

Publications for Michael Thompson

2019

Buddle, A., Thompson, M., Lindsay, L., Murphy, C., Whittington, C., McAllan, B. (2019). Dynamic changes to claudins in the uterine epithelial cells of the marsupial *Sminthopsis crassicaudata* (Dasyuridae) during pregnancy. *Molecular Reproduction and Development*, 86(6), 639-649. [More Information]

Beekman, M., Thompson, M., Jusup, M. (2019). Ectothermic vertebrates are too cool to care: a response to comments on Beekman et al. *Behavioral Ecology*, 30(3), 596-597. [More Information]

Buddle, A., Van Dyke, J., Thompson, M., Simpfendorfer, C., Whittington, C. (2019). Evolution of placentotrophy: using viviparous sharks as a model to understand vertebrate placental evolution. *Marine and Freshwater Research*, 70(7), 908-924. [More Information]

Laird, M., Thompson, M., Whittington, C. (2019). Facultative oviparity in a viviparous skink (*Saiphos equalis*). *Biology Letters*, 15(4), 1-6. [More Information]

Laird, M., Thompson, M., Whittington, C. (2019). Facultative oviparity in a viviparous skink (*Saiphos equalis*). *Biology Letters*, 15(4), 1-6. [More Information]

Khan, M., Whittington, C., Thompson, M., Byrne, M. (2019). Intra-gonadal incubation of progeny in three viviparous asterinid sea stars that differ in offspring provisioning, lecithotrophy vs matrotrophy. *Marine Biology*, 166(6), 1-17. [More Information]

Dudley, J., Murphy, C., Thompson, M., Lindsay, L., McAllan, B. (2019). Sex steroids influence the plasma membrane transformation in the uterus of the fat-tailed dunnart (*Sminthopsis crassicaudata*, Marsupialia). *Reproduction, Fertility and Development*, 31(4), 633-644. [More Information]

Beekman, M., Thompson, M., Jusup, M. (2019). Thermodynamic constraints and the evolution of parental provisioning in vertebrates. *Behavioral Ecology*, 30(3), 583-591. [More Information]

2018

Cornetti, L., Griffith, O., Benazzo, A., Panziera, A., Whittington, C., Thompson, M., Vernesi, C., Bertorelle, G. (2018). Candidate genes involved in the evolution of viviparity: a RAD sequencing experiment in the lizard *Zootoca vivipara* (Squamata: Lacertidae). *Zoological Journal of the Linnean Society*, 183(1), 196-207. [More Information]

Jarvie, S., Jowett, T., Thompson, M., Seddon, P., Cree, A. (2018). Effects of warm temperatures on metabolic rate and

evaporative water loss in tuatara, a cool-climate rhynchocephalian survivor. *Physiological and Biochemical Zoology: ecological and evolutionary approaches*, 91(4), 950-966. [More Information]

McGlashan, J., Thompson, M., Janzen, F., Spencer, R. (2018). Environmentally induced phenotypic plasticity explains hatching synchrony in the freshwater turtle *Chrysemys picta*. *Journal of Experimental Zoology Part A: Ecological and Integrative Physiology*, 329(6-Jul), 362-372. [More Information]

Goulet, C., Michelangeli, M., Chung, M., Riley, J., Wong, B., Thompson, M., Chapple, D. (2018). Evaluating cognition and thermal physiology as components of the pace-of-life syndrome. *Evolutionary Ecology*, 32(5), 469-488. [More Information]

Laird, M., McShea, H., Murphy, C., McAllan, B., Shaw, G., Renfree, M., Thompson, M. (2018). Non-invasive placentation in the marsupials *Macropus eugenii* (Macropodidae) and *Trichosurus vulpecula* (Phalangeridae) involves redistribution of uterine Desmoglein-2. *Molecular Reproduction and Development*, 85(1), 72-82. [More Information]

Santori, C., Spencer, R., Van Dyke, J., Thompson, M. (2018). Road mortality of the eastern long-necked turtle (*Chelodina longicollis*) along the Murray River, Australia: an assessment using citizen science. *Australian Journal of Zoology*, 66(1), 41-49. [More Information]

Whittington, C., O'Meally, D., Laird, M., Belov, K., Thompson, M., McAllan, B. (2018). Transcriptomic changes in the pre-implantation uterus highlight histotrophic nutrition of the developing marsupial embryo. *Scientific Reports*, 8(1), 1-18. [More Information]

Braz, H., Almeida-Santos, S., Murphy, C., Thompson, M. (2018). Uterine and eggshell modifications associated with the evolution of viviparity in South American water snakes (*Helicops* spp.). *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, 330(3), 165-180. [More Information]

Dudley, J., Murphy, C., Thompson, M., Carter, T., McAllan, B. (2018). Uterine Epithelial Cells Undergo a Plasma Membrane Transformation During Early Pregnancy in the Domestic Cat (*Felis catus*). *The Anatomical Record*, 301(9), 1497-1505. [More Information]

Dudley, J., Murphy, C., Thompson, M., McAllan, B. (2018). Uterine Receptivity in Merriam's Kangaroo Rat (*Dipodomys merriami*). *The Anatomical Record*, 301(11), 1928-1935. [More Information]

2017

Griffith, O., Brandley, M., Whittington, C., Belov, K.,

Thompson, M. (2017). Comparative genomics of hormonal signaling in the chorioallantoic membrane of oviparous and viviparous amniotes. *General and Comparative Endocrinology*, 244, 19-29. [More Information]

Spencer, R., Van Dyke, J., Thompson, M. (2017). Critically evaluating best management practices for preventing freshwater turtle extinctions. *Conservation Biology*, 31(6), 1340-1349. [More Information]

Dudley, J., Murphy, C., Thompson, M., McAllan, B. (2017). Epithelial cadherin disassociates from the lateral plasma membrane of uterine epithelial cells throughout pregnancy in a marsupial. *Journal of Anatomy*, 231(3), 359-365. [More Information]

