**Australian Wildlife Genomics Group Publications**

**2019**

1. Cheng, Y, Makara, M, Peel, E, Fox, S, Papenfuss, AT, **Belov**, K (2019) Tasmanian devils with contagious cancer exhibit a constricted T-cell repertoire diversity. *Communications Biology* **2**, 99.
2. Cheng, Y, Morris, K (2019) Tasmanian devil immune genes and their function. In: *Saving the Tasmanian Devil: recovery through science based management.* (Eds CJ **Hogg**, S Fox, D Pemberton, K **Belov**)pp. 47-54. CSIRO publishing, Melbourne, Australia.
3. Chong, R, Grueber, CE, Fox, S, Wise, P, Barrs, VR, **Hogg**, CJ, **Belov**, K (2019) Looking like the locals - gut microbiome changes post-release in an endangered species. *Animal Microbiome*.
4. Chong, R, Shi, M, Grueber, CE, Holmes, EC, **Hogg**, CJ, **Belov**, K, Barrs, VR (2019) Fecal Viral Diversity of Captive and Wild Tasmanian Devils Characterized Using Virion-Enriched Metagenomics and Metatranscriptomics. *Journal of Virology* **93**, e00205-00219.
5. Cope, HR, Peck, S, Hobbs, R, Keeley, T, Izzard, S, Yeen-Yap, W, White, PJ, **Hogg**, CJ, Herbert, CA (2019) Contraceptive efficacy and dose-response effects of the gonadotrophin-releasing hormone (GnRH) agonist deslorelin in Tasmanian devils (<i>Sarcophilus harrisii</i>). *Reproduction, Fertility and Development*, -.
6. Day, J, Gooley, RM, **Hogg**, CJ, **Belov**, K, Whittington, CM, Grueber, CE (2019) MHC-associated mate choice under competitive conditions in captive versus wild Tasmanian devils. *Behavioral Ecology*.
7. Farquharson, KA, **Hogg**, CJ, Grueber, CE (2019) A case for genetic parentage assignment in captive group housing. *Conservation Genetics*.
8. Grueber, CE, McLennan, EA (2019) Genetic tools: maintaining genetic diversity in the Tasmanian devil metapopulation. In: *Saving the Tasmanian Devil: recovery through science-based management.* (Eds CJ **Hogg**, S Fox, D Pemberton, K **Belov**)pp. 55-66. CSIRO publishing, Melbourne, Australia.
9. Grueber, CE, Peel, E, Wright, B, **Hogg**, CJ, **Belov**, K (2019) A Tasmanian devil breeding program to support wild recovery. *Reproduction, Fertility and Development* **31**, 1296-1304.
10. **Hogg**, C, **Belov**, K (2019) Tasmanian Devil Facial Tumor Disease. In: *Fowler's Zoo and Wild Animal Medicine Current Therapy.* (Eds RE Miller, N Lamberski, P Calle)pp. 490-493. Elsevier, St Louis, Missouri.
11. **Hogg**, CJ, Fox, S, Pemberton, D, **Belov**, K (2019) Lessons learned and future directions. In: *Saving the Tasmanian Devil: recovery through science based management.* (Eds CJ **Hogg**, S Fox, D Pemberton, K **Belov**)pp. 291-295. CSIRO publishing, Melbourne, Australia.
12. **Hogg**, CJ, Fox, S, Pemberton, D, **Belov**, K (Eds) (2019) *Saving the Tasmanian Devil: recovery through science based management.* CSIRO publishing, Melbourne, Australia.
13. **Hogg**, CJ, Lee, AV, Hibbard, CJ (2019) Managing a metapopulation: intensive to wild and all the places in between. In: *Saving the Tasmanian Devil: recovery through science based management.* (Eds CJ **Hogg**, S Fox, D Pemberton, K **Belov**)pp. 185 - 198. CSIRO publishing, Melbourne, Australia.
14. **Hogg**, CJ, Wright, B, Morris, KM, Lee, AV, Ivy, JA, Grueber, CE, **Belov**, K (2019) Founder relationships and conservation management: empirical kinships reveal the effect on breeding programmes when founders are assumed to be unrelated. *Animal Conservation* **22**, 348-361.
