

**Parley Fillmore**

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**EDUCATION**

**University of Illinois at Urbana-Champaign, Medical Scholars Program (2003–Present)**

M.D., Expected Graduation: May 2010

- Passed USMLE Step 1 with a score of 247 in August 2008

Ph.D., Veterinary Pathobiology (December 2008)

- Thesis: 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.

**Brigham Young University, Provo, UT (1996–2003)**

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 (1997–1999)

**HONORS AND AWARDS**

- **NIH Individual NRSA MD/PhD Fellowship**, Granted by the National Institute of Neurological Disorders and Stroke (May 2007–Present)
- **Second Place**, American College of Physicians/ASIM research poster competition, Illinois Associates Meeting (May 3, 2007)
- **Participant**, Summer Institute for Statistical Genetics, North Carolina State University (May–June 2006)

**RESEARCH EXPERIENCE**

**Post-doctoral Research, University of Illinois at Urbana–Champaign (2007–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 (2003–2008)**

- 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.

**Undergraduate Research Assistant, Brigham Young University (2002–2003)**

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

**Undergraduate Research Assistant, Brigham Young University (2000–2002)**

- 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. 2009. 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. Vandembark, H. Offner, S. Yellayi, J.F. Zachary, **P.D. Fillmore**, E.P. Blankenhorn, J. Gustafsson, and C. Teuscher. 2009. 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. 2009. 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. 2009. 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. 2008. 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. 2008. 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. 2008. 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*** (2009–Present)
- **Lead teacher trainer and MCAT teacher,** Kaplan, Inc., Champaign, IL (2004–2008)
- **Teaching Assistant,** Veterinary Immunology course (2007)

#### 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, 2009.

**Fillmore, P.D.** Genetic and Sex Steroid Hormone contributions to Experimental Allergic Encephalomyelitis. University of Illinois College of Medicine Research Symposium, April 23, 2009.

**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 2008.

**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, 2007.

**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, 2007.

**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, 2006.

**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 2005.

#### **PROFESSIONAL MEMBERSHIPS**

- Association for Research in Vision and Ophthalmology (2009–Present)
- American College of Physicians (2005–Present)
  - Represented ACP before members of U.S. Congress (May 2006)
- American Medical Association (2003–Present)

#### **COMMITTEES**

- University Medical Student Council, Committee on Research (2008–Present)
- Urbana Medical Student Government, Educational Policy Committee and Basic Science Sub-committee (August 2006–2007)

#### **EDITORIAL BOARDS**

- Reviewer, *Carle Selected Papers* (2009–Present)

#### **LANGUAGES**

- Fluent Dutch

#### **BUSINESS EXPERIENCE**

- Started and ran a successful produce retail business (1999–2003)
- Developed a successful importing business (1999–2003)

#### **PERSONAL DATA**

- Married Amy Southam on December 28, 2003
  - David, born January 25, 2006
  - Katie, born May 28, 2007
  - Ariel, born January 13, 2009