Whittington, C., Danastas, K., Grau, G., Murphy, C., Thompson, M. (2017). Expression of VEGF111 and other VEGF-A variants in the rat uterus is correlated with stage of pregnancy. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, 187(2), 353-360. [More Information]

Goulet, C., Thompson, M., Chapple, D. (2017). Repeatability and correlation of physiological traits: Do ectotherms have a "thermal type"? *Ecology and Evolution*, 7(2), 710-719. [More Information]

Miller, K., Duran, A., Melville, J., Thompson, M., Chapple, D. (2017). Sex-specific shifts in morphology and colour pattern polymorphism during range expansion of an invasive lizard. *Journal of Biogeography*, 44(12), 2778-2788. [More Information]

Grellet-Tinner, G., Lindsay, S., Thompson, M. (2017). The biomechanical, chemical and physiological adaptations of the eggs of two Australian megapodes to their nesting strategies and their implications for extinct titanosaur dinosaurs. *Journal of Microscopy*, 267(2), 237-249. [More Information]

Pezaro, N., Doody, J., Thompson, M. (2017). The ecology and evolution of temperature-dependent reaction norms for sex determination in reptiles: a mechanistic conceptual model. *Biological Reviews*, 92(3), 1348-1364. [More Information]

Hendrawan, K., Whittington, C., Brandley, M., Belov, K., Thompson, M. (2017). The Regulation of Uterine Proinflammatory Gene Expression during Pregnancy in the Live-Bearing Lizard, *Pseudemoia entrecasteauxii*. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, 328B, 334-346. [More Information]

Goulet, C., Thompson, M., Michelangeli, M., Wong, B., Chapple, D. (2017). Thermal physiology: A new dimension of the pace-of-life syndrome. *Journal of Animal Ecology*, 86(5), 1269-1280. [More Information]

McGlashan, J., Thompson, M., Van Dyke, J., Spencer, R. (2017). Thyroid Hormones Reduce Incubation Period without Developmental or Metabolic Costs in Murray River Short-Necked Turtles (*Emydura macquarii*). *Physiological and*

Biochemical Zoology: ecological and evolutionary approaches, 90(1), 34-46. [More Information]

Laird, M., Turancova, M., McAllan, B., Murphy, C., Thompson, M. (2017). Uterine focal adhesion dynamics during pregnancy in a marsupial (*Sminthopsis crassicaudata*; Dasyuridae). *The Anatomical Record*, 300(6), 1150-1159. [More Information]

Laird, M., Dargan, J., Paterson, L., Murphy, C., McAllan, B., Shaw, G., Renfree, M., Thompson, M. (2017). Uterine molecular changes for non-invasive embryonic attachment in the marsupials *Macropus eugenii* (Macropodidae) and *Trichosurus vulpecula* (Phalangeridae). *Molecular Reproduction and Development*, 84(10), 1076-1085. [More Information]

Laird, M., McShea, H., McAllan, B., Murphy, C., Thompson, M. (2017). Uterine remodelling during pregnancy and pseudopregnancy in the brushtail possum (*Trichosurus vulpecula*; Phalangeridae). *Journal of Anatomy*, 231(1), 84-94. [More Information]

Stewart, J., Thompson, M. (2017). Yolk sac development in lizards (Lacertilia: Scincidae): New perspectives on the egg of amniotes. *Journal of Morphology*, 278(4), 574-591. [More Information]

2016

Griffith, O., Brandley, M., Belov, K., Thompson, M. (2016). Allelic expression of mammalian imprinted genes in a matrotrophic lizard, *Pseudemoia entrecasteauxii*. *Development Genes and Evolution*, 226(2), 79-85. [More Information]

Hechenleitner, E., Grellet-Tinner, G., Foley, M., Fiorelli, L., Thompson, M. (2016). Micro-CT scan reveals an unexpected high-volume and interconnected pore network in a Cretaceous *Sanagasta* dinosaur eggshell. *Journal of the Royal Society Interface*, 13(116), 1-6. [More Information]

Tingley, R., Thompson, M., Hartley, S., Chapple, D. (2016). Patterns of niche filling and expansion across the invaded ranges of an Australian lizard. *Ecography*, 39(3), 270-280. [More Information]

Griffith, O., Brandley, M., Belov, K., Thompson, M. (2016). Reptile Pregnancy Is Underpinned by Complex Changes in Uterine Gene Expression: A Comparative Analysis of the Uterine Transcriptome in Viviparous and Oviparous Lizards. *Genome Biology and Evolution*, 8(10), 3226-3239. [More Information]

Pezaro, N., Thompson, M., Doody, J. (2016). Seasonal sex ratios and the evolution of temperature-dependent sex determination in oviparous lizards. *Evolutionary Ecology*, 30(3), 551-565. [More Information]

Spencer, R., Van Dyke, J., Thompson, M. (2016). The ethological trap: functional and numerical responses of highly efficient invasive predators driving prey extinctions. *Ecological*

Applications, 26(7), 1969-1983. [More Information]

Moule, H., Michelangeli, M., Thompson, M., Chapple, D. (2016). The influence of urbanization on the behaviour of an Australian lizard and the presence of an activity-exploratory behavioural syndrome. *Journal of Zoology*, 298(2), 103-111. [More Information]

2015

Moule, H., Chaplin, K., Bray, R., Miller, K., Thompson, M., Chapple, D. (2015). A matter of time: Temporal variation in the introduction history and population genetic structuring of an invasive lizard. *Current Zoology*, 61(3), 456-464. [More Information]

Griffith, O., Blackburn, D., Brandley, M., Van Dyke, J., Whittington, C., Thompson, M. (2015). Ancestral state reconstructions require biological evidence to test evolutionary hypotheses: A case study examining the evolution of reproductive mode in squamate reptiles. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, 324(6), 493-503. [More Information]