15. McLennan, EA, Wright, BR, **Belov**, K, **Hogg**, CJ, Grueber, CE (2019) Too much of a good thing? Finding the most informative genetic data set to answer conservation questions. *Molecular Ecology Resources* **19**, 659-671.
16. Parrott, ML, Dowling, E, Falkner, T, Hughes, C, Keeley, T, Kelly, A, Miller, KA, Pohl, B, O’Brien, JK, **Hogg**, CJ (2019) Captive research: working together for the common good. In: *Saving the Tasmanian Devil: recovery through science based management.* (Eds CJ **Hogg**, S Fox, D Pemberton, K **Belov**)pp. 251-266. CSIRO publishing, Melbourne, Australia.
17. Peel, E, Chong, R (2019) Microbiomes, pouches and milk: natural solutions? In: *Saving the Tasmanian Devil: recovery through science based management.* (Eds CJ **Hogg**, S Fox, D Pemberton, K **Belov**)pp. 67-76. CSIRO publishing, Melbourne, Australia.
18. Peel, E, Jia, H, Ng, J, **Belov**, K (2019) Monotreme, marsupial and bat immunology. In: *Current Therapy in Medicine of Australian Mammals.* (Eds L Vogelnest, T Portas)pp. 750. CSIRO Publishing, Melbourna, Australia.
19. Russell, T, Lane, A, Clarke, J, **Hogg**, C, Morris, K, Keeley, T, Madsen, T, Ujvari, B (2019) Multiple paternity and precocial breeding in wild Tasmanian devils, Sarcophilus harrisii (Marsupialia: Dasyuridae). *Biological Journal of the Linnean Society*.
20. Wise, P, Peck, S, Clarke, J, **Hogg**, CJ (2019) Conservation introduction of Tasmanian devils to Maria Island: a managed response to DFTD. In: *Saving the Tasmanian Devil: recovery through science based management.* (Eds CJ **Hogg**, S Fox, D Pemberton, K **Belov**)pp. 223-236. CSIRO publishing, Melbourne, Australia.
21. Wright, B, Farquharson, KA, McLennan, EA, **Belov**, K, **Hogg**, CJ, Grueber, CE (2019) From reference genomes to population genomics: comparing three reference-aligned reduced-representation sequencing pipelines in two wildlife species. *BMC Genomics* **20**, 453.
22. Wright, B, Ujvari, B, Deakin, J, Murchison, EP, **Belov**, K (2019) Revealing the origin and evolutionary trajectory of DFTD using genetics and genomics. In: *Saving the Tasmanian Devil: recovery through science based management.* (Eds CJ **Hogg**, S Fox, D Pemberton, K **Belov**)pp. 31-46. CSIRO publishing, Melbourne, Australia.
23. Wright, BR, Grueber, CE, Lott, MJ, **Belov**, K, Johnson, RN, **Hogg**, CJ (2019) Impact of reduced-representation sequencing protocols on detecting population structure in a threatened marsupial. *Molecular Biology Reports*.
24. Young, LJ, Gurr, J, Morris, K, Flenady, S, **Belov**, K (2019) Molecular characterisation of Interleukin-2 in two Australian marsupials (the tammar wallaby, Notamacropus eugenii, and the Tasmanian devil, Sarcophilus harrisii) facilitates the development of marsupial-specific immunological reagents. *Australian Mammalogy* **41**, 39-48.

**2018**

1. Brandies, P, Grueber, C, **Hogg**, C, **Belov**, K (2018) MHC Genes and Mate Choice. (Edspp.
2. Brandies, PA, Grueber, CE, Ivy, JA, **Hogg**, CJ, **Belov**, K (2018) Disentangling the mechanisms of mate choice in a captive koala population. *PeerJ* **6**, e5438.
3. Byrne, M, Broadhurst, L, Leishman, M, **Belov**, K (2018) Women in conservation science making a difference. *Pacific Conservation Biology* **24**, 209-214.
