

FULL PUBLICATION LIST (Updated March 16 2011)**Books, Book Chapters & Special Issues**

5. **Uller, T.** Parental effects in development and evolution. In *Evolution of Parental Care* (eds. N. Royle, P. Smiseth & M. Kölliker), Oxford University Press, UK, forthcoming
4. **Uller, T.**, Stuart-Fox, D. & Olsson, M. 2010. Evolution of primary sexual characters in reptiles. In *Evolution of primary sexual characters in animals* (eds. J. Leonard & A. Cordoba-Aguilar), Oxford University Press, UK
3. **Uller, T.** 2009. Biology and Ethics (Biologi och Etik). In *Animal and Human: Modern Biology and Its Conception of the World (Djuren och Människan: Om den Moderna Biologin och dess Världsbild)*, (ed. L-J Erkell), Studentlitteratur (in Swedish)
2. **Uller, T.**, Wapstra, E. & Badyaev, A. V. 2009. *Evolution of Parental Effects: Conceptual Issues and Empirical Patterns*. Philosophical Transactions of the Royal Society, edited theme issue
1. Sagvik, J. & **Uller, T.** 2008. The role of male and female body size for amplexus and fertilization success in the moor frog, *Rana arvalis*. In *The moor frog, Rana arvalis: Morphology, Behavior, Ecology & Conservation* (ed. D. Glandt), Laurenti Verlag, Germany

In press

88. **Uller, T.**, While, G. M., Cadby, C., Harts, A., O'Connor, K., Pen, I. & Wapstra, E. Altitudinal divergence in maternal thermoregulatory behaviour may be driven by differences in selection on offspring survival in a viviparous lizard. *Evolution, in press*
87. Olsson, M., Pauliny, A., Wapstra, E., **Uller, T.**, Schwartz, T. & Blomqvist, D. Sexual differences in telomere selection in the wild. *Molecular Ecology, in press*
86. Hafer, N., Ebil, S., **Uller, T.** & Pike, N. Transgenerational effects of food availability on age at maturity and reproductive output in an asexual collembolan. *Biology Letters, in press*
85. **Uller, T.** & Helanterä, H. From the origin of sex-determining factors to the evolution of sex-determining systems. *Quarterly Review of Biology, in press*
84. **Uller, T.** & Pen, I. A theoretical model of the evolution of maternal effects under parent-offspring conflict. *Evolution, in press*
83. Olsson, M., Pauliny, A., Wapstra, E., **Uller, T.**, Schwartz, T. & Blomqvist, D. Sex differences in sand lizard telomere inheritance: paternal epigenetic effects increases telomere heritability and offspring survival. *PLoS One, in press*.
82. Shea, N., Pen I. & **Uller, T.** Three epigenetic information channels and their different roles in evolution. *Journal of Evolutionary Biology, in press*

2011

81. Isaksson, C., Sheldon, B. C. & **Uller, T.** 2011. The challenges of integrating oxidative stress and life history biology. *Bioscience* 61:194-202
80. While, G.M., **Uller, T.** & Wapstra, E. 2011. Variation in social organisation influences the opportunity for sexual selection in pair-bonding lizards. *Molecular Ecology* 20: 844-852

79. Olsson, M., Wapstra, E., Schwartz, T., Madsen, T., Ujvari, B., **Uller, T.** 2011. In hot pursuit: Fluctuating mating system and sexual selection in sand lizards. *Evolution* 65: 574-585

2010

78. Pen, I., **Uller, T.**, Feldmeyer, B., Harts, A., While, G. M. & Wapstra, E. 2010. Climate-driven population divergence in sex-determining systems. *Nature* 468: 436-439
77. Cornwallis, C. K. & **Uller, T.** 2010. A dynamic state of affairs – it could be if we let it! *Trends in Ecology & Evolution* 25:430-431
76. Cadby, C. D., While, G. M., Hobday, A., **Uller, T.** & Wapstra, E. 2010. Climate effects on offspring size at birth and date of birth in a reptile. *Integrative Zoology* 5:164-175
75. Helanterä, H. & **Uller, T.** 2010. The Price equation and extended inheritance. *Philosophy & Theory in Biology* 2: e101
74. **Uller, T.** & Olsson, M. 2010. Offspring size and timing of hatching determine survival and reproductive output in a lizard. *Oecologia* 162: 663-671
73. Wapstra, E., **Uller, T.** While, G.M., Olsson, M. & Shine, R. 2010. Giving offspring a head start in life: Field and experimental evidence for selection on maternal basking in a lizard. *Journal of Evolutionary Biology* 23: 651-657
72. Cornwallis, C.K. & **Uller, T.** 2010. Towards an evolutionary ecology of sexual traits. *Trends in Ecology & Evolution* 25: 145-152

