

Daniel J. McGoldrick Ph.D.

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Objective:

Applied computational biologist and statistical geneticist seeking to complement a creative faculty community with publications and collaborative research with emphasis on integrated research - uniting molecular technologies, computational biology, and genetics. Motivated to educate and inspire a new generation of students in biology.

Post-doctoral Experience:

2002-2007	Research Associate, Computational Pharmacology	UCHSC, Aurora, Co.
	<ul style="list-style-type: none">- Genomic data federation and ontology mapping- Software development and statistical analysis- Downstream expression array analysis	
2001-2002	Evolutionary Genomics LLC	Aurora, Co.
	<ul style="list-style-type: none">- High throughput bioinformatic Analysis- Ka/Ks Analysis for selected genes in commercial grains- Phenotypic association analysis for adaptive genes- Software development and statistical analysis	
1998-2001	CSIRO Center for Research on Introduced Marine Pests	Hobart, Tas, Australia
	<ul style="list-style-type: none">- Inhibitory dsRNA in marine invertebrates- Transgenesis with lipofection and electroporation- cDNA libraries and high throughput promoter analysis- Constructs for Tet-on/Tet-off control of double stranded RNAi	
1996-1998	National Cooperative Research Consortium for Aquaculture	Hobart, Tas, Australia
	<ul style="list-style-type: none">- Quantitative genetics of commercial traits- Production of pedigreed lines for aquaculture- Development of AFLP genotyping for Pacific oysters- Chromosomal linkage and QTL mapping- Collaboration with industry, academic and government agencies	

Education:

1990-1997	University of California, Davis	Ph.D. Genetics
Doctoral student in the genetics graduate group with emphasis in cytogenetics, population genetics, molecular genetics and mathematical statistics		
1987-1990	St. Mary's College of California	B.Sc. Biology
Dean's research award winner		
1983-1986	University of California, Berkeley	Engineering
Three years of education with course work completed in differential and integral calculus, linear algebra, vector calculus, and physics (transferred)		

References

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