4. Cheng, Y, Polkinghorne, A, Gillett, A, Jones, EA, O’Meally, D, Timms, P, **Belov**, K (2018) Characterisation of MHC class I genes in the koala. *Immunogenetics* **70**, 125-133.
5. Cope, HR, **Hogg**, CJ, Fagg, K, Barnard, O, White, PJ, Herbert, CA (2018) Effects of deslorelin implants on reproduction and feeding behavior in Tasmanian devils (Sarcophilus harrisii) housed in free-range enclosures. *Theriogenology* **107**, 134-141.
6. Cope, HR, **Hogg**, CJ, White, PJ, Herbert, CA (2018) A role for selective contraception of individuals in conservation. *Conservation Biology* **32**, 546-558.
7. Ewart, KM, Frankham, GJ, McEwing, R, The, DT, **Hogg**, CJ, Wade, C, Lo, N, Johnson, RN (2018) A rapid multiplex PCR assay for presumptive species identification of rhinoceros horns and its implementation in Vietnam. *PLOS ONE* **13**, e0198565.
8. Farquharson, KA, Gooley, RM, Fox, S, Huxtable, SJ, **Belov**, K, Pemberton, D, **Hogg**, CJ, Grueber, CE (2018) Are any populations ‘safe’? Unexpected reproductive decline in a population of Tasmanian devils free of devil facial tumour disease. *Wildlife Research* **45**, 31-37.
9. Farquharson, KA, **Hogg**, CJ, Grueber, CE (2018) A meta-analysis of birth-origin effects on reproduction in diverse captive environments. *Nature Communications* **9**, 1055.
10. Fernandez-Rojo, MA, Deplazes, E, Pineda, SS, Brust, A, Marth, T, Wilhelm, P, Martel, N, Ramm, GA, Mancera, RL, Alewood, PF, Woods, GM, **Belov**, K, Miles, JJ, King, GF, Ikonomopoulou, MP (2018) Gomesin peptides prevent proliferation and lead to the cell death of devil facial tumour disease cells. *Cell Death Discovery* **4**, 19.
11. Fox, S, **Hogg**, CJ, Grueber, CE, **Belov**, K (2018) Devil women. *Pacific Conservation Biology* **24**, 271-279.
12. Gooley, RM, **Hogg**, CJ, **Belov**, K, Grueber, CE (2018) The effects of group versus intensive housing on the retention of genetic diversity in insurance populations. *BMC Zoology* **3**, 2.
13. Grueber, CE, Fox, S, **Belov**, K, Pemberton, D, **Hogg**, CJ (2018) Landscape-level field data reveal broad-scale effects of a fatal, transmissible cancer on population ecology of the Tasmanian devil. *Mammalian Biology* **91**, 41-45.
14. Grueber, CE, Fox, S, McLennan, EA, Gooley, RM, Pemberton, D, **Hogg**, CJ, **Belov**, K (2019) Complex problems need detailed solutions: Harnessing multiple data types to inform genetic management in the wild. *Evolutionary Applications* **12**, 280-291.
15. Grueber, CE, Gray, LJ, Morris, KM, Simpson, SJ, Senior, AM (2018) Intergenerational effects of nutrition on immunity: a systematic review and meta-analysis. *Biological Reviews* **93**, 1108-1124.
16. Harley, D, Mawson, P, Olds, L, McFadden, M, **Hogg**, C (2018) The contribution of captive breeding in zoos to the conservation of Australia’s threatened fauna. In: *Recovering Australian Threatened Species: A Book of Hope.* (Edspp. 281 - 294.
17. Hivert, L, Clarke, J, Peck, S, Lawrence, C, Brown, W, Huxtable, S, Schaap, D, Pemberton, D, Grueber, C (2018) High blood lead concentrations in captive Tasmanian devils (Sarcophilus harrisii): a threat to the conservation of the species? *Australian Veterinary Journal* **96**, 442-449.