Van Dyke, J., Lindsay, L., Murphy, C., Thompson, M. (2015). Carbonic anhydrase II is found in the placenta of a viviparous, matrotrophic lizard and likely facilitates embryo-maternal CO₂ transport. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, 324B (7), 636-646. [More Information]

Wu, Q., Fong, C., Thompson, M., Murphy, C. (2015). Changes to the uterine epithelium during the reproductive cycle of two viviparous lizard species (*Niveoscincus* spp.). *Acta Zoologica*, 96, 497-509. [More Information]

Dudley, J., Murphy, C., Thompson, M., McAllan, B. (2015). Desmoglein-2 during pregnancy and its role in the evolution of viviparity in a marsupial (*Sminthopsis crassicaudata*; Dasyuridae). *Journal of Morphology*, 276, 261-272. [More Information]

Brandley, M., Bragg, J., Singhal, S., Chapple, D., Jennings, C., Lemmon, A., Lemmon, E., Thompson, M., Moritz, C. (2015). Evaluating the performance of anchored hybrid enrichment at the tips of the tree of life: A phylogenetic analysis of Australian *Eugongylus* group scincid lizards. *BMC Evolutionary Biology*, 15(1), 1-14. [More Information]

McGlashan, J., Loudon, F., Thompson, M., Spencer, R. (2015). Hatching behavior of eastern long-necked turtles (*Chelodina longicollis*): The influence of asynchronous environments on embryonic heart rate and phenotype. *Comparative Biochemistry and Physiology, Part A*, 188, 58-64. [More Information]

Whittington, C., Griffith, O., Qi, W., Thompson, M., Wilson, A. (2015). Seahorse Brood Pouch Transcriptome Reveals Common Genes Associated with Vertebrate Pregnancy. *Molecular Biology and Evolution*, 32(12), 3114-3131. [More Information]

Laird, M., Turancova, M., McAllan, B., Murphy, C., Thompson, M. (2015). Unlocking amniote live birth: The 'other' mammalian model. *Journal and Proceedings of the Royal Society of New South Wales*, 148(455-456), 52-59.

Whittington, C., Grau, G., Murphy, C., Thompson, M. (2015). Unusual angiogenic factor plays a role in lizard pregnancy but is not unique to viviparity. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, 324B (2), 152-158. [More Information]

Danastas, K., Combes, V., Lindsay, L., Grau, G., Thompson, M., Murphy, C. (2015). VEGF111: New insights in tissue invasion. *Frontiers in Physiology*, 6, 1-5. [More Information]

Grau, G., Thompson, M., Murphy, C. (2015). VEGF: Inflammatory paradoxes. *Pathogens and Global Health*, 109(6), 253-254. [More Information]

Van den Berg, F., Thompson, M., Hochuli, D. (2015). When hot rocks get hotter: behavior and acclimatization mitigate exposure to extreme temperatures in a spider. *Ecosphere*, 6(5), 1-17. [More Information]

2014

Chapple, D., Miller, K., Chaplin, K., Barnett, L., Thompson, M., Bray, R. (2014). Biology of the invasive delicate skink (*Lampropholis delicata*) on Lord Howe Island. *Australian Journal of Zoology*, 62(6), 498-506. [More Information]

Van Dyke, J., Griffith, O., Thompson, M. (2014). High Food Abundance Permits the Evolution of Placentotrophy: Evidence from a Placental Lizard, *Pseudemoia entrecasteauxii*. *The American Naturalist*, 184(2), 198-210. [More Information]

Van Dyke, J., Brandley, M., Thompson, M. (2014). The evolution of viviparity: molecular and genomic data from squamate reptiles advance understanding of live birth in amniotes. *Reproduction*, 147(1), R15-R26. [More Information]

Grellet-Tinner, G., Thompson, M., Fiorelli, L., Arganaraz, E., Codorniu, L., Hechenleitner, E. (2014). The first pterosaur 3-D egg: Implications for Pterodaurost guinazui nesting strategies, an Albian filter feeder pterosaur from central Argentina. *Geoscience Frontiers*, 5(6), 759-765. [More Information]

Laird, M., Thompson, M., Murphy, C., McAllan, B. (2014). Uterine Epithelial Cell Changes During Pregnancy in a Marsupial (*Sminthopsis crassicaudata*; Dasyuridae). *Journal of Morphology*, 275(10), 1081-1092. [More Information]

2013

Chapple, D., Whitaker, A., Chapple, S., Miller, K., Thompson, M. (2013). Biosecurity interceptions of an invasive lizard: origin of stowaways and human-assisted spread within New Zealand. *Evolutionary Applications*, 6, 324-339. [More Information]

Information]

Chapple, D., Miller, K., Kraus, F., Thompson, M. (2013). Divergent introduction histories among invasive populations of the delicate skink (*Lampropholis delicata*): Has the importance of genetic admixture in the success of biological invasions been overemphasized? *Diversity and Distributions*, 19(2), 134-146. [More Information]

Wall, M., Thompson, M., Shine, R. (2013). Does foraging mode affect metabolic responses to feeding? A study of pygopodid lizards. *Current Zoology*, 59(5), 618-625. [More Information]

Andrews, R., Thompson, M., Greene, V. (2013). Does Low Gas Permeability of Rigid-Shelled Gekkotan Eggs Affect Embryonic Development? *Journal of Experimental Zoology. Part A: Ecological Genetics and Physiology*, 319(5), 259-267. [More Information]

Griffith, O., Brandley, M., Belov, K., Thompson, M. (2013). Gene expression and the evolution of placental functions in reptiles. *Genetics Society of AustralAsia Inc Annual Conference Sydney - Genetics in the Harbour City*, Sydney: Genetics Society of AustralAsia, Inc.

