

Scientific bibliography from “Tuatara: biology and conservation of a venerable survivor”

- A Party of Officers of the 58th Regiment. 1852. The ngararas of the Rurimas. *New Zealander*, Auckland, 24 April pp. 3–4. [Reprinted 1982 in *Historical Review*, (Whakatane and District Historical Society) 30: 54–61.]
- Abbasi, A., Wells, R. M. G., Brittain, T. and Braunitzer, G. 1988. Primary structure of the hemoglobins from *Sphenodon* (*Sphenodon punctatus*, tuatara, Rhynchocephalia) – evidence for the expression of α^D -gene. *Biological Chemistry* 369: 755–764.
- Abbie, A. A. 1933. The blood supply of the lateral geniculate body, with a note on the morphology of the choroidal arteries. *Journal of Anatomy* 67: 491–521.
- Adams, W. E. 1953. The carotid arch in lizards with particular reference to the origin of the internal carotid artery. *Journal of Morphology* 92: 115–155.
- Aitken, N., Hay, J. M., Sarre, S. D., Lambert, D. M. and Daugherty, C. H. 2001. Microsatellite DNA markers for tuatara (*Sphenodon* spp.). *Conservation Genetics* 2: 183–185.
- Ali, S. M. 1941. Studies on the comparative anatomy of the tail in Sauria and Rhynchocephalia. *Proceedings of the Indian Academy of Sciences* 13: 171–193.
- Alibardi, L. 1992. Glial cell composition and ultrastructure of the caudal spinal cord of young and adult tuataras, *Sphenodon punctatus*. *Acta Zoologica (Stockholm)* 73: 157–162.
- Alibardi, L. 1999. Keratohyalin-like granules in embryonic and regenerating epidermis of lizards and *Sphenodon punctatus* (Reptilia, Lepidosauria). *Amphibia-Reptilia* 20: 11–23.
- Alibardi, L. 2003. Adaptation to the land: the skin of reptiles in comparison to that of amphibians and endotherm amniotes. *Journal of Experimental Zoology* 298B: 12–41.
- Alibardi, L. 2009. Development, comparative morphology and cornification of reptilian claws in relation to claws evolution in tetrapods. *Contributions to Zoology* 78: 25–42.
- Alibardi, L. 2010. *Morphological and cellular aspects of tail and limb regeneration in lizards: a model system with implications for tissue regeneration in mammals*. Springer, Berlin. 112 p.
- Alibardi, L. 2011. Cytology and localization of chromatophores in the skin of the tuatara (*Sphenodon punctatus*). *Acta Zoologica (Stockholm)* 00: 1–8. doi: 10.1111/j.1463-6395.2011.00506.x.
- Alibardi, L. 2012a. Cytology and localization of chromatophores in the skin of the tuatara (*Sphenodon punctatus* [sic]). *Acta Zoologica (Stockholm)* 93: 330–337.
- Alibardi, L. 2012b. Immunolocalization of keratin-associated beta-proteins (beta-keratins) in scales of the reptiles [sic] *Sphenodon punctatus* indicates that different beta-proteins are present in beta- and alpha-layers. *Tissue and Cell* 44: 378–384.
- Alibardi, L. 2013a. Cornification in reptilian epidermis occurs through the deposition of keratin-associated beta-proteins (beta-keratins) onto a scaffold of intermediate filament keratins. *Journal of Morphology* 274: 175–193.
- Alibardi, L. 2013b. Granulocytes of reptilian sauropsids contain beta-defensin-like peptides: a comparative ultrastructural survey. *Journal of Morphology* 274: 877–886.