18. **Hogg**, C, Brandies, P, Wright, B, Grueber, C (2018) Measuring the impact of the Woolgoolga to Ballina Upgrade on local koala populations: faecal cortisol metabolite concentration before, during and after phased resource reduction and during clearing. *Report prepared by the Australasian Wildlife Genomics Group, University of Sydney, for NSW Roads and Maritime Services Kavanagh, R, Stanton, M and Brassil*, 94-107.
19. **Hogg**, CJ, Dennison, S, Frankham, GJ, Hinds, M, Johnson, RN (2018) Stopping the spin cycle: genetics and bio-banking as a tool for addressing the laundering of illegally caught wildlife as ‘captive-bred’. *Conservation Genetics Resources* **10**, 237-246.
20. **Hogg**, CJ, Taylor, HR, Fox, S, Grueber, CE (2018) Response to Britt et al. 2018 “The importance of non-academic co-authors in bridging the conservation genetics gap” Biological Conservation 218, 118–123. *Biological Conservation* **222**, 287-288.
21. Johnson, RN, O’Meally, D, Chen, Z, Etherington, GJ, Ho, SYW, Nash, WJ, Grueber, CE, Cheng, Y, Whittington, CM, Dennison, S, Peel, E, Haerty, W, O’Neill, RJ, Colgan, D, Russell, TL, Alquezar-Planas, DE, Attenbrow, V, Bragg, JG, Brandies, PA, Chong, AYY, Deakin, JE, Di Palma, F, Duda, Z, Eldridge, MDB, Ewart, KM, **Hogg**, CJ, Frankham, GJ, Georges, A, Gillett, AK, Govendir, M, Greenwood, AD, Hayakawa, T, Helgen, KM, Hobbs, M, Holleley, CE, Heider, TN, Jones, EA, King, A, Madden, D, Graves, JAM, Morris, KM, Neaves, LE, Patel, HR, Polkinghorne, A, Renfree, MB, Robin, C, Salinas, R, Tsangaras, K, Waters, PD, Waters, SA, Wright, B, Wilkins, MR, Timms, P, **Belov**, K (2018) Adaptation and conservation insights from the koala genome. *Nature Genetics* **50**, 1102-1111.
22. Madden, D, Whaite, A, Jones, E, **Belov**, K, Timms, P, Polkinghorne, A (2018) Koala immunology and infectious diseases: How much can the koala bear? *Developmental & Comparative Immunology* **82**, 177-185.
23. McLennan, EA, Gooley, RM, Wise, P, **Belov**, K, **Hogg**, CJ, Grueber, CE (2018) Pedigree reconstruction using molecular data reveals an early warning sign of gene diversity loss in an island population of Tasmanian devils (Sarcophilus harrisii). *Conservation Genetics* **19**, 439-450.
24. Ogunniyi, AD, Kopecki, Z, Hickey, EE, Khazandi, M, Peel, E, **Belov**, K, Boileau, A, Garg, S, Venter, H, Chan, WY, Hill, PB, Page, SW, Cowin, AJ, Trott, DJ (2018) Bioluminescent murine models of bacterial sepsis and scald wound infections for antimicrobial efficacy testing. *PLOS ONE* **13**, e0200195.
25. Peel, E, **Belov**, K (2018) Lessons learnt from the Tasmanian devil facial tumour regarding immune function in cancer. *Mammalian Genome* **29**, 731-738.
26. Pye, R, Patchett, A, McLennan, E, Thomson, R, Carver, S, Fox, S, Pemberton, D, Kreiss, A, Baz Morelli, A, Silva, A, Pearse, MJ, Corcoran, LM, **Belov**, K, **Hogg**, CJ, Woods, GM, Lyons, AB (2018) Immunization Strategies Producing a Humoral IgG Immune Response against Devil Facial Tumor Disease in the Majority of Tasmanian Devils Destined for Wild Release. *Frontiers in Immunology* **9**.
27. Pye, R, Patchett, A, McLennan, E, Thomson, R, Carver, S, Fox, S, Pemberton, D, Kreiss, A, Morelli, AB, Silva, A, Pearse, MJ, Corcoran, LM, **Belov**, K, **Hogg**, CJ, Woods, GM, Bruce Lyons, A (2018) Immunization strategies producing a humoral IgG immune response against devil facial tumor disease in the majority of Tasmanian devils destined for wild release. *Frontiers in Immunology* **9**.
