

Editorial: 2009 in review

Year 2009 was a banner year for *Evolutionary Applications*. Along with publishing four full issues (40 papers), the journal was fully indexed in ISI Web of Science, and was awarded the Association of Learned and Professional Society Publishers (ALPSP) award for Best New Journal for 2009. We received 84 submissions, an over 20% increase from 2008. We published two special issues: *Evolutionary Medicine*, 2(1); and *Towards Darwinian Fisheries Management*, 2(3), and had an article featured as a *Must Read* in the Faculty of 1000 (Colautti et al. 2009). Although *Evolutionary Applications* was launched in 2008, papers published in the first 2 years have already been cited 370 times in over 90 different journals for an average citation per item of 3.75. Watch for our first impact factor which will be issued sometimes during 2010.

In store for 2010

To accommodate for the increase in submissions, we will be publishing six issues in 2010. Four of these issues will contain regular articles. As you can see, 3(2) is a special issue on Biological Invasions, edited by Carol Lee, Bob Holt and Kristina Schierenbeck. Issue 3(5) will be a special issue on Evolutionary Change in Agro-Ecosystems, edited by Pete Thrall and Jim Bever.

This year we will also be finalizing our data archiving policy, which will be implemented in 2011. Along with most of the main ecology and evolution journals, we will

be encouraging authors to deposit the data used to generate the main results of their papers into data repositories such as Dryad, the database developed by NSECENT and currently funded by the National Science Foundation. Authors interested in the benefits of data archiving can learn more in Whitlock et al. (2010).

Fully accessible

Evolutionary Applications will continue to freely available to all in 2010, and will have a strong presence at many of the relevant meetings and conferences worldwide. We plan to hold our yearly editorial meeting at SSE/ASN/SSB in Portland, OR (25–29 June 2010). As always, we welcome comments and suggestions from the community either by e-mail (evolappl@zoology.ubc.ca), or in person.

Submit your best papers in Evolutionary Applications!

As you can see in Table 1, *Evolutionary Applications* publishes papers that use principles from evolutionary biology to address topics ranging from disease biology to human-mediated selection to climate change. We are very flexible in the types of papers that we consider, provided that the application of evolutionary biology to practical questions is clear. Please contact the journal office if you are not sure whether your paper is appropriate for the journal. We particularly encourage submissions of review

Table 1. Topics covered in *Evolutionary Applications* in 2009.

Topic	Citation
Climate change	Franks and Weis (2009)
Conservation	Dunlop et al. (2009); Griffiths et al. (2009); Rossi et al. (2009); Underwood (2009)
Crop-wild interactions	Campbell et al. (2009); Normandeau et al. (2009)
Disease biology	Crespi et al. (2009); Fairlie-Clarke et al. (2009); Heyer and Quintana-Murci (2009); Kopp and Medzhitov (2009); Pearce et al. (2009); Pepper et al. (2009); Sadd and Schmid-Hempel (2009); Varki et al. (2009)
Drug resistance	Koella et al. (2009); Pongtavornpinyo et al. (2009); Read and Huijben (2009)
Genetically modified organisms	Huang et al. (2009); Merimans et al. (2009)
Host-parasite biology & virulence	Brown et al. (2009); Joseph et al. (2009); Reece et al. (2009); Zwart et al. (2009)
Human-mediated selection	Arlinghaus et al. (2009); Conover and Baumann (2009); Cooke et al. (2009); Enberg et al. (2009); Hutchings (2009); Jørgensen et al. (2009); Kendall et al. (2009); Kuparinen et al. (2009); Nussle et al. (2009); Okamoto et al. (2009); Perez-Rodriguez et al. (2009); Redpath et al. (2009); Sharpe and Hendry (2009); Wang and Hook (2009)
Invasion biology	Colautti et al. (2009); Hodgins et al. (2009)

papers on any topic falling within the scope of the journal. Potential contributors are invited to contact Louis Bernatchez to discuss the relevance of the review prior to submission.

Finally, we wish to sincerely thank our associate editors, members of our editorial board as well as all referees that have been working hard to make 2009 a highly successful year for *Evolutionary Applications*.