Pezaro, N., Doody, J., Green, B., Thompson, M. (2013). Hatching and residual yolk internalization in lizards: evolution, function and fate of the amnion. *Evolution and Development*, 15(2), 87-95. [More Information]

Griffith, O., Van Dyke, J., Thompson, M. (2013). No implantation in an extra-uterine pregnancy of a placentotrophic reptile. *Placenta*, 34(6), 510-511. [More Information]

Griffith, O., Ujvari, B., Belov, K., Thompson, M. (2013). Placental lipoprotein Lipase (LPL) Gene Expression in a Placentotrophic Lizard, *Pseudemoia entrecasteauxii*. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, 320(7), 465-470. [More Information]

McKenna, J., Belov, K., Griffith, O., Thompson, M. (2013). Using lizards to investigate the genetic mechanisms controlling uterine angiogenesis during live birth: consequences for cancer. *Genetics Society of Australia Inc Genetics in the Harbour City*, Sydney: UNSW.

2012

Stewart, J., Russell, K., Thompson, M. (2012). Development of yolk sac and chorioallantoic membranes in the Lord Howe Island skink, *Oligosoma lichenigerum*. *Journal of Morphology*, 273(10), 1163-1184. [More Information]

Murphy, B., Brandley, M., Murphy, C., Thompson, M. (2012). Morphology and development of the placenta in *Eulamprus quoyii* group skinks (Squamata: Scincidae). *Journal of Anatomy*, 220(5), 454-471. [More Information]

Stinnett, H., Stewart, J., Ecay, T., Pyles, R., Herbert, J., Thompson, M. (2012). Placental development and expression of calcium transporting proteins in the extraembryonic membranes of a placentotrophic lizard. *Journal of Morphology*, 273(3), 347-

359. [More Information]

Llewellyn, D., Thompson, M., Brown, G., Phillips, B., Shine, R. (2012). Reduced investment in immune function in invasion-front populations of the cane toad (*Rhinella marina*) in Australia. *Biological Invasions*, 14(5), 999-1008. [More Information]

Ramirez-Pinilla, M., Parker, S., Murphy, C., Thompson, M. (2012). Uterine and chorioallantoic angiogenesis and changes in the uterine epithelium during gestation in the viviparous lizard, *Niveoscincus conventryi* (Squamata: Scincidae). *Journal of Morphology*, 273(1), 8-23. [More Information]

Biazik, J., Parker, S., Murphy, C., Thompson, M. (2012). Uterine epithelial morphology and progesterone receptors in a mifepristone-treated viviparous lizard *pseudemoia entrecasteauxii* (Squamata: Scincidae) during gestation. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, 318(2), 148-158. [More Information]

Brandley, M., Young, R., Warren, D., Thompson, M., Wagner, G. (2012). Uterine gene expression in the live-bearing lizard, *Chalcides ocellatus*, reveals convergence of squamate reptile and mammalian pregnancy mechanisms. *Genome Biology and Evolution*, 4(3), 394-411. [More Information]

2011

Murphy, B., Thompson, M. (2011). A review of the evolution of viviparity in squamate reptiles: The past, present and future role of molecular biology and genomics. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, 181(5), 575-594. [More Information]

Llewellyn, D., Brown, G., Thompson, M., Shine, R. (2011). Behavioral Responses to Immune-System Activation in an Anuran (the Cane Toad, *Bufo marinus*): Field and Laboratory Studies. *Physiological and Biochemical Zoology: ecological and evolutionary approaches*, 84(1), 77-86. [More Information]

Chapple, D., Chapple, S., Thompson, M. (2011). Biogeographic barriers in south-eastern Australia drive phylogeographic divergence in the garden skink, *Lampropholis guichenoti*. *Journal of Biogeography*, 38(9), 1761-1775. [More Information]

Wu, Q., Thompson, M., Murphy, C. (2011). Changing distribution of cadherins during gestation in the uterine epithelium of lizards. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, 316(6), 440-450. [More Information]

Chapple, D., Hoskin, C., Chapple, S., Thompson, M. (2011). Phylogeographic divergence in the widespread delicate skink (*Lampropholis delicata*) corresponds to dry habitat barriers in eastern Australia. *BMC Evolutionary Biology*, 11(191), 1-18. [More Information]

Murphy, B., Parker, S., Murphy, C., Thompson, M. (2011).

Placentation in the Eastern Water Skink (*Eulamprus Quoyii*): A Placentome-Like Structure in a Lecithotrophic Lizard. *Journal of Anatomy*, 218(6), 678-689. [More Information]

2010

Murphy, B., Parker, S., Murphy, C., Thompson, M. (2010). Angiogenesis of the uterus and chorioallantois in the eastern water skink *Eulamprus quoyii*. *Journal of Experimental Biology*, 213(19), 3340-3347. [More Information]

Herbert, J., Murphy, C., Thompson, M. (2010). Calcium ATPase Localization in the Uterus of Two Species of *Pseudemoia* (Lacertilia: Scincidae) with Complex Placentae. *Herpetological Conservation and Biology*, 5(2), 290-296.