28. Russell, T, Lisovski, S, Olsson, M, Brown, G, Spindler, R, Lane, A, Keeley, T, Hibbard, C, **Hogg**, CJ, Thomas, F, **Belov**, K, Ujvari, B, Madsen, T (2018) MHC diversity and female age underpin reproductive success in an Australian icon; the Tasmanian Devil. *Scientific Reports* **8**, 4175.
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**2017**

1. Brandies, P.A., **Grueber**, C.E., Ivy, J.A., **Hogg**, C.J. and **Belov**, K., (2017). Disentangling the mechanisms of mate choice in a captive koala population. PeerJ PrePrints.
2. Cheng, Y., & **Belov, K.** (2017). Antimicrobial Protection of Marsupial Pouch Young. Frontiers in microbiology, 8, 354.
3. Cheng, Y., Heasman, K., Peck, S., Peel, E., Gooley, R. M., Papenfuss, A. T., **Hogg, C. J.**, & **Belov, K.** (2017). Significant decline in anticancer immune capacity during puberty in the Tasmanian devil. Scientific Reports, 7. doi:10.1038/srep44716
4. Cheng, Y., Polkinghorne, A., Gillett, A., Jones, E. A., O’Meally, D., Timms, P., & **Belov, K.** (2017). Characterisation of MHC class I genes in the koala. Immunogenetics, 1-9.
5. Gooley, R., **Hogg, C. J.**, **Belov, K.**, & **Grueber, C. E.** (2017). No evidence of inbreeding depression in a Tasmanian devil insurance population despite significant variation in inbreeding. Scientific Reports, 7. doi:10.1038/s41598-017-02000-y
6. Griffith, O. W., Brandley, M. C., Whittington, C. M., **Belov, K.**, & Thompson, M. B. (2017). Comparative genomics of hormonal signaling in the chorioallantoic membrane of oviparous and viviparous amniotes. General and Comparative Endocrinology, 244, 19-29. doi:https://doi.org/10.1016/j.ygcen.2016.04.017
7. **Grueber, C. E.**, Reid-Wainscoat, E. E., Fox, S., **Belov, K.**, Shier, D. M., **Hogg, C. J.**, & Pemberton, D. (2017). Increasing generations in captivity is associated with increased vulnerability of Tasmanian devils to vehicle strike following release to the wild. Scientific Reports, 7. doi:10.1038/s41598-017-02273-3
8. Hendrawan, K., Whittington, C. M., Brandley, M. C., **Belov, K.**, & Thompson, M. B. (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, 328(4), 334-346. doi:10.1002/jez.b.22733
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10. **Hogg, C. J.**, **Grueber, C. E.**, Pemberton, D., Fox, S., Lee, A. V., Ivy, J. A., & **Belov, K.** (2017). "Devil Tools & Tech": A Synergy of Conservation Research and Management Practice. Conservation Letters, 10(1), 133-138. doi:10.1111/conl.12221
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13. McLennan, E. A., Gooley, R. M., Wise, P., **Belov, K.**, **Hogg, C. J.**, & **Grueber, C. E.** (2017). Pedigree reconstruction using molecular data reveals an early warning sign of gene diversity loss in an island population of Tasmanian devils (Sarcophilus harrisii). Conservation Genetics. doi:10.1007/s10592-017-1017-8
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21. **Hogg, C. J.**, Lee, A. V., Srb, C. & Hibbard, C. (2017): Metapopulation management of an Endangered species with limited genetic diversity in the presence of disease: the Tasmanian devil Sarcophilus harrisii. International Zoo Yearbook 51: 137-153. DOI: 10.1111/izy.12144
22. **Grueber CE**, Gray LJ, Morris, KM, Simpson SJ, Senior AM (online early) Intergenerational effects of nutrition on immunity: a systematic review and meta-analysis. Biological Reviews online early 27/10/2017.
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**2016**

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