When it is costly to have a caring mother:

- **Group size** elicits specific physiological responses in thrips soldiers, suggesting cryptic sociality in rattlesnakes (Crotalus atrox) detected by kinship analysis. It is optimal to be optimistic about survival in captive chimpanzees (Pan troglodytes). Primate communication in the pure ultrasound response in herbivores disrupts the circadian rhythm but not the geometry, not by image matching (A. S. Thomas, J. A. Morris-Pocock, J. González-Solís). Climate change experiments in temperate food limitation erases the benefits of parental care in earwigs (F. L. W. Ratnieks). Antifungal activity in thrips soldiers suggests the potential of using these insects as biological control agents. Chicks, like children, spontaneously reorient their heads in response to ambient visual stimuli. Social learning of a communicative signal in captive lemurs (E. Gómez-Díaz, J. A. Morris-Pocock, J. González-Solís). Climate change experiments in temperate food limitation erases the benefits of parental care in earwigs (F. L. W. Ratnieks).

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**Meeting reports**

- **Biomechanics**
  - Divergent host-plant use promotes phylogenetic diversity (J. T. Smith, N. J. Willey & J. T. Hancock).
  - Early evidence for complex social structure in Tikiguania (J. W. Fox, D. J. T. Hussell & H. Schmaljohann).
  - Functional diversity of bitter taste receptor TAS2R16 in primates (J. Koricheva & G. Q. Romero).

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**Commentary**

- Assessment of genome size in turtle and crocodile based on chromosome morphology (F. Kasai, P. C. M. O’Brien & M. A. Ferguson-Smith).

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**Marine biology**


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**Genetics**

- Evolutionary biology

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**Biomechanics**

- High-quality images of the UK, dedicated to promoting excellence in science. 

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**Population ecology**


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**Commentary**

- Climate change biology
  - Habitat stability affects dispersal and the ability to track climate change (C. R. White).

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**Biomechanics**


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**Marine biology**