Biazik, J., Thompson, M., Murphy, C. (2010). Desmosomes in the Uterine Epithelium of Noninvasive Skink Placentae. *The Anatomical Record*, 293(3), 502-512. [More Information]

Murphy, B., Belov, K., Thompson, M. (2010). Evolution of viviparity and uterine angiogenesis: Vascular endothelial growth factor (VEGF) in oviparous and viviparous skinks. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, 314 B(2), 148-156. [More Information]

Du, W., Thompson, M., Shine, R. (2010). Facultative cardiac responses to regional hypoxia in lizard embryos. *Comparative Biochemistry and Physiology, Part A*, 156, 491-494. [More Information]

Pelster, B., Gittenberger-de Groot, A., Poelmann, R., Rombough, P., Schwerte, T., Thompson, M. (2010). Functional Plasticity of the Developing Cardiovascular System: Examples from Different Vertebrates. *Physiological and Biochemical Zoology: ecological and evolutionary approaches*, 83(5), 775-791. [More Information]

Hare, K., Pledger, S., Thompson, M., Miller, J., Daugherty, C. (2010). Nocturnal lizards from a cool-temperate environment have high metabolic rates at low temperatures. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, 180, 1173-1181. [More Information]

Grigg, G., Thompson, M., Beard, L., Harlow, P. (2010). Oxygen levels in mound nests of *Crocodylus porosus* and *Alligator mississippiensis* are high, and gas exchange occurs primarily by diffusion, not convection. *Australian Zoologist*, 35(2), 235-244. [More Information]

Biazik, J., Thompson, M., Murphy, C. (2010). Paracellular and Transcellular Transport Across the Squamate Uterine Epithelium. *Herpetological Conservation and Biology*, 5(2), 257-262.

Gordon, C., Dickman, C., Thompson, M. (2010). Partitioning of temporal activity among desert lizards in relation to prey availability and temperature. *Austral Ecology*, 35(1), 41-52. [More Information]

Linville, B., Stewart, J., Ecay, T., Herbert, J., Parker, S., Thompson, M. (2010). Placental calcium provision in a lizard with prolonged oviductal egg retention. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, 180(2), 221-227. [More Information]

Thompson, M., Blackburn, D., Parker, S. (2010). Reproduction in Reptiles from Genes to Ecology: A Retrospective and Prospective Vision. *Herpetological Conservation and Biology*, 5(2), 252-256.

Stewart, J., Mathieson, A., Ecay, T., Herbert, J., Parker, S., Thompson, M. (2010). Uterine and Eggshell Structure and Histochemistry in a Lizard With Prolonged Uterine Egg Retention (Lacertilia, Scincidae, Saiphos). *Journal of Morphology*, 271(11), 1342-1351. [More Information]

Parker, S., Manconi, F., Murphy, C., Thompson, M. (2010). Uterine and Placental Angiogenesis in the Australian Skinks, *Ctenotus taeniolatus*, and *Saiphos equalis*. *The Anatomical Record*, 293(5), 829-838. [More Information]

Parker, S., Murphy, C., Thompson, M. (2010). Uterine Angiogenesis in Squamate Reptiles: Implications for the Evolution of Viviparity. *Herpetological Conservation and Biology*, 5(2), 330-334.

Robert, K., Thompson, M. (2010). Viviparity and Temperature-Dependent Sex Determination. *Sexual Development*, 4(1-2), 119-128. [More Information]

Gordon, C., Dickman, C., Thompson, M. (2010). What factors allow opportunistic nocturnal activity in a primarily diurnal desert lizard (*Ctenotus pantherinus*)? *Comparative Biochemistry and Physiology, Part A*, 156, 255-261. [More Information]

2009

Murphy, B., Thompson, M., Belov, K. (2009). Evolution of viviparity and the maternal immune system: Major histocompatibility complex (MHC) class I genes in skinks. *Orbit: University of Sydney Undergraduate Research Journal*, 1(1), 1-17.

Munn, A., Dawson, T., McLeod, S., Croft, D., Thompson, M., Dickman, C. (2009). Field metabolic rate and water turnover of red kangaroos and sheep in an arid rangeland: an empirically derived dry-sheep-equivalent for kangaroos. *Australian Journal of Zoology*, 57(1), 23-28. [More Information]

Chapple, D., Thompson, M. (2009). Isolation and characterization of microsatellite loci from the invasive delicate skink (*Lampropholis delicata*), with cross-amplification in other Australian *Eugongylus* group species. *Conservation Genetics Resources*, 1(1), 55-58. [More Information]

Biazik, J., Thompson, M., Murphy, C. (2009). Lysosomal and alkaline phosphatase activity indicate macromolecule transport across the uterine epithelium in two viviparous skinks with complex placenta. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, 312(8), 817-826. [More Information]

href="http://dx.doi.org/10.1002/jez.b.21297">[More Information]

Stewart, J., Ecaj, T., Garland, C., Fregoso, S., Price, E., Herbert, J., Thompson, M. (2009). Maternal provision and embryonic uptake of calcium in an oviparous and a placentotrophic viviparous Australian lizard (Lacertilia: Scincidae). *Comparative Biochemistry and Physiology, Part A*, 153(2), 202-208. [More Information]

Stewart, J., Thompson, M. (2009). Parallel Evolution of Placentation in Australian Scincid Lizards. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, 312(6), 590-602. [More Information]

Stewart, J., Thompson, M. (2009). Placental Ontogeny in Tasmanian Snow Skinks (Genus *Niveoscincus*) (Lacertilia: Scincidae). *Journal of Morphology*, 270, 485-516. [More Information]

Blamires, S., Hochuli, D., Thompson, M. (2009). Prey protein influences growth and decoration building in the orb web spider *Argiope keyserlingi*. *Ecological Entomology*, 34, 545-550. [More Information]

Wu, Q., Parker, S., Thompson, M. (2009). Selected body temperature, metabolic rate and activity pattern of the Australian fossorial skink, *Saiphos equalis*. *Herpetological Journal*, 19, 127-133.

2008

Parker, S., Murphy, C., Thompson, M. (2008). Angiogenesis in the Uterus of the Three-Toed Skink, *Saiphos equalis*. *4th CPB Meeting in Africa: MARA 2008*, Bologna, Italy: Medimond International Proceedings.

Biazik, J., Thompson, M., Murphy, C. (2008). Claudin-5 is restricted to the tight junction region of uterine epithelial cells in the uterus of pregnant/gravid squamate reptiles. *The Anatomical Record*, 291(5), 547-556. [More Information]

Parker, S., Lindsay, L., Herbert, J., Murphy, C., Thompson, M. (2008). Expression and localization of Ca(2+)-ATPase in the uterus during the reproductive cycle of king quail (*Coturnix chinensis*) and zebra finch (*Poephila guttata*). *Comparative Biochemistry and Physiology, Part A*, 149, 30-35. [More Information]

Blamires, S., Hochuli, D., Thompson, M. (2008). Why cross the web: decoration spectral properties and prey capture in an orb spider (*Argiope keyserlingi*) web. *Biological Journal of the Linnean Society*, 94(2), 221-229. [More Information]

2007

Grellet-Tinner, G., Wroe, S., Thompson, M., Ji, Q. (2007). A note on pterosaur nesting behavior. *Historical Biology: An international journal of paleobiology*, 19(4), 273-277. [More Information]

Rogers, K., Thompson, M., Seebacher, F. (2007). Beneficial acclimation: sex specific thermal acclimation of metabolic capacity in the striped marsh frog (*Limnodynastes peronii*).

Journal of Experimental Biology, 210(16), 2932-2938. [More Information]

Thompson, M., Lindsay, L., Herbert, J., Murphy, C. (2007). Calcium ATPase expression in the oviducts of the skink, *Lampropholis guichenoti*. *Comparative Biochemistry and Physiology, Part A*. [More Information]

Thompson, M. (2007). Comparison of the respiratory transition at birth or hatching in viviparous and oviparous amniote vertebrates. *Comparative Biochemistry and Physiology, Part A*, 148(4), 755-760. [More Information]

Blamires, S., Hochuli, D., Thompson, M. (2007). Does decoration building influence antipredator responses in an orb-web spider (*Argiope keyserlingi*) in its natural habitat? *Australian Journal of Zoology*, 55(1), 1-7. [More Information]

Adams, S., Biazik, J., Stewart, R., Murphy, C., Thompson, M. (2007). Fundamentals of viviparity: Comparison of seasonal changes in the uterine epithelium of oviparous and viviparous *Lerista bougainvillii* (Squamata : Scincidae). *Journal of Morphology*, 268(7), 624-635. [More Information]

Blamires, S., Thompson, M., Hochuli, D. (2007). Habitat selection and web plasticity by the orb spider *Argiope keyserlingi* (Argiopidae): Do they compromise foraging success for predator avoidance? *Austral Ecology*, 32(5), 551-563. [More Information]

Robert, K., Thompson, M. (2007). Is basking opportunity in the viviparous lizard, *Eulamprus tympanum*, compromised by the presence of a predator scent? *Journal of Herpetology*, 41(2), 287-293. [More Information]

Hare, K., Pledger, S., Thompson, M., Miller, J., Daugherty, C. (2007). Low cost of locomotion in lizards that are active at low temperatures. *Physiological and Biochemical Zoology: ecological and evolutionary approaches*, 80(1), 46-58. [More Information]

Biazik, J., Thompson, M., Murphy, C. (2007). The tight junctional protein occludin is found in the uterine epithelium of squamate reptiles. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, 177(8), 935-943. [More Information]

Adams, S., Lui, S., Jones, S., Thompson, M., Murphy, C. (2007). Uterine epithelial changes during placentation in the viviparous skink *Eulamprus tympanum*. *Journal of Morphology*, 268(5), 385-400. [More Information]

2006

Thompson, M., Speake, B. (2006). A review of the evolution of viviparity in lizards: structure, function and physiology of the placenta. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, 176(3), 179-189. [More Information]

Information]

Herbert, J., Lindsay, L., Murphy, C., Thompson, M. (2006). Calcium transport across the uterine epithelium of pregnant lizards. *Herpetological Monographs*, 20(1), 205-211.

Spencer, R., Janzen, F., Thompson, M. (2006). Counterintuitive density-dependent growth in a long-lived vertebrate after removal of nest predators. *Ecology*, 87(12), 3109-3118. [More Information]

Hare, K., Pledger, S., Thompson, M., Miller, J., Daugherty, C. (2006). Daily patterns of metabolic rate among New Zealand lizards (Reptilia: Lacertilia: Diplodactylidae and Scincidae). *Physiological and Biochemical Zoology: ecological and evolutionary approaches*, 79(4), 745-753. [More Information]

Shine, R., Thompson, M. (2006). Did embryonic responses to incubation conditions drive the evolution of reproductive modes in squamate reptiles? *Herpetological Monographs*, 20(1), 159-171.

Prosser, C., Hudson, S., Thompson, M. (2006). Effects of urbanization on behavior, performance, and morphology of the Garden Skink, *Lampropholis guichenoti*. *Journal of Herpetology*, 40(2), 151-159. [More Information]

Harvey, P., Thompson, M. (2006). Energetics of emergence in the cicadas, *Cyclochila australasiae* and *Abricta curvica* (Homoptera: Cicadidae). *Journal of Insect Physiology*, 52(9), 905-909. [More Information]

Thompson, M., Blackburn, D. (2006). Evolution of viviparity in Reptiles: Introduction to the symposium. *Herpetological Monographs*, 20, 129-130.