Michelle Tseng
Managing Editor
University of British
Columbia, Vancouver,
Canada

Louis Bernatchez
Editor-in-Chief
Laval University,
Quebec, Canada

Literature cited

- Arlinghaus, R., S. Matsumura, and U. Dieckmann. 2009. Quantifying selection differentials caused by recreational fishing: development of modeling framework and application to reproductive investment in pike (*Esox lucius*). *Evolutionary Applications* 2:335–355.
- Brown, S. P., R. F. Inglis, and F. Taddei. 2009. Evolutionary ecology of microbial wars: within-host competition and (incidental) virulence. *Evolutionary Applications* 2:32–39.
- Campbell, L. G., A. A. Snow, P. M. Sweeney, and J. M. Ketner. 2009. Rapid evolution in crop-weed hybrids under artificial selection for divergent life histories. *Evolutionary Applications* 2:172–186.
- Colautti, R. I., J. L. Maron, and S. C. H. Barrett. 2009. Common garden comparisons of native and introduced plant populations: latitudinal clines can obscure evolutionary inferences. *Evolutionary Applications* 2:187–199.
- Conover, D. O., and H. Baumann. 2009. The role of experiments in understanding fishery-induced evolution. *Evolutionary Applications* 2:276–290.
- Cooke, S. J., M. R. Donaldson, S. G. Hinch, G. T. Crossin, D. A. Patterson, K. C. Hanson, K. K. English *et al.* 2009. Is fishing selective for physiological and energetic characteristics in migratory adult sockeye salmon? *Evolutionary Applications* 2:299–311.
- Crespi, B., K. Summers, and S. Dorus. 2009. Genomic sister-disorders of neurodevelopment: an evolutionary approach. *Evolutionary Applications* 2:81–100.
- Day, T., and S. C. Stearns. 2009. Editorial: evolutionary medicine special issue. *Evolutionary Applications* 2:7–10.
- Dunlop, E. S., M. L. Baskett, M. Heino, and U. Dieckmann. 2009. Propensity of marine reserves to reduce the evolutionary effects of fishing in a migratory species. *Evolutionary Applications* 2:371–393.
- Enberg, K., C. Jorgensen, E. S. Dunlop, M. Heino, and U. Dieckmann. 2009. Implications of fisheries-induced evolution for stock rebuilding and recovery. *Evolutionary Applications* 2:394–414.
- Fairlie-Clarke, K. J., D. M. Shuker, and A. L. Graham. 2009. Why do adaptive immune responses cross-react? *Evolutionary Applications* 2:122–131.
- Franks, S. J., and A. E. Weis. 2009. Climate change alters reproductive isolation and potential gene flow in an annual plant. *Evolutionary Applications* 2:481–488.
- Griffiths, A. M., I. Koizumi, D. Bright, and J. R. Stevens. 2009. A case of isolation by distance and short-term temporal stability of population structure in brown trout (*Salmo trutta*) within the River Dart, southwest England. *Evolutionary Applications* 2:537–554.
- Heyer, E., and L. Quintana-Murci. 2009. Evolutionary genetics as a tool to target genes involved in phenotypes of medical relevance. *Evolutionary Applications* 2:71–80.
- Hodgins, K. A., L. Rieseberg, and S. P. Otto. 2009. Genetic control of invasive plants species using selfish genetic elements. *Evolutionary Applications* 2:555–569.
- Huang, Y. X., A. L. Lloyd, M. Legros, and F. Gould. 2009. Gene-drive in age-structured insect populations. *Evolutionary Applications* 2:143–159.
- Hutchings, J. A.. 2009. Avoidance of fisheries-induced evolution: management implications for catch selectivity and limit reference points. *Evolutionary Applications* 2:324–334.
- Jorgensen, C., B. Ernande, and O. Fiksen. 2009. Size-selective fishing gear and life history evolution in the Northeast Arctic cod. *Evolutionary Applications* 2:356–370.
- Joseph, S. B., K. A. Hanley, L. Chao, and C. L. Burch. 2009. Coinfection rates in phi 6 bacteriophage are enhanced by virus-induced changes in host cells. *Evolutionary Applications* 2:24–31.
- Kendall, N. W., J. J. Hard, and T. P. Quinn. 2009. Quantifying six decades of fishery selection for size and age at maturity in sockeye salmon. *Evolutionary Applications* 2:523–536.
- Koella, J. C., P. A. Lynch, M. B. Thomas, and A. F. Read. 2009. Towards evolution-proof malaria control with insecticides. *Evolutionary Applications* 2:469–480.
- Kopp, E. B., and R. Medzhitov. 2009. Infection and inflammation in somatic maintenance, growth and longevity. *Evolutionary Applications* 2:132–141.
- Kuparinen, A., S. Kuikka, and J. Merila. 2009. Estimating fisheries-induced selection: traditional gear selectivity research meets fisheries-induced evolution. *Evolutionary Applications* 2:234–243.
- Meirmans, P. G., J. Bousquet, and N. Isabel. 2009. A metapopulation model for the introgression from genetically modified plants into their wild relatives. *Evolutionary Applications* 2:160–171.
- Normandeau, E., J. A. Hutchings, D. J. Fraser, and L. Bernatchez. 2009. Population-specific gene expression responses to hybridization between farm and wild Atlantic salmon. *Evolutionary Applications* 2:489–503.
- Nussle, S., C. N. Bornand, and C. Wedekind. 2009. Fishery-induced selection on an Alpine whitefish: quantifying genetic and environmental effects on individual growth rate. *Evolutionary Applications* 2:200–208.

- Okamoto, K. W., R. Whitlock, P. Magnan, and U. Dieckmann. 2009. Mitigating fisheries-induced evolution in lacustrine brook charr (*Salvelinus fontinalis*) in southern Quebec, Canada. *Evolutionary Applications* 2:415–437.
- Pearce, J. M., A. M. Ramey, P. L. Flint, A. V. Koehler, J. P. Fleskes, J. C. Franson, J. S. Hall *et al.* 2009. Avian influenza at both ends of a migratory flyway: characterizing viral genomic diversity to optimize surveillance plans for North America. *Evolutionary Applications* 2:457–468.
- Pepper, J. W., C. S. Findlay, R. Kassen, S. L. Spencer, and C. C. Maley. 2009. Cancer research meets evolutionary biology. *Evolutionary Applications* 2:62–70.
- Perez-Rodriguez, A., M. J. Morgan, and F. Saborido-Rey. 2009. Comparison of demographic and direct methods to calculate probabilistic maturation reaction norms for Flemish Cap cod (*Gadus morhua*). *Evolutionary Applications* 2:291–298.
- Pongtavornpinyo, W., I. M. Hastings, A. Dondorp, L. J. White, R. J. Maude, S. Saralamba, N. P. Day *et al.* 2009. Probability of emergence of antimalarial resistance in different stages of the parasite life cycle. *Evolutionary Applications* 2:52–61.
- Read, A. F., and S. Huijben. 2009. Evolutionary biology and the avoidance of antimicrobial resistance. *Evolutionary Applications* 2:40–51.
- Redpath, T. D., S. J. Cooke, R. Arlinghaus, D. H. Wahl, and D. P. Philipp. 2009. Life-history traits and energetic status in relation to vulnerability to angling in an experimentally selected teleost fish. *Evolutionary Applications* 2:312–323.
- Reece, S. E., R. S. Ramiro, and D. H. Nussey. 2009. Plastic parasites: sophisticated strategies for survival and reproduction? *Evolutionary Applications* 2:11–23.
- Rossi, M., E. Bitocchi, E. Bellucci, L. Nanni, D. Rau, G. Attene, and R. Papa. 2009. Linkage disequilibrium and population structure in wild and domesticated populations of *Phaseolus vulgaris* L. *Evolutionary Applications* 2:504–522.
- Sadd, B. M., and P. Schmid-Hempel. 2009. Principles of ecological immunology. *Evolutionary Applications* 2:113–121.
- Sharpe, D. M. T., and A. P. Hendry. 2009. Life history change in commercially exploited fish stocks: an analysis of trends across studies. *Evolutionary Applications* 2:260–275.
- Underwood, J. N.. 2009. Genetic diversity and divergence among coastal and offshore reefs in a hard coral depend on geographic discontinuity and oceanic currents. *Evolutionary Applications* 2:222–233.
- Varki, N., D. Anderson, J. G. Herndon, T. Pham, C. J. Gregg, M. Cheriyan, J. Murphy *et al.* 2009. Heart disease is common in humans and chimpanzees, but is caused by different pathological processes. *Evolutionary Applications* 2:101–112.
- Wang, H. Y., and T. O. Hook. 2009. Eco-genetic model to explore fishing-induced ecological and evolutionary effects on growth and maturation schedules. *Evolutionary Applications* 2:438–455.
- Whitlock, M. C., M. A. McPeck, M. D. Rausher, L. Rieseberg, and A. J. Moore. 2010. Editorial: data archiving. *American Naturalist* 175:145–146.
- Zwart, M. P., W. van der Werf, M. M. van Oers, L. Hemerik, J. M. V. van Lent, J. A. G. M. de Visser, J. M. Vlak *et al.* 2009. Mixed infections and the competitive fitness of faster-acting genetically modified viruses. *Evolutionary Applications* 2:209–221.