2009

71. While, G. M., **Uller, T.**, McEvoy, J. & Wapstra, E. 2009. Long-lasting effects of among- but not within-litter timing of birth in a viviparous lizard. *Evolutionary Ecology Research* 11:1259-1270
70. Olsson, M., Wilson, M., Isaksson, C. & **Uller, T.** 2009. Polymorphic ROS scavenging revealed by CCCP in a lizard. *Naturwissenschaften* 96: 845-849
69. **Uller, T.**, Hollander, J., Astheimer, L. & Olsson, M. 2009. Sex-specific developmental plasticity in response to yolk corticosterone in an oviparous lizard. *Journal of Experimental Biology* 212: 1087-1091
68. Olsson, M., Wilson, M., **Uller, T.** & Isaksson, C. 2009. Free radicals run in lizard families without (and perhaps with) mitochondrial uncoupling. *Biology Letters*, 5: 345-346
67. While, G. M., **Uller, T.** & Wapstra, E. 2009. Family conflict and the evolution of sociality in reptiles. *Behavioral Ecology* 20: 245-250
66. **Uller, T.** & Badyaev, A. V. 2009. Evolution of “determinants” in sex determination: A novel hypothesis for the origin of environmental contingencies in avian sex bias. *Seminars in Cell & Developmental Biology* 20: 304-312
65. Badyaev, A. V & **Uller, T.** 2009. Parental effects in ecology and evolution: Mechanisms, processes, and implications. *Philosophical Transactions of the Royal Society*, 364: 1169-1177
64. Harris, W. E. & **Uller, T.** 2009. Reproductive investment when mate quality varies: differential allocation versus reproductive compensation. *Philosophical Transactions of the Royal Society of London B* 364: 1039-1048
63. Mousseau, T. A., **Uller, T.**, Wapstra, E. & Badyaev, A. V. 2009. Introduction. Evolution of Parental Effects: Past and Present. *Philosophical Transactions of the Royal Society* 364: 1035-1038

62. **Uller, T.**, Sagvik, J. & Olsson, M. 2009. Pre-hatching exposure to water mold reduces size at metamorphosis in the moor frog. *Oecologia* 160: 9-14
61. While, G. M., **Uller, T.** & Wapstra, E. 2009. Offspring performance and adaptive prolongation of pregnancy: experimental test in a lizard. *Functional Ecology* 23: 818-825
60. Olsson, M., Healey, M., Wapstra, E. & **Uller, T.** 2009. Testing the quality of carriers: a field experiment on lizard signallers. *Evolution* 63: 695-701
59. While, G. M., **Uller, T.** & Wapstra, E. 2009. Within population variation in social strategies characterize the social and mating system of an Australian lizard, *Egernia whitii*. *Austral Ecology* 34:938-949
58. **Uller, T.** & Olsson, M. 2009. The offspring size-number problem in a lizard with small clutch size: tests of invariants and potential implications. *Evolutionary Ecology* 23: 363-372
57. Olsson, M. & **Uller, T.** 2009. On parsimonious paternity and scientific rigor: A reply to Madsen. *Molecular Ecology* 18: 25-27
56. Olsson, M., Schwartz, T., **Uller, T.** & Healey, M. 2009. Effects of sperm storage and male colour on probability of paternity in a polychromatic lizard. *Animal Behaviour* 77:419-424
55. **Uller, T.**, While, G. M., Wapstra, E., Warner, D. A., Goodman, B. A., Schwarzkopf, L., Langkilde, T., Doughty, P., Radder, R. S., Rohr, D. H., Bull, C. M., Shine, R., & Olsson, M. 2009. Evaluation of offspring size-number invariants in twelve species of lizard. *Journal of Evolutionary Biology* 22: 143-151
54. Wapstra, E., **Uller, T.**, Sinn, D., Olsson, M., Joss, J. & Shine, R. 2009. Climate effects on offspring sex ratio in a viviparous lizard. *Journal of Animal Ecology* 78: 84-90
53. Warner, D., **Uller, T.** & Shine, R. 2009. Sex-specific consequences of hatching date may drive the evolution of temperature-dependent sex determination in short-lived lizards. *Evolutionary Ecology* 23: 281-294

2008

52. **Uller, T.**, Odierna, G. & Olsson, M. 2008. Sex ratio variation and sex determination in the mallee dragon, *Ctenophorus fordi* (Lacertilia:Agamidae) *Integrative Zoology* 3:157-165
51. Gustavsson, L., Johnsson, J. J. & **Uller, T.** 2008. Mixed support for sexual selection theories of mate preferences in the Swedish population. *Evolutionary Psychology* 6:575-585
50. Sherman, C. S. H., **Uller, T.**, Wapstra, E. & Olsson, M. 2008. Intraspecific variation in sperm traits in a prolonged breeder, Peron's Tree Frog, *Litoria peronii*. *Naturwissenschaften*, 95:1055-1061
49. **Uller, T.** 2008. Developmental plasticity and the evolution of parental effects. *Trends in Ecology & Evolution* 23: 432-438
48. Olsson, M., Wapstra, E., Healey, M., Schwartz, T. & **Uller, T.** 2008. Selection on space use in a polymorphic lizard. *Evolutionary Ecology Research* 10: 621-627
47. **Uller, T.** & Olsson, M. 2008. Multiple paternity in reptiles: patterns and processes. *Molecular Ecology* 17: 2566-2580
46. Sagvik, J., **Uller, T.** & Olsson, M. 2008. A genetic component to resistance to fungal infection in frog embryos. *Proceedings of the Royal Society of London B* 275: 1393-1396

45. Olsson, M., Wilson, M., Isaksson, C., **Uller, T.** & Mott, B. 2008. Carotenoid intake does not mediate a relationship between Reactive Oxygen Species and coloration: experimental test in a lizard. *Journal of Experimental Biology* 21: 1257-1261
44. Olsson, M., Wilson, M., **Uller, T.**, Mott, B. & Isaksson, C. 2008. Variation in Reactive Oxygen Species is explained by family, sex and clutch size. *Naturwissenschaften* 96: 25-29
43. Sherman, C. D. H., Wapstra, E., **Uller, T.** & Olsson, M. 2008. Male and female effects on fertilization success and offspring viability in the Peron's tree frog, *Litoria peronii*. *Austral Ecology* 33: 348-352
42. Olsson, M., Wilson, M., **Uller, T.**, Mott, B. & Isaksson, C. 2008. Free radicals run in lizard families. *Biology Letters* 4:186-188
41. Sherman, C. S. H., Wapstra, E., **Uller, T.** & Olsson, M. 2008. Males with high genetic similarity to females sire more offspring in sperm competition in Peron's tree frog, *Litoria peronii*. *Proceedings of the Royal Society of London B* 275: 971-978
40. Healey, M., **Uller, T.** & Olsson, M. 2008. Variety is the spice of life: Female lizards prefer polymorphic male dyads over monomorphic dyads. *Ethology* 114: 231-237
39. Sagvik, J., **Uller, T.**, Stenlund, T. & Olsson, M. 2008. Intraspecific variation in resistance of frog eggs to fungal infection. *Evolutionary Ecology* 22: 193-201

2007

38. Marshall, D. J. & **Uller, T.** 2007. When is a maternal effect adaptive? *Oikos* 166: 1957-1963
37. Olsson, M., Healey, M., Wapstra, E., Schwartz, T., LeBas, N. & **Uller, T.** 2007. Mating system variation and morph fluctuations in a polymorphic lizard. *Molecular Ecology* 16: 5307-5315
36. Olsson, M., Schwartz, T., **Uller, T.** & Healey, M. 2007. Sons are made from old stores: sperm storage effects on sex ratio in a lizard. *Biology Letters* 3: 491-493
35. Healey, M., **Uller, T.**, Olsson, M. 2007. Seeing red: morph-specific contest success, and survival rates, in a colour-polymorphic agamid lizard. *Animal Behaviour* 73: 337-341
34. **Uller, T.**, Pen, I., Wapstra, E., Beukeboom, L. & Komdeur, J. 2007. Evolution of sex ratios and sex-determining systems. *Trends in Ecology and Evolution* 22: 292-297
33. Wapstra, E., **Uller, T.**, Pen, I., Olsson, M., Shine, R. & Komdeur, J. 2007. Disentangling the complexities of vertebrate sex allocation: a role for squamate reptiles? *Oikos* 116: 1051-1057
32. **Uller, T.**, Astheimer, L. & Olsson, M. 2007. Consequences of maternal yolk testosterone for offspring development and survival: experimental test in a lizard. *Functional Ecology* 21: 544-551

2006

31. **Uller, T.**, Mott, B., Odierna, G. & Olsson, M. 2006. Consistent sex ratio bias of individual female dragon lizards. *Biology Letters* 2: 569-572
30. **Uller, T.** & Olsson, M. 2006. No seasonal sex ratio shift despite sex-specific fitness returns of hatching date in a lizard with genotypic sex determination. *Evolution* 60: 2131-2136
29. **Uller, T.**, Isaksson, C. & Olsson, M. 2006. Immune challenge reduces reproductive output and growth in a lizard. *Functional Ecology* 20: 873-879

28. Isaksson, C., **Uller, T.** & Andersson, S. A. 2006. Parental effects on plumage coloration in nestling great tits, *Parus major*. *Behavioral Ecology and Sociobiology* 60: 556-562
27. **Uller, T.**, Sagvik, J. & Olsson, M. 2006. Crosses between frog populations reveal genetic divergence in larval life history at short geographic distance. *Biological Journal of the Linnean Society* 89: 189-195
26. **Uller, T.** 2006. Sex-specific sibling interactions and offspring fitness in vertebrates: patterns and implications for maternal sex ratios. *Biological Reviews*, 81: 207-217
25. **Uller, T.** & Olsson, M. 2006. Direct exposure to corticosterone during embryonic development influences behaviour in an ovoviviparous lizard. *Ethology*, 112: 390-397
24. **Uller, T.**, Andersson, S. & Eklöf, J. 2006. Juvenile cell mediated immune response is negatively correlated with subsequent adult ornament size in quail. *Evolutionary Ecology*, 20: 1-9

2005

23. Jansson, N., **Uller, T.** & Olsson, M. 2005. Female dragons, *Ctenophorus pictus*, do not prefer scent from unrelated males. *Australian Journal of Zoology*, 53: 279-282
22. **Uller, T.** & Olsson, M. 2005. Continuous male presence required for fertilisation in captive painted dragons, *Ctenophorus pictus*. *Journal of Experimental Zoology*, 303A: 1115-1119
21. **Uller, T.**, Meylan, S., de Fraipont, L. & Clobert, J. 2005. Is sexual dimorphism affected by the combined action of prenatal stress and sex ratio? *Journal of Experimental Zoology*, 303A:1110-1114
20. Olsson, M., Wapstra, E. & **Uller, T.** 2005. Differential sex allocation in sand lizards, *Lacerta agilis*, a species with heteromorphic sex chromosomes. *Biology Letters* 1: 378-380
19. **Uller, T.**, Eklöf, J. & Andersson, S. 2005. Female egg investment in relation to male sexual traits and the potential for transgenerational effects in sexual selection. *Behavioral Ecology and Sociobiology* 57: 584-590
18. Sagvik, J., **Uller, T.** & Olsson, M. 2005. Outbreeding depression in the common frog, *Rana temporaria*. *Conservation Genetics* 6: 205-211
17. **Uller, T.** & Olsson, M. 2005. Multiple copulations in natural populations of lizards: evidence for the fertility assurance hypothesis. *Behaviour* 142: 45-56
16. Olsson, M., Madsen, T., **Uller, T.**, Wapstra, E. & Ujvari, B. 2005. The role of Haldane's rule in sex allocation. *Evolution* 59: 221-225
15. **Uller, T.** & Olsson, M. 2005. The trade-off between offspring size and number in *Lacerta vivipara*: a comparison between field and laboratory conditions. *Journal of Zoology* 265: 295-299

2004

14. **Uller, T.**, Massot, M., Richard, M., Lecomte, J. & Clobert, J. 2004. Long-lasting fitness consequences of prenatal sex ratio in a viviparous lizard. *Evolution* 58: 2511-2516
13. **Uller, T.** & Olsson, M. 2004. Ectoparasite susceptibility in lizards from populations sympatric and allopatric with ticks. *EcoScience* 11: 428-432
12. Olsson, M., Madsen, T., Ujvari, B., **Uller, T.** & Wapstra, E. 2004. Haldane rules: costs of outbreeding at production of daughters in sand lizards. *Ecology Letters* 7: 924-928

11. Andersson, S., **Uller, T.**, Löhmus, M. & Sundström, F. 2004. Effects of egg yolk testosterone on growth and immunity in a precocial bird. *Journal of Evolutionary Biology*, 17: 501-504

2003

10. **Uller, T.** & Olsson, M. 2003. Prenatal exposure to testosterone increases ectoparasite susceptibility in the common lizard, *Lacerta vivipara*. *Proceedings of the Royal Society of London B*. 270: 1867-1870
9. **Uller, T.**, Olsson, M. & Madsen, T. 2003. Family and population effects on disease resistance in a reptile. *Heredity* 91: 112-116
8. **Uller, T.** & Johansson, L. C. 2003. Human mate choice and the wedding ring effect: are married men more attractive? *Human Nature* 14: 267-276
7. **Uller, T.** 2003. Viviparity as a constraint on sex ratio evolution. *Evolution* 57: 927-931
6. **Uller, T.** & Olsson, M. 2003. Life in the land of the midnight sun: are northern lizards adapted to longer days? *Oikos* 101: 317-322
5. Olsson, M & **Uller, T.** 2003. Temperature, survival, and local adaptation in the common frog, *Rana temporaria*. *Evolutionary Ecology Research* 5:431-437
4. **Uller, T.** & Olsson, M. 2003. Prenatal sex ratios influence sexual dimorphism in a reptile. *Journal of Experimental Zoology* 295A: 183-187

2002

3. Olsson, M. & **Uller, T.** 2002. Developmental stability and genetic architecture: a comparison within and across thermal regimes in tadpoles. *Journal of Evolutionary Biology* 15: 625-633
2. **Uller, T.**, Olsson, M. & Ståhlberg, F. 2002. Variation in heritability of tadpole growth: an experimental analysis. *Heredity* 88: 480-484

2001

1. Ståhlberg, F., Olsson, M. & **Uller, T.** 2001. Population divergence of developmental thermal optima in Swedish common frogs, *Rana temporaria*. *Journal of Evolutionary Biology* 14: 755-762

Miscellaneous Publications

- Uller, T.** 2010. Data in need of theory – review of ‘Maternal effects in mammals’, eds Mateo & Maestripieri. *Anim Behav* 79:1399-1400
- Uller, T.** 2008. Review of Haywood, Sacha ‘The laws of evolution and derived lawlike principles’. *Ibis* 150: 849-850
- Uller, T.** 2005. Masculinity and femininity from a biological perspective (Hanligt och honligt ur ett biologiskt perspektiv). In: Dialogues on sex and gender (Dialoger om kön och genus), *Centre for Gender Research, Uppsala University, in Swedish*
- Uller, T.** 2004. Sexual selection and mate choice in humans (Sexuell selektion och partnerval hos människor). *Mervetarna, in Swedish*
- Uller, T.** 2003. Reptiles as model systems in biological research (Reptiler som modellsystem i biologisk forskning) In: Research on non-traditional laboratory animals (Forskning på icke-traditionella försöksdjur). *Animal Ethics Committee Publications 48, in Swedish*