Thompson, M., Biazik, J., Lui, S., Adams, S., Murphy, C. (2006). Morphological and functional changes to the uterus of lizards with different placental complexities. *Herpetological Monographs*, 20(1), 178-185. [More Information]

Nelson, N., Thompson, M., Pledger, S., Keall, S., Daugherty, C. (2006). Performance of Juvenile Tuatara Depends on Age, Clutch, and Incubation Regime. *Journal of Herpetology*, 40(3), 399-403. [More Information]

Walter, E., Thompson, M., Seebacher, F. (2006). Phenotypic flexibility in the metabolic response of the limpet *Cellana tramoserica* to thermally different microhabitats. *Journal of Experimental Marine Biology and Ecology*, 335(1), 131-141. [More Information]

Robert, K., Thompson, M., Seebacher, F. (2006). Thermal biology of a viviparous lizard with temperature-dependant sex determination. *Journal of Thermal Biology*, 31(4), 292-301. [More Information]

Seebacher, F., Schwartz, T., Thompson, M. (2006). Transition from ectothermy to endothermy: the development of metabolic capacity in a bird (*Gallus gallus*). *Proceedings of the Royal Society B: Biological Sciences*, 273(1586), 565-570. [More

Information]

Thomson, M., Herbert, J., Thompson, M. (2006). Tyrosine phosphorylated proteins in the reproductive tract of the viviparous lizard *Eulamprus tympanum* and the oviparous lizard *Lampropholis guichenoti*. *Comparative Biochemistry and Physiology. Part B: Biochemistry and Molecular Biology*, 144(3), 382-386. [More Information]

Stewart, J., Thompson, M., Attaway, M., Herbert, J., Murphy, C. (2006). Uptake of dextran-FITC by epithelial cells of the chorioallantoic placentome and the omphalopleure of the placentotrophic lizard, *Pseudemoia entrecasteauxii*. *Journal of Experimental Zoology. Part A: Ecological Genetics and Physiology*, 305A (10), 883-889. [More Information]

2005

Osborne, L., Thompson, M. (2005). Chemical composition and structure of the eggshell of three oviparous lizards. *Copeia*, 2005 (3), 683-692. [More Information]

Adams, S., Biazik, J., Thompson, M., Murphy, C. (2005). Cyto-epitheliochorial placenta of the viviparous lizard *Pseudemoia entrecasteauxii*: a new placental morphotype. *Journal of Morphology*, 264(3), 264-276. [More Information]

Spencer, R., Thompson, M. (2005). Experimental analysis of the impact of foxes on freshwater turtle populations. *Conservation Biology*, 19(3), 845-854. [More Information]

Thomson, M., Herbert, J., Murphy, C., Thompson, M. (2005). HoxA10-like proteins in the reproductive tract of the viviparous lizard *Eulamprus tympanum* and the oviparous lizard *Lampropholis guichenoti*. *Comparative Biochemistry and Physiology. Part B: Biochemistry and Molecular Biology*, 142(1), 123-127. [More Information]

Thompson, M., Hutchinson, M., Stewart, J. (2005). *Lampropholis delicata* (Delicate Skink, Rainbow Skink). *Herpetological Review*, 36(4), 450-451.

Blamires, S., Spencer, R., King, P., Thompson, M. (2005). Population parameters and life-table analysis of two coexisting freshwater turtles: are the Bellinger River turtle populations threatened? *Wildlife Research*, 32(4), 339-347. [More Information]

2004

Rogers, K., Seebacher, F., Thompson, M. (2004). Biochemical Acclimation Of Metabolic Enzymes In Response To Lowered Temperature In Tadpoles Of *Limnodynastes Peronii*. *Comparative Biochemistry and Physiology, Part A*, 137(4), 731-738. [More Information]

Adams, S., Hosie, M., Murphy, C., Thompson, M. (2004). Changes In Oviductal Morphology Of The Skink, *Lampropholis Guichenoti*, Associated With Egg Production. *Journal of Morphology*, 262(1), 536-544. [More

Information]

Speake, B., Herbert, J., Thompson, M. (2004). Comparison Of The Fatty-Acid Compositions Of Prey Items And Yolks Of Australian Insectivorous Scincid Lizards. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, 174(5), 393-397. [More Information]

Hare, K., Pledger, S., Thompson, M., Miller, J., Daugherty, C. (2004). Conditioning Reduces Metabolic Rate And Time To Steady-State In The Lizard *Naultinus Manukanus* (Reptilia: Gekkonidae). *Comparative Biochemistry and Physiology, Part A*, 139(2), 245-250. [More Information]

Nelson, N., Thompson, M., Pledger, S., Keall, S., Daugherty, C. (2004). Do Tsd, Sex Ratios, And Nest Characteristics Influence The Vulnerability Of Tuatara To Global Warming? *International Congress Series*, 1275, 250-257. [More Information]

Nelson, N., Thompson, M., Pledger, S., Keall, S., Daugherty, C. (2004). Egg Mass Determines Hatchling Size, And Incubation Temperature Influences Post-Hatching Growth, Of Tuatara *Sphenodon Punctatus*. *Journal of Zoology*, 263(1), 77-87. [More Information]

Thompson, M., Speake, B. (2004). Egg Morphology And Composition. In D. C. Deeming (Eds.), *Reptilian Incubation: Environment, Evolution and Behaviour*, (pp. 45-74). Nottingham: Nottingham University Press.

Chen, X., Thompson, M., Dickman, C. (2004). Energy Density And Its Seasonal Variation In Desert Beetles. *Journal of Arid Environments*, 56(3), 559-567. [More Information]

Speake, B., Herbert, J., Thompson, M. (2004). Evidence for placental transfer of lipids during gestation in the viviparous lizard, *Pseudemoia entrecasteauxii*. *Comparative Biochemistry and Physiology, Part A*, 139(2), 213-220. [More Information]

Nelson, N., Thompson, M., Pledger, S., Keall, S., Daugherty, C. (2004). Induction of oviposition produces smaller eggs in tuatara (*Sphenodon punctatus*). *New Zealand Journal of Zoology*, 31(4), 283-289. [More Information]

Thompson, M., Adams, S., Herbert, J., Biazik, J., Murphy, C. (2004). Placental Function In Lizards. *International Congress Series*, 1275, 218-225. [More Information]

Stewart, J., Thompson, M. (2004). Placental Ontogeny Of The Tasmanian Scincid Lizard, *Niveoscincus Ocellatus* (Reptilia : Squamata). *Journal of Morphology*, 259(2), 214-237. [More Information]

Chen, X., Dickman, C., Thompson, M. (2004). Selective consumption by predators of different body regions of prey: is rate of energy intake important? *Journal of Zoology*, 264(2), 189-196. [More Information]

Nelson, N., Cree, A., Thompson, M., Keall, S., Daugherty, C. (2004). Temperature-Dependant Sex Determination In Tuatara. In Not known (Eds.), *Temperature-dependant sex determination in vertebrates*, (pp. 53-58). Washington: Smithsonian Books.

