

CURRICULUM VITAE

Miriam E. Bucheli

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Education:

2002 – present Post-doctoral Fellow - Harvard Medical School
1996 – 2002 Ph.D. - University of Medicine and Dentistry of New Jersey – Rutgers University,
Graduate School of Biomedical Sciences – Piscataway
Molecular Genetics and Microbiology
1995 – 1996 Indiana University – Bloomington
Biological Anthropology
1992 – 1995 B.S. - Montclair State University – New Jersey
Majors: Biology and Anthropology
1983 – 1985 Universidad Technologica Equinoccial – Quito, Ecuador

Research Experience:

2003 – present Post-doctoral Fellow – Dr. Stephen Buratowski, Harvard Medical School
2002 – 2003 Post-doctoral Fellow – Dr. Fred Winston, Harvard Medical School
1997 – 2002 Research Fellow – Dr. Kevin Sweder – Rutgers University
1993 – 1995 Clinical Laboratory Assistant, L.E.M.S.I.P. (Laboratory for Experimental Medicine
and Surgery in Primates), New York University

Teaching:

2005 – present Consultant – Derek Bok Center, Harvard University
2005 Teaching Fellow – BS50 Genetics and Genomics - Harvard University – Cambridge,
Boston
2004 Tutor – Introduction to Biology - Simmons College – Fenway, Boston
2000 – present Experienced mentoring undergraduate and graduate students in the lab

Awards and Fellowships:

2005 **Derek Bok Center Research Award** – Harvard University
2005 **Travel Scholarship** – Keystone Symposia
2003 – 2006 **Post-doctoral Fellowship** – American Cancer Society

- 2003 – 2006 **Post-doctoral Individual National Research Service Award** – National Institutes of Health Grant F32 GM 67480-01 (awarded but declined)
- 2002 – 2003 **Post-doctoral Fellowship** – UNCF/Pfizer
- 1999 – 2002 **Pre-doctoral Individual National Research Service Award** – National Institutes of Health Grant 1F31CA83357-02
- 1996 – 1999 **Pre-doctoral Minority Fellowship** – National Science Foundation
- 1996 **Summer Mentorship** – National Science Foundation
- 1995 **Hadley Research Award** – Hadley Fund (Alumni Association) – Montclair State University

Honors:

- 2001 **Anthony Lu Best Paper Award** – for the publication entitled “The defect in transcription-coupled repair displayed by a *Saccharomyces cerevisiae rad26* mutant is dependent on carbon source and is not associated with a lack of transcription.” *Genetics* 158: 989-997.
- 1994 – 1995 **Honors Program in Biology** – Montclair State University
- 1995 *magna cum laude* – Montclair State University

Extramural Presentations:

- Jan 2006 **M.E. Bucheli.** Npl3 is Competed by Hrp1 and Rna15 in a Step Preceding Termination. Invited seminar - Department of Biology, Bowdoin College, MN.
- Oct 2005 **M.E. Bucheli.** Npl3 Regulates Anti-termination in *GAL10* transcription. Talk at Data Club - Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School.
- Oct 2005 **M.E. Bucheli.** Npl3 Competes with Cleavage/Termination Factors in mRNA 3'end Formation and Termination. Invited seminar - Department of Biology at Montclair State University, NJ.
- Aug 2005 **M.E. Bucheli, C. Kaplan and S. Buratowski.** Npl3 Antagonizes Hrp1 and Rna15 in mRNA 3'end Formation. Short talk at the Eukaryotic mRNA Processing Research Conference in Cold Spring Harbor, NY.
- Mar 2005 **M.E. Bucheli and S. Buratowski.** Npl3 Antagonizes Transcription Termination. New England Science Symposium – Harvard Medical School, Boston, MA.
- Oct 2000 **M.E. Bucheli.** The Role of Rad26 in Transcription-Coupled Repair. First Annual Minority Research Symposium, UMDNJ-GSBS and Rutgers University, NJ
- Apr 1995 **M.E. Bucheli.** DNA Fingerprinting in Chimpanzees. Short talk - New Jersey Academy of Science 40th Annual Meeting, NJ

Publications:

- Bucheli, M.,** and Buratowski, S. (2005) “NPL3 is an Antagonist of mRNA 3’end Formation by RNA Polymerase II” *EMBO Journal* 24:2150-2160.
- Morris, J., Pantages, E., Vaughan, C., Torello, T., **Bucheli, M.,** Lohman, D., Jehn, T., Lue, R. (2005) “A Student’s Guide to Writing in the Sciences - *Research Proposals/Grant Proposals*”. HHMI/Harvard University.
- Bucheli, M.,** and Sweder, K.S. (2004) “In UV-irradiated *Saccharomyces cerevisiae* Overexpression of Swi2/Snf2 Family Member Rad26 Increases Transcription-coupled Repair and Repair of the Non-transcribed strand.” *Molecular Microbiology*. 52:1653-1663.
- Bucheli, M.,** Lommel, L., and Sweder, K.S. (2001) “The Defect in Transcription-coupled Repair Displayed in *S. cerevisiae* by a *rad26* Mutant is Dependent on Carbon Source and Is Not Associated with a Lack of Transcription.” *Genetics*. 158:989-997.
- Lommel, L., **Bucheli, M.,** and Sweder K.S. (2000) “Transcription-coupled Repair in Yeast Is Independent from Ubiquitylation of RNA pol II.” *Proc. Natl. Acad. Sci. USA*. 97:9088-9092.

Professional Societies:

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| 2004 – present | Harvard Medical School Postdoctoral Association (Member of the Governing Board) |
| 2004 – present | National Postdoctoral Association |
| 2004 – present | Society for Advancement of Chicanos and Native Americans in Science (SACNAS) |
| 1997 – 2002 | Molecular Biosciences Minority Graduate Student Association, UMDNJ – Rutgers
(Founder and co-President) |
| 1994 – 1995 | Anthropology Club, Montclair State University (President) |

References:

Dr. Steve Buratowski (Post-doctoral Advisor)
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Dr. Kevin Sweder (Thesis Advisor)
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Additional References:

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