

## Publications in Peer Reviewed Journals

### Reviews

- Cremer, S.\*<sup>1</sup>** & Sixt, M. (2009) Analogies in the evolution of individual and social immunity. *Philosophical Transactions of the Royal Society London B* 364: 129-142, doi: 10.1098/rstb.2008.0166 (online early, to appear 12. January 2009)
- Cremer, S.\***, Armitage, S.A.O. & Schmid-Hempel, P. (2007) Social Immunity. *Current Biology* 17, R693-R702
- Hughes, D.P & **Cremer, S.** (2007) Plasticity in anti-parasite behaviours and its suggested role in invasion biology. *Animal Behaviour* 74, 1593-1599

### Research Papers

- Cremer, S.\***, Ugelvig, L.V., Drijfhout, F.P., Schlick-Steiner, B.C., Steiner, F.M., Seifert, B., Hughes, D.P., Schulz, A., Petersen, K.S., Konrad, H., Stauffer, C., Kiran, K., Espadaler, X., D'Etorre, P., Aktaç, N., Eilenberg, J., Jones, G.R., Nash, D.R., Pedersen, J.S & Boomsma, J.J. The evolution of invasiveness in garden ants. *PLoS One* <http://dx.plos.org/10.1371/journal.pone.0003838>
- Suefuji, M., **Cremer, S.**, Oettler, J. & Heinze, J. (2008) Queen number influences the timing of the sexual production in colonies of *Cardiocondyla* ants. *Biology Letters* 4: 670-673, doi: 10.1098/rsbl.2008.0355 (online early, to appear 23. December 2008)
- Cremer, S.\***, D'Etorre, P., Drijfhout, F.P., Sledge, M.F., Turillazzi, S. & Heinze, J. (2008) Imperfect chemical female mimicry in males of the ant *Cardiocondyla obscurior*, *Naturwissenschaften* 95: 1101-1105
- Ugelvig, L.V., Drijfhout, F.P., Kronauer, D.J.C., Boomsma, J.J., Pedersen, J.S. & **Cremer, S.\*** (2008) The introduction history of invasive garden ants in Europe: integrating genetic, chemical and behavioural approaches, *BMC Biology*, 6 (11), doi:10.1186/1741-7007-6-11
- Ugelvig, L.V. & **Cremer, S.\*** (2007) Social prophylaxis: group interaction promotes collective immunity in ant colonies. *Current Biology* 17, 1967-1971
- Moder, K., Schlick-Steiner, B.C., Steiner, F.M, **Cremer, S.**, Christian, E. & Seifert, B. (2007) Optimal species distinction by discriminant analysis: comparing established methods of character selection with a combination procedure using ant morphometrics as a case study. *Journal of Zoological Systematics and Evolutionary Research* 45(1), 82-87
- Cremer, S.\***, Ugelvig, L.V., Lommen, S.T.E., Petersen, K.S. & Pedersen, J.S. (2006) Attack of the invasive garden ant: aggression behaviour of *Lasius neglectus* (Hymenoptera: Formicidae) against native *Lasius* species in Spain, *Myrmecological News* 9, 9-13
- Ustinova, J., Achman, R., **Cremer, S.** & Mayer, F. (2006) Long repeats in a huge genome: Microsatellite loci in the grasshopper *Chorthippus biguttulus*. *Journal of Molecular Evolution* 62(2), 158-67
- Heinze, J., **Cremer, S.**, Eckl, N. & Schrempf, A. (2006) Stealthy invaders: the biology of *Cardiocondyla* tramp ants. *Insectes sociaux* 53, 1-7
- Schrempf, A., Heinze, J. & **Cremer, S.\*** (2005) Sexual cooperation: mating increases longevity in ant queens. *Current Biology* 15, 267-270
- de Menten, L., **Cremer, S.**, Heinze, J. & Aron, S. (2005) Primary sex ratio adjustment by ant queens in response to local mate competition. *Animal Behaviour* 69, 1031-1035
- Heinze, J., Böttcher, A. & **Cremer, S.** (2004) Production of winged and wingless males in the ant, *Cardiocondyla minutior*. *Insectes Sociaux* 51 (3), 275-278

<sup>1</sup> \* demarks corresponding author activity

- Cremer, S.\*** & Heinze, J. (2003) Stress grows wings: environmental induction of winged dispersal males in *Cardiocondyla* ants. *Current Biology* 13, 219-223
- Anderson, C., **Cremer, S.** & Heinze, J. (2003) Live and let die: why fighter males of the ant *Cardiocondyla* kill each other but tolerate their winged rivals. *Behavioral Ecology* 14 (1), 54-62
- Cremer, S.\***, Sledge, M.F. & Heinze, J. (2002) Male ants disguised by the queen's bouquet. *Nature* 419, 897
- Cremer, S.\***, Lautenschläger, B. & Heinze, J. (2002) A transitional stage between the ergatoid and the winged male morph in *Cardiocondyla obscurior*, *Insectes Sociaux* 49, 221-228
- Cremer, S.\*** & Heinze, J. (2002) Adaptive production of fighter males: ant queens adjust the sex ratio under local mate competition. *Proceedings of the Royal Society of London Series B* 269, 417-422
- Turillazzi, S., Sledge, M.F., **Cremer, S.** & Heinze (2002) A method for analysing small-sized specimens in GC-MS. *Journal of Insect Social Life* 4, 169-175
- Cremer, S.** & Greenfield, M.D. (1998) Partitioning the components of sexual selection: attractiveness and agonistic behaviour in male wax moths, *Achroia grisella* (Lepidoptera: Pyralidae), *Ethology* 104, 1-9

## Research Dissemination

- Cremer, S.\*** & Boomsma, J.J. (2005) The drawback of mobility: invasive species in a globalised world. Proceedings of the Marie Curie Conference Pisa Sept. 2005
- Cremer, S.\*** & Heinze, J. (2003) Zwischen Hochzeitsflug und Brudermord: reproduktive Taktiken bei Ameisenmännchen. *Blick in die Wissenschaft*, Heft 15, 12. Jahrgang, 32-36
- Cremer, S.\*** (2000) Paternity analysis with AFLPs in *Cardiocondyla* ants. *BIF Futura* 15 (1), 68 -71

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