Green, M., Thompson, M., Lemckert, F. (2004). The Effects Of Suspended Sediments On The Tadpoles Of Two Stream-Breeding And Forest-Dwelling Frogs, *Mixophyes Balbus* And *Helioporus Australiacus*. In Lunney, D (Eds.), *Conservation of Australia's Forest Fauna*, (pp. 713-720). Mosman: Royal Zoological Society of NSW.

Seebacher, F., Sparrow, J., Thompson, M. (2004). Turtles (*Chelodina Longicollis*) Regulate Muscle Metabolic Enzyme Activity In Response To Seasonal Variation In Body Temperature. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, 174(3), 205-210. [More Information]

2003

Speake, B., Thompson, M., Thacker, F., Bedford, G. (2003). Distribution of lipids from the yolk to the tissues during development of the water python (*Liasis fuscus*). *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, 173, 541-547. [More Information]

Blackburn, D., Weaber, K., Stewart, J., Thompson, M. (2003). Do Pregnant Lizards Resorb or Abort Inviabile Eggs and Embryos? Morphological Evidence From an Australian skink, *Pseudemoia pagenstecheri*. *Journal of Morphology*, 256(2), 219-234. [More Information]

Iglesias, S., Thompson, M., Seebacher, F. (2003). Energetic cost of a meal in a frequent feeding lizard. *Comparative Biochemistry and Physiology, Part A*, 135(3), 377-382. [More Information]

Thompson, M., Speake, B. (2003). Energy and nutrient utilisation by embryonic reptiles. *Comparative Biochemistry and Physiology, Part A*, 133(3), 529-538. [More Information]

Alibardi, L., Thompson, M. (2003). Epidermal Differentiation During Ontogeny and After Hatching in the Snake *Liasis fuscus* (Pythonidae, Serpentes, Reptilia), With Emphasis on the Formation of the Shedding Complex. *Journal of Morphology*, 256(1), 29-41. [More Information]

Stewart, J., Thompson, M. (2003). Evolutionary Transformations of the Fetal Membranes of Viviparous Reptiles: A Case Study of Two Lineages. *Journal of Experimental Zoology. Part A: Ecological Genetics and Physiology*, 299A (1), 13-32. [More Information]

Robert, K., Thompson, M., Seebacher, F. (2003). Facultative sex allocation in the viviparous lizard *Eulamprus tympanum*, a species with temperature-dependent sex determination. *Australian Journal of Zoology*, 51(4), 367-370. [More Information]

Robert, K., Thompson, M. (2003). Reconstructing Thermochron iButtons to reduce size and weight as a new

technique in the study of small animal thermal biology. *Herpetological Review*, 34(2), 130-132.

Spencer, R., Thompson, M. (2003). The significance of predation in nest site selection of turtles: an experimental consideration of macro- and microhabitat preferences. *Oikos*, 102(3), 592-600. [More Information]

Hosie, M., Adams, S., Thompson, M., Murphy, C. (2003). Viviparous lizard, *Eulamprus tympanum*, shows changes in the uterine surface epithelium during early pregnancy that are similar to the plasma membrane transformation of mammals. *Journal of Morphology*, 258(3), 346-357. [More Information]

2002

Thompson, M., Stewart, J., Speake, B., Hosie, M., Murphy, C. (2002). Evolution of viviparity: what can Australian lizards tell us? *Comparative Biochemistry and Physiology. Part B: Biochemistry and Molecular Biology*, 131(4), 631-643. [More Information]

Alibardi, L., Thompson, M. (2002). Keratinization and ultrastructure of the epidermis of late embryonic stages in the alligator (*Alligator mississippiensis*). *Journal of Anatomy*, 201(1), 71-84. [More Information]

2001

Alibardi, L., Thompson, M. (2001). Fine structure of the developing epidermis in the embryo of the American alligator (*Alligator mississippiensis*, Crocodylia, Reptilia). *Journal of Anatomy*, 198, 265-282.

Spencer, R., Thompson, M., Banks, P. (2001). Hatch or wait? A dilemma in reptilian incubation. *Oikos*, 93, 401-406.

Thompson, M., Russell, K., Speake, B., McCartney, R. (2001). Nutrient uptake by embryos of the Australian viviparous lizard *Eulamprus tympanum*. *Physiological and Biochemical Zoology: ecological and evolutionary approaches*, 74(4), 560-567.

Thompson, M., Russell, K., Speake, B., Stewart, J., McCartney, R. (2001). Placental nutrition in the Tasmanian skink, *Niveoscincus ocellatus*. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, 171, 155-160. [More Information]

Thompson, M., Russell, K., Speake, B., McCartney, R. (2001). Utilisation of lipids, protein, ions and energy during embryonic development of Australian oviparous skinks in the genus *Lampropholis*. *Comparative Biochemistry and Physiology, Part A*, 129, 313-326. [More Information]

Thompson, M., Russell, K., Stewart, J., Speake, B., McCartney, R. (2001). Utilisation of Nutrients by Embryos of the Enigmatic Australian Viviparous Skink *Niveoscincus coventryi*. *Journal of Experimental Zoology. Part A: Ecological Genetics and Physiology*, 290(3), 291-298. [More Information]

Robert, K., Thompson, M. (2001). Viviparous lizard selects sex of embryos. *Nature*, 412, 698-699.