

## Ann M. Sheehy

### EDUCATION

University of Pennsylvania, Philadelphia, PA <b>Postdoctoral Fellowship</b> , molecular virology	1998-2002
Johns Hopkins School of Medicine, Baltimore, MD <b>Ph.D.</b> , Immunology	1991-1998
Friedrich-Wilhelm Universitat, Bonn, Germany Junior Year Abroad Program	1989-1990
Kalamazoo College, Kalamazoo, MI <b>B.A.</b> , Biology and Chemistry, <i>cum laude</i>	1987-1991
<b>Johns Hopkins School of Medicine</b> Reading for Life outreach program	1995-1997
<b>Johns Hopkins School of Medicine</b> Teaching Assistant for medical immunology	January-June 1995

### RESEARCH EXPERIENCE

King's College London, London, U.K. <i>Senior Research Associate</i> The investigation and characterization of CEM15	2002-present
University of Pennsylvania, Philadelphia, PA <i>Postdoctoral Fellow</i> The interaction of cellular host factors with HIV-1 Vif. Michael H. Malim, D. Phil.	1998-2002
Johns Hopkins School of Medicine <i>Doctoral Student.</i> The role of the NF- $\kappa$ B DNA-binding site and the <i>rel</i> family of transcription factors in B cell development. Committee: Mark Schlissel, M.D., Ph.D., Advisor; Stephen Desiderio, M.D., Ph.D.; Jeff Corden, Ph.D.; Barbara Sollner-Webb, Ph.D.	1991-1998
Upjohn Pharmaceuticals, Kalamazoo, MI Drug Delivery Systems Research Department <i>Research Intern.</i> Investigation and characterization of the intrapulmonary delivery of renin and HIV protease inhibitors. Mary J. Ruwart, Ph.D., Advisor	January-August 1991

### ABSTRACTS

**Sheehy, Ann.** (2004). Regulation of APOBEC3G by Vif. 11<sup>th</sup> Conference on Retroviruses and Opportunistic Infections. San, Francisco, CA. **Invited Speaker.**

**Sheehy, A.M.** and Malim, M.H. (2002) The identification of cellular host factors that contribute to the HIV-1 Vif Phenotype. XIV International AIDS Conference. Barcelona, Spain. **Invited Speaker.**

**Sheehy, A.M.** and Malim, M.H. (2002) The identification of cellular host factors important for the HIV-1 Vif Phenotype. 9<sup>th</sup> Conference on Retroviruses and Opportunistic Infections. Seattle, Washington. Oral presentation.

**Sheehy, A.M.** and Malim, M.H. (2001) The interaction of cellular host factors with HIV Vif. Cold Spring Harbor Retroviruses Meeting. Cold Spring Harbor, NY Oral presentation.

## **PUBLICATIONS:**

Newman, Edmund N.C., Holmes, Rebecca K., Craig, Heather M., Klein, Kevin C., Lingappa, Jaisiri R., Malim, Michael H., and **Sheehy, Ann M.** (2005). Anti-Viral Function of APOBEC3G can be Dissociated from Cytidine Deaminase Activity. *Curr. Biol.* 15: 166-70.

Gaddis, Nathan C., **Sheehy, Ann M.**, Ahmad, K. Muneer, Swanson, Chad M., Bishop, Kate N., Beer, Brigitte E., Marx, Preston A., Gao, Feng, Bibollet-Ruche, Frederic, Hahn, Beatrice H., and Malim, Michael H. (2004). Further Investigation of Simian Immunodeficiency Virus Vif Function in Human Cells. *J. Virol.* 78: 12041-12046.

Bishop, Kate N., Holmes, Rebecca K., **Sheehy, Ann M.**, Davidson, Nicholas O., Cho, Soo-Jin, and Malim, Michael H. (2004). Cytidine Deamination of Retroviral DNA by Diverse APOBEC Proteins. *Curr. Biol.* 14: 1392-96.

**Sheehy, Ann M.**, Gaddis, Nathan C., and Malim, Michael H. (2003). The antiretroviral enzyme APOBEC3G is degraded by the proteasome in response to HIV-1 Vif. *Nat. Med.* 9: 1404-7.

Harris RS, **Sheehy AM**, Craig HM, Malim MH, Neuberger MS. (2003). DNA deamination: not just a trigger for antibody diversification but also a mechanism for defense against retroviruses. *Nat. Immunol.* 4: 641-3.

Harris RS, Bishop KN, **Sheehy AM**, Craig HM, Petersen-Mahrt SK, Watt IN, Neuberger MS, Malim M.H. (2003). DNA deamination mediates innate immunity to retroviral infection. *Cell* 113: 803-9.

Gaddis, N.C., Chertova, E., **Sheehy, A.M.**, Henderson, L.E. and Malim, M.H. (2003) Comprehensive Investigation of the Molecular Defect in *vif*-Deficient Human Immunodeficiency Virus Type 1 Virions. *J. Virol.* 77: 5810-5820.

**Sheehy, Ann M.**, Gaddis, Nathan C., Choi, Jonathan D. and Malim, Michael H. (2002). Isolation of a human gene that inhibits HIV-1 infection and is suppressed by the viral Vif protein. *Nature* 418: 646-650.

**Sheehy, Ann M.** and Mark S. Schlissel. (1999). Overexpression of RelA causes G1 arrest and apoptosis in a pro-B cell line. *JBC* 274: 8707-8716.

Simon, James, H.M., **Sheehy, Ann M.**, Carpenter, Elise A., Fouchier, Ron A.M., and Michael H. Malim. (1999). Mutational Analysis of the Human Immunodeficiency Virus Type-1 Vif Protein. *J. Virol.* 73(4): 2675-2681.

