

*Daphnia* Genomics Consortium Meeting 2006  
January 17 through January 19, 2006  
Indiana University, Bloomington

All meeting rooms and social venues are in the Indiana Memorial Union unless otherwise specified.

***Tuesday, January 17, 2006***

Noon through 5:00 p.m. IMU East Lounge	Registration
Noon through 3:45 p.m. IMU Frangipani Room	Poster set-up, IMU Frangipani Room
4:00 p.m. – 4:15 p.m. IMU Frangipani Room	Opening Remarks, Peter Cherbas
4:15 p.m. – 4:50 p.m.	<b>Keynote:</b> <i>Daphnia</i> as a genomic model organism. -- John Colbourne
4:50 p.m. – 5:25 p.m.	<b>Keynote:</b> <i>Daphnia</i> as a model organism: The ecological domain. -- Winfried Lampert
5:25 p.m. – 6:00 p.m.	<b>Keynote:</b> <i>Daphnia</i> as a model toxicogenomic system. -- Joshua Hamilton
6:00 p.m. – 7:30 p.m. IMU Women's Faculty Club	Opening Reception

***Wednesday, January 18, 2006***

8:30 a.m. – 9:00 a.m. IMU Frangipani Room	Continental Breakfast
9:00 a.m. through noon IMU East Lounge	Registration Continued
9:00 a.m. – 9:25 a.m. IMU Frangipani Room	<b>Keynote:</b> Application of the <i>Daphnia</i> genome to specific ecological questions. -- Stanley Dodson

**Wednesday, January 18, 2006**

9:25 a.m. – 10:00 a.m.

**Keynote:** The sequence of the *Daphnia* genome.  
-- Jeffrey Boore

10:00 a.m. – 10:30 a.m.

Refreshments

10:30 a.m. – 11:45 a.m.

**Contributed Talks 1:** Genomic Tools for *Daphnia*. Kelley Thomas (Chair)

10:30 a.m. – 10:50 a.m.

Dp Genome preview at wFleaBase  
-- Don Gilbert

10:50 a.m. – 11:10 a.m.

Protein mass spectrometry as a tool to study biological systems  
-- Jeroen Krijgsveld

11:10 a.m. – 11:30 a.m.

Massively Parallel Analysis of Gene Expression (mPAGE) in *Daphnia* using Sequencing-By-Synthesis (SBS)  
-- Darren J. Bauer

11:30 a.m. – 11:45 a.m.

Question Period

11:45 a.m. – 2:00 p.m.

Lunch, on your own

2:00 p.m. – 3:15 p.m.

**Contributed Talks 2:**

IMU Frangipani Room

Developmental genetics and genomics. Justen Andrews (chair)

2:00 p.m. – 2:20 p.m.

Sex-biased gene expression in *Daphnia pulex*  
-- Brian Eads

2:20 p.m. – 2:40 p.m.

Pattern formation in *Daphnia pulex*  
-- Francis Poulin

2:40 p.m. – 3:00 p.m.

Molecular mechanism of DISTAL-LESS induction and formation of multiply directed proximodistal axes in developing *Daphnia* thoracic legs  
-- Yasuhiro Shiga

3:00 p.m. – 3:15 p.m.

Question Period

3:15 p.m. – 3:30 p.m.

Refreshments

3:30 p.m. – 4:45 p.m.

Panel Discussion

5:30 p.m. – 7:30 p.m.

Dinner Reception

IU Mathers Museum

8:00 p.m. – 10:00 p.m.

Dessert and Poster Session

IMU Frangipani Room

**Thursday, January 19, 2006**

8:30 a.m. – 9:00 a.m.  
IMU Frangipani Room

Continental Breakfast

9:00 a.m. – 10:15 a.m.

**Contributed Talks 3:** Genetics and Molecular Evolution. Michael Lynch (Chair)

9:00 a.m. – 9:20 a.m. A microsatellite-based genetic linkage map of the waterflea, *Daphnia pulex*: On the prospect of crustacean genomics  
-- Melania E.A. Cristescu

9:20 a.m. – 9:40 a.m. Production of heritable variation by ameiotic recombination in asexual lineages  
-- Angela R. Omilian

9:40 a.m. – 10:00 a.m. Viral transgenesis of embryonic cell cultures from the freshwater microcrustacean *Daphnia*  
-- Sharon Isern

10:00 a.m. – 10:15 a.m. Question Period

10:15 a.m. – 10:30 a.m.

Refreshments

10:30 a.m. – 11:45 a.m.

**Contributed Talks 4:** Ecological and Evolutionary Genomics. Michael Pfrender (Chair)

10:30 a.m. – 10:50 a.m. Transitions to asexuality result in excess amino-acid substitutions  
-- Susanne Paland

10:50 a.m. – 11:10 a.m. *Daphnia*omics and the innate immune system  
-- Tom Little

11:10 a.m. – 11:30 a.m. Mapping and QTL project for *D. magna*: Constructing a framework for genomics  
-- Bastiaan Jansen

11:30 a.m. – 11:45 a.m. Question Period

11:45 a.m. – 2:00 p.m.

Lunch on your own

2:00 p.m. – 3:20 p.m.  
IMU Frangipani Room

**Contributed Talks 5:** Toxicological Genomics. Joseph Shaw (Chair)

2:00 p.m. – 2:20 p.m. Development of *Daphnia magna* DNA microarray for the evaluation of toxicity of environmental chemicals  
-- Hajime Watanabe

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**Thursday, January 19, 2006**

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| 2:20 p.m. – 2:40 p.m. | <i>Daphnia magna</i> ecotoxicogenomics reveals unique expression profiles and mechanistic insights for metals and ordnance related chemicals<br>-- Helen C. Poynton |
| 2:40 p.m. – 3:00 p.m. | Metal tolerance in <i>Daphnia pulex</i><br>-- Joseph R. Shaw  |
| 3:00 p.m. – 3:20 p.m. | The impact of emerging contaminants (pharmaceuticals, nanoparticles) on <i>Daphnia</i> gene expression, reproduction, survival and behavior<br>-- Rebecca Klaper    |
| 3:20 p.m. – 3:30 p.m. | Refreshments  |
| 3:30 p.m. – 4:45 p.m. | Panel Discussion  |
| 4:45 p.m. – 5:00 p.m. | Closing Remarks   |