- Alibardi, L. and Gill, B. J. 2007. Epidermal differentiation in embryos of the tuatara *Sphenodon punctatus* (Reptilia, Sphenodontidae) in comparison with the epidermis of other reptiles. *Journal of Anatomy* 211: 92–103.
- Alibardi, L. and Maderson, P. F. A. 2003a. Observations on the histochemistry and ultrastructure of the epidermis of the tuatara, *Sphenodon punctatus* (Sphenodontida, Lepidosauria, Reptilia): a contribution to an understanding of the lepidosaurian epidermal generation and the evolutionary origin of the squamate shedding complex. *Journal of Morphology* 256: 111–133.
- Alibardi, L. and Maderson, P. F. A. 2003b. Observations on the histochemistry and ultrastructure of regenerating caudal epidermis of the tuatara *Sphenodon punctatus* (Sphenodontida, Lepidosauria, Reptilia). *Journal of Morphology* 256: 134–145.
- Alibardi, L. and Meyer-Rochow, V. B. 1989. Comparative fine structure of the axial skeleton inside the regenerated tail of some lizard species and the tuatara (*Sphenodon punctatus*). *Gegenbaurs Morphologisches Jahrbuch* 135: 705–716.
- Alibardi, L. and Meyer-Rochow, V. B. 1990a. Fine structure of regenerating caudal spinal cord in adult tuatara (*Sphenodon punctatus*). *Journal für Hirnforschung* 31: 613–621.
- Alibardi, L. and Meyer-Rochow, V. B. 1990b. Ultrastructural survey of the spinal cord of young tuatara (*Sphenodon punctatus*) with emphasis on the glia. *New Zealand Journal of Zoology* 17: 73–85.
- Alibardi, L. and Sawyer, R. H. 2002. Immunocytochemical analysis of beta (β) keratins in the epidermis of chelonians, lepidosaurians, and archosaurians. *Journal of Experimental Zoology* 293: 27–38.
- Alibardi, L. and Toni, M. 2006a. Immunological characterization and fine localization of a lizard beta-keratin. *Journal of Experimental Zoology* 306B: 528–538.
- Alibardi, L. and Toni, M. 2006b. Distribution and characterization of keratins in the epidermis of the tuatara (*Sphenodon punctatus*; Lepidosauria, Reptilia). *Zoological Science* 23: 801–807.
- Allen, O. M. 1939. Museum case in living flesh. *Digest of World Reading* 1 August: 32–34.
- Allendorf, F. W. 2001. Genetics and the viability of insular populations of reptiles. In: Abstracts of papers presented at the 9th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, St Arnaud, Nelson Lakes, New Zealand, 2–4 February 2001. *New Zealand Journal of Zoology* 28: 361.
- Alley, M. R., Gartrell, B. D. and Morgan, K. J. 2004. Wildlife cases from Massey University October 2003–April 2004. *Kokako* 11: 13.
- Allison, B. and Blair, D. 1987. The genus *Dolichosaccus* (Platyhelminthes: Digenea) from amphibians and reptiles in New Zealand, with a description of *Dolichosaccus (Lecithopyge) leiolopismae* n. sp. *New Zealand Journal of Zoology* 14: 367–374.
- Allison, F. R. 1982. Parasites of New Zealand reptiles. In: Newman, D. G. (ed.). *New Zealand Herpetology*. New Zealand Wildlife Service Occasional Publication No. 2, Wellington, pp.

419–422.

- Ananjeva, N. B. and Dujsebayaeva, T. N. 1997. SEM study of skin sense organs in two *Uromastyx* species (Sauria: Agamidae) and *Sphenodon punctatus* (Rhynchocephalia: Sphenodontidae). *Russian Journal of Herpetology* 4: 46–49.
- Anon. 1872. [On a tuatara captured on Ruarimu [*sic*] Rocks by Major Mair]. *Transactions and Proceedings of the New Zealand Institute* 4: 388.
- Anon. 1882a. A new case of commensalism. *Nature* 26: 608–609.
- Anon. 1882b. [On tuatara collected from Karewa Island by Captain Fairchild, and others kept as pets]. *New Zealand Herald*, Auckland, 9 February, p. 5.
- Anon. 1883. Local and general [on tuatara collected by Captain Fairchild from the Brothers Islands near Stewart’s Island]. *Otago Witness*, Dunedin, 13 January, p. 9.
- Anon. 1885a. Land and water [on Mr Charles Bills taking tuatara ‘Home’]. *Otago Witness*, Dunedin, 18 April, p. 21.
- Anon. 1885b. Tuatara lizards. *Bay of Plenty Times*, Tauranga, 10 March, p. 2.
- Anon. 1886. Otago Institute. *Transactions and Proceedings of the New Zealand Institute* 18: 427.
- Anon. 1887. Local and general [on tuatara found in a Ponsonby coal cellar]. *Otago Witness*, Dunedin, 11 March, pp. 9–10.
- Anon. 1890. [On specimens of *Hatteria* exhibited by G. B. Howes showing the ‘pro-atlas’ and vomerine teeth]. *Proceedings of the Zoological Society of London* 25: 357–360.
- Anon. 1892. [On Captain Fairchild taking 20 tuatara for the Sydney Museum]. *Bay of Plenty Times and Thames Valley Warden*, Tauranga, 13 June, p. 2.
- Anon. 1893. [On tuatara escaped from Government House in Auckland]. *Bay of Plenty Times*, Tauranga, 7 April, p. 6.
- Anon. 1895. Exhibits. *Transactions and Proceedings of the New Zealand Institute* 27: 659–660.
- Anon. 1896. A lizard of sense. *Southlander*, Invercargill, 10 April (page unknown).
- Anon. 1898. [On the likely disappearance of the few tuatara that remain on East Island]. *Poverty Bay Herald*, Gisborne, 12 September, p. 2.
- Anon. 1899a. Southland news notes [on a tuatara at the Invercargill Athaneum]. *Otago Witness*, Dunedin, 20 July, p. 34.
- Anon. 1899b. Foreign scientists in New Zealand. *Press*, Christchurch, 11 July, p. 4.
- Anon. 1903. Passing notes [on tuatara at Opawa Fisheries]. *Otago Witness*, Dunedin, 9 December, p. 5.
- Anon. 1904. [On Cockayne’s observations on the effects of cats on Stephens Island]. *New Zealand Herald*, Auckland, 28 January, p. 4.
- Anon. 1907. General news [on the exhibition of six tuatara at the Imperial Zoological Gardens in Schoenbrunn, Austria]. *Bay of Plenty Times*, Tauranga, 4 November, p. 4.
- Anon. 1908a. The tuatara lizard. *Otago Witness*, Dunedin, 11 November, p. 18.

