

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 H₂ 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