MATTHEW WAWERSIK, Ph.D.

Assistant Professor, Biology (College of William & Mary)

Education:

Post-doctoral Fellow (2001-05)	**The Johns Hopkins University,** Baltimore, MD
Ph.D., Biochemistry (2001)	**The Johns Hopkins University School of Medicine,** Baltimore, MD
B.S., Biochemistry (1995)	**Colorado State University,** Ft. Collins, CO

Research Experience:

August 2001 – present	**Postdoctoral Fellow:** The Johns Hopkins University – Baltimore, MD "Genetic analysis of signal transduction pathways regulating germ cell development"
1995 – 2001	**Graduate Student:** The Johns Hopkins University School of Medicine – Baltimore, MD "Towards understanding function of the type I keratin K16 during skin wound healing"
1993 - 1995	**Undergraduate Research:** Colorado State University - Ft. Collins, CO "Screening for genes involved in DNA double-strand break repair on human chromosome 11"
summer 1994	**Research Intern:** Sandia National Laboratory **-** Albuquerque, NM " Development of a LASER therapy for removal of damaged skin from burn victims"
1992 – 1993	**Undergraduate Research:** Colorado State University - Ft. Collins, CO "Assessment of nutrient uptake efficiency in the digestive system of desert tortoises"

Teaching Experience:

2002-2003	**Undergraduate research project mentor:** Johns Hopkins University **–** Baltimore, MD
Winter/ Spring 2001	**National Sciences Foundation Graduate Student Teaching Fellow - Biology & Genetics Instructor:** Dunbar High School - Baltimore, MD
March 2000	**Guest Speaker:** Dunbar High School – Baltimore, MD "Mouse genetics: A tool for studying skin disease"
Fall 1999	**Technical advisor:** The Living Classrooms Foundation - Baltimore, MD
May 1999	**Guest Speaker:** St. Paul's School for Boys **–** Baltimore, MD "A biologist's life: Studying cells, their skeletons and skin disease"
Spring 1999	**Science project coach:** St. Paul's School for Boys - Baltimore, MD

Publications:

Wawersik, M., Milutinovich, A., Williams, B., Matunis, E., Van Doren, M., (2005) Somatic control over male-specific germ cell behavior is regulated by JAK/STAT signaling. *Nature, Vol. 436, pp563-67.*

Wawersik, M., and Van Doren, M., (2005) *Nanos* is required for maintenance of the spectrosome, a germ cell-specific organelle. *Developmental Dynamics, Vol. 234, pp 22-7.*

Mazzalupo, S., **Wawersik, M**., Coulombe, P. (2002) An *ex vivo* assay to assess the potential of skin keratinocytes for wound epithelialization. *J. Inv. Derm.* 118(5), 866-70.

Coulombe, P.A., Ma L., Yamada, S., **Wawersik, M**. (2001) Intermediate Filaments At-A-Glance. *J. Cell Sci.* 114, 4345-4347.

Wawersik, M., Mazzalupo, S., Nguyen, D., and Coulombe, P.A. (2001) Increased levels of keratin 16 alter the epithelialization potential of mouse skin keratinocytes *in vivo* and *ex vivo*. *Mol. Biol. Cell.* 12: 3438-3450.

Wawersik, M., and Coulombe, P.A. (2000) Forced expression of keratin 16 alters the adhesion, differentiation and migration of mouse skin keratinocytes. *Mol. Biol. Cell.* 11: 3315-3327.

Wawersik, M., Paladini, R.D., Noensie, E., Coulombe, P.A. (1997) A proline residue in the alpha-helical rod domain of type I keratin 16 destabilizes keratin heterotetramers. *J. Biol. Chem.* 272: 32557-65.

Awards and Honors:

Ruth L. Kirschstein National Research Service Award – Individual postdoctoral fellowship
National Science Foundation Graduate Student Teaching Fellowship (Dunbar High School)
Graduated *magna cum laude* and with honors merits from Colorado State University
Phi Beta Kappa
U.S. Department of Energy Outstanding Student Summer Research Internship (Sandia National Laboratory)
Colorado State University Academic Achievement Award and Scholarship
U.S. Department of Energy Honors Research Institute Participant (Pacific Northwest National Laboratory)