- Anon. 1908b. Interesting scientific find. *Bay of Plenty Times*, Tauranga, 6 May, p. 2.
- Anon. 1909. Local and general [on Percy Isaac and his pet tuatara]. *Bay of Plenty Times*, Tauranga, 25 October, p. 2.
- Anon. 1913a. Ancient reptile: the disappearing tuatara: efforts at preservation. *Evening Post*, Wellington, 7 June, p. 9.
- Anon. 1913b. The tuatara: more protection: interesting reptiles on islands. *Lyttelton Times*, Christchurch, 30 June [page unknown; copy in ANZ IA 1 46/18/4 pt 1].
- Anon. 1913c. Topics of the day. Sanctuaries invaded. *Evening Post*, Wellington, 13 June, p. 6.
- Anon. 1915a. [On a tuatara found at the back of a house in Auckland]. In: *Fildes Cuttings #639*. Beaglehole Collection, Victoria University of Wellington Library, Wellington, p. 65.
- Anon. 1915b. Habits of the tuatara: many observers' notes. In: *Fildes Cuttings #639*. Beaglehole Collection, Victoria University of Wellington Library, Wellington, p. 61.
- Anon. 1922. The tuatara lizard. *Forest Magazine (New Zealand Out-of-Doors)* 1 July: 113.
- Anon. 1931. [On tuatara of the Mokohinau Islands]. *Dominion*, Wellington, 11 August [page unknown; copy in ANZ IA 1 M1 25/611 pt 3].
- Anon. 1952. Oldest inhabitants. *New Zealand Listener* 28 (No. 701, 12 December): 6.
- Anon. 1954. First home-grown tuataras. *Natural History (New York)* 63: 422–423.
- Anon. 1955a. Home-reared tuatara in Auckland. *New Zealand Herald*, Auckland, 17 June, p. 10.
- Anon. 1955b. First captive-bred tuataras were in Auckland. *New Zealand Herald*, Auckland, 20 June, p. 8.
- Anon. 1966. Old three eyes. *New Zealand Listener* 54 (No. 1400, 5 August): 67.
- Anon. 1967. The tuataras of New Zealand. *NAC Airline Review* 6: 6–7.
- Anon. 1979. Lizard was a puzzle (New Zealand 100 years ago from Herald files). *New Zealand Herald*, Auckland, 20 April, p. 8.
- Anon. 1982. Tuataras take passage (New Zealand 100 years ago from Herald files). *New Zealand Herald*, Auckland, 9 February, p. 8.
- Anon. 1996. Unusual find off Poor Knights. *Northern Advocate*, Whangarei, 16 January, p. 1.
- Anon. 2006. The flight of the tuatara. *Forest and Bird* No. 319: 16.
- Apesteguía, S. 2007. La evolución de los lepidosaurios. *Investigación y Ciencia* April: 54–63.
- Arnold, E. N. 1984. Variation in the cloacal and hemipenial muscles of lizards and its bearing on their relationships. *Symposium of the Zoological Society, London* 52: 47–85.
- Ashley, J. 1902. Notes on the breeding habits of the tuatara. *Transactions and Proceedings of the New Zealand Institute* 34: 580.
- Atkinson, I. A. E. 1968. An ecological reconnaissance of Coppermine Island, Hen and Chickens Group. *New Zealand Journal of Botany* 6: 285–294.
- Austin, W. A. 1962. Tuatara (*Sphenodon punctatus*) in captivity. *International Zoo Yearbook* 4: 124–125.

- Bage, F. 1912. On the histological structure of the retina of the lateral eyes of *Sphenodon punctatus*, with special reference to the sense-cells. *Quarterly Journal of Microscopical Science* 57: 305–328 + plates 27–29.
- Bain, R. 1951. The four immortals. *Scientific Monthly* 73: 274.
- Baird, I. L. 1970. The anatomy of the reptilian ear. In: Gans, C. and Parsons, T. S. (eds). *Biology of the Reptilia. Vol. 2. Morphology B*. Academic Press, London, pp. 193–275.
- Baker, R. 1991. *Tuatara: a resource for sixth and seventh form biology*. Ministry of Education, Wellington. 60 p.
- Barwick, R. E. 1982. