

# Christopher Drummond

Center for Research on Invasive Species and Small Populations  
Department of Fish and Wildlife Resources  
University of Idaho  
P.O. Box 441141  
Moscow, ID 83844-1141  
(208) 885-7381  
cdrummon@uidaho.edu

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## EDUCATION

### **Ph.D. Biology** (2000 – 2006)

Georgetown University, Washington, DC

### **B.S. Biology *Magna Cum Laude*** (1998 – 2000)

University of Maryland, College Park, MD

### **A.B. Semiotics *Departmental Honors*** (1989 – 1993)

Brown University, Providence, RI

## RESEARCH

My research is directed toward understanding the interacting roles of geography and mating systems in shaping patterns of genetic variation among species, populations, and individuals. While my work has spanned a range of organisms, I am especially interested in the population genetics and molecular systematics of plants, with applications for the conservation and management of species.

### **Postdoctoral Research** (2006 – present)

Center for Research in Invasive Species and Small Populations  
Department of Fish and Wildlife Resources, University of Idaho

Currently investigating the landscape genetics and regional phylogeography of northern Rocky Mountain mesic forest species, including the Rocky Mountain tailed frog (*Ascaphus montanus*, Ascaphidae) and rough-skinned newt (*Taricha granulosa*, Salamandridae), based on mitochondrial DNA and nuclear microsatellite DNA. Advisors: Jack Sullivan, Lisette Waits

### **Doctoral Research** (2000 – 2006)

Department of Biology, Georgetown University

Studied the population genetics and molecular systematics of lupines (*Lupinus*, Leguminosae) based on chloroplast DNA and nuclear microsatellite DNA. Advisors: Matthew Hamilton, Martha Weiss

### **Undergraduate Research** (1998 – 2000)

Department of Cell Biology and Molecular Genetics, University of Maryland

Studied the molecular systematics of conjugating green algae (*Spirogyra* and *Sirogonium*, Zygnematophyceae) based on chloroplast DNA. Advisor: Charles Delwiche

## PUBLICATIONS

- Drummond CS, and Hamilton MB (2007) Hierarchical components of genetic variation at a species boundary: population structure in two sympatric varieties of *Lupinus microcarpus* (Leguminosae). *Molecular Ecology* 16: 753-769.
- Drummond CS, and Hamilton MB (2005) Isolation and characterization of nuclear microsatellite loci in *Lupinus* group *Microcarpi* (Leguminosae). *Molecular Ecology Notes* 5: 510-513.
- Drummond CS, Hall J, Karol KG, McCourt RM, and Delwiche CF (2005) Phylogeny of *Spirogyra* and *Sirogonium* (Zygnematophyceae) based on *rbcL* sequence data. *Journal of Phycology* 41: 1055-1064.

## MANUSCRIPTS IN PREPARATION

- Drummond CS. Recent adaptive radiations of western New World *Lupinus* (Leguminosae) and the derived evolution of iteroparity in montane environments. In preparation for *Systematic Biology*.
- Drummond CS, Hamilton MB. Partial selfing in structured populations: mating system of the self-compatible annual plant *Lupinus horizontalis* (Leguminosae). In preparation for *Heredity*.
- Drummond CS, Weiss M. Evolution of floral color change in *Lupinus* (Leguminosae): insights from population genetics and comparative phylogenetics. In preparation for *New Phytologist*.
- Eastwood R, Drummond CS, Hughes CE. Systematics and infrageneric revision of *Lupinus* (Leguminosae) based on combined nuclear and chloroplast DNA data. In preparation for *Taxon*.

## CONFERENCE PRESENTATIONS

- Hierarchical genetic variation at a species boundary in *Lupinus microcarpus* (Leguminosae): implications for the genetic delimitation of species. Contributed paper, Society for the Study of Evolution (2006) Stony Brook, NY.
- Outcrossing rates and population structure in *Lupinus microcarpus* (Leguminosae). Contributed paper, Botanical Society of America (2005) Austin, TX.
- Phylogeny of *Lupinus* (Leguminosae) based on non-coding chloroplast DNA. Contributed paper, Botanical Society of America (2005) Austin, TX.
- Phylogeny of *Lupinus* (Leguminosae) based on non-coding chloroplast DNA. Recent topics poster, Botanical Society of America (2004) Snowbird, UT.
- Phylogenetic and population perspectives on the evolution of color change in *Lupinus* (Leguminosae). Contributed paper, Northeast Ecology and Evolution Conference (2004) Storrs, CT.

## INVITED TALKS

- Parallel adaptive radiations of *Lupinus* in the western New World: derived evolution of iteroparity and invasion of high elevation habitats. Field Museum of Natural History (scheduled 2007) Chicago, IL.
- Regional phylogeography and landscape genetics of the northern Rocky Mountain mesic forest ecosystem. Forest and Rangeland Management Working Group, University of Idaho (2006) Moscow, ID.
- Small populations and invasive species: *Lupinus microcarpus*, *Ascapus montanus*, *Taricha granulosa*. Center for Research on Invasive Species and Small Populations, Undergraduate Summer Intern Program, University of Idaho (2006) Moscow, ID.
- Interpreting hierarchical genetic variation in the delimitation of species: a case study using *Lupinus microcarpus*. Conservation Genetics for Natural Resource Managers Workshop, University of Idaho (2006) Moscow, ID.

**INVITED TALKS** (continued)

Mating systems and floral display in *Lupinus* (Leguminosae). Botanical Society of Washington, Smithsonian Institution (2005) Washington, DC.

**FELLOWSHIPS, GRANTS, and AWARDS****Postdoctoral Fellowship** (2006 – present)

Center for Research on Invasive Species and Small Populations, University of Idaho  
Stipend for two years of postdoctoral research; \$4000 for research expenses.

**Field Research Grant** (2004)

California Native Plant Society  
\$500 for travel to field sites in California.

**Field Research Grant** (2003)

Explorers Club Washington Group Exploration and Field Research Program; A. Harvey and Phyllis K. Schreter Exploration Fund of Baltimore  
\$1000 for travel to field sites in California.

**Graduate Research Fellowship** (2001 – 2005)

National Science Foundation  
Stipend for three years of doctoral research; \$15,000 for research expenses from the Georgetown University Graduate School.

**University Fellowship** (2000 – 2005)

Georgetown University  
Stipend for four years of doctoral research.

**REU Supplemental Award** (2000)

National Science Foundation  
Stipend for one year of undergraduate research, \$2000 for research expenses.

**Maryland House of Delegates Scholarship** (1998)

University of Maryland  
Stipend for undergraduate tuition.

**TEACHING & PROFESSIONAL EXPERIENCE****Graduate Teaching Fellow** (2001 – 2005)

Department of Biology, Georgetown University

Taught laboratory and discussion sections for undergraduate and graduate courses:

- Biology 501, Graduate Foundations in Ecology and Evolution
- Biology 251, Evolutionary Processes
- Biology 152, Genetics
- Biology 390, Molecular Biology

**Field Instructor and Program Manager** (1995 – 1998)

Chesapeake Bay Foundation, Annapolis, MD

Taught field programs on the estuarine ecology of the Chesapeake Bay for students from elementary to high school levels. Conducted one-week teacher recertification programs for graduate credit. Used workboats, canoes, and remote island education centers to provide students and teachers with field-based learning experiences.

## TEACHING & PROFESSIONAL EXPERIENCE (continued)

### **Project Director** (1995)

Save Our Streams, Glen Burnie, MD

Coordinated staff and adult volunteers in the design and implementation of stream restoration projects, including macroinvertebrate surveys and public education workshops.

### **Education Intern** (1994)

Pickering Creek Environmental Education Center, Easton, MD

Taught field programs about estuarine ecology and sustainable agriculture for elementary students at a working farm.

### **Administrative Associate** (1993 – 1994)

Options, Providence, RI

Designed and edited program materials for a pilot project funded by the National Endowment for the Humanities, in collaboration with the Center for Foreign Policy Development at Brown University, to develop public reading and discussion programs on international relations and national security.

### **Writing Instructor** (1991 – 1993)

Rose Writing Fellows Program, Brown University

Taught writing for undergraduate and graduate students.

## WORKSHOPS ATTENDED

### **Conservation Genetics for Natural Resource Managers** (2006)

University of Idaho, Moscow, ID

Instructor: Lisette Waits

### **Bodega Bay Applied Phylogenetics Workshop** (2002)

University of California, Davis, CA

Instructors: Michael Sanderson, Bradley Schaeffer, Peter Wainwright

## ACADEMIC SERVICE

### **American Journal of Botany** (2006 – present)

Peer review of manuscripts submitted for publication.

### **U.S. Fish & Wildlife Service** (2006)

Consulting reviewer for draft genetic study of *Lepidium papilliferum* (candidate endangered species).

### **Undergraduate Thesis Review Panel** (2006)

Ecology and Conservation Biology Program, College of Natural Resources, University of Idaho

### **Graduate Associate** (2002)

Center for New Designs in Learning and Scholarship, Georgetown University

### **Graduate Student Representative** (2002)

Faculty Meeting, Department of Biology, Georgetown University

### **Graduate Student Representative** (2001)

Graduate Studies Committee, Department of Biology, Georgetown University

## **PROFESSIONAL MEMBERSHIPS**

American Association for the Advancement of Science (2005 – present)

Botanical Society of America (2003 – present)

Genetics Society of America (2006 – present)

Society for the Study of Evolution (2005 – present)

Society of Systematic Biologists (2006 – present)

## **REFERENCES**

### **Dr. Jack Sullivan**

Department of Biological Sciences

University of Idaho

(208) 885-9049

jsullivan@uidaho.edu

### **Dr. Lisette Waits**

Department of Fish and Wildlife Resources

University of Idaho

(208) 885-7823

lwaits@uidaho.edu

### **Dr. Matthew Hamilton**

Department of Biology

Georgetown University

(202) 687-5924

hamiltm1@georgetown.edu

### **Dr. Martha Weiss**

Department of Biology

Georgetown University

(202) 687-1822

weissm@georgetown.edu

### **Dr. Charles Delwiche**

Department of Cell Biology and Molecular Genetics

University of Maryland

(301) 405-8286

delwiche@umd.edu