

# Curriculum Vitae

## Caitlin Valentin

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### **Education**

B.S.	2003-2006	Chemistry/Biochemistry	Eastern Washington University
M.S.	2006-2008	Molecular Biology	Eastern Washington University

### **Professional Work Experience**

2006-2008	Research Graduate Student at Eastern Washington University
2005-2007	Teaching Assistant: General Chemistry General Chemistry for Health Science Majors Quantitative Analysis
2006	Science Olympiad-Eastern Washington University
2005-2006	Tutoring for Eastern Washington University Chemistry Department
2005-2006	Vice-President-American Chemical Society, Eastern Washington University Chapter

### **Research Interests and Activities at Eastern Washington University**

#### **Interests**

- Developing molecular technologies
- Research to improve forensic science
- Molecular technologies useful for endangered species preservation
- Reproductive endocrinology research

## **Activities**

Developed a PCR based bird sexing assay  
Prepared DNA from a single down feather for bird sexing  
Developed a caprine sexing assay based on a bovine sexing assay  
Investigated stability of molecular reagents  
Rapid extraction methods for isolation of DNA from bone  
Fluorometry  
Spectroscopy  
PCR technology  
Gel electrophoresis  
Dialysis

## **Presentations**

Valentin, C., West, R., and Herr, C. (2008). The enhancement of the sensitivity of a PCR-based avian sex determination assay. *Int'l Embryo Transfer Society*. (Denver, CO)

West, R., Valentin, C., and Herr, C. (2008) Still glowing after all these years: Storage life of a complete bovine sexing PCR mix. *Int'l Embryo Transfer Society*. (Denver, CO)

Herr, C., Valentin, C., and Greeson, K. (2008) Suitability of bovine sexing primers for sex determination of caprine cells. *Int'l Embryo Transfer Society*. (Denver, CO)

Valentin, C., and Herr, C. (2007) DNA from bones and feathers. *Eastern Washington University Student Research and Creative Works*. (Cheney, WA)

## **Publications**

### **Refereed Publications**

Valentin, C. (2008). *An improved method for DNA extraction from bone and bird feathers*. M.S. Thesis, Eastern Washington University, Cheney, WA.

Valentin, C., West, R., and Herr, C. (2008). The enhancement of the sensitivity of a PCR-based avian sex determination assay. *Journal of Reproduction Fertility and Development*. **20(1)**, 215.

West, R., Valentin, C., and Herr, C. (2008) Still glowing after all these years: Storage life of a complete bovine sexing PCR mix. *Journal of Reproduction Fertility and Development*. **20(1)**, 214-215.

Herr, C., Valentin, C., and Greeson, K. (2008) Suitability of bovine sexing primers for sex determination of caprine cells. *Journal of Reproduction Fertility and Development*. **20(1)**, 212.

### **Awards**

2006 Eastern Washington University Graduate Mini-Grant  
(\$500)

2008 Eastern Washington University Graduate Student In-Aide Travel Grant  
(\$300)

2008 Microsoft Matching Gifts Foundation  
(\$1600)

### **Professional Memberships**

American Chemical Society  
International Embryo Transfer Society