

- Daughter, Ariel, born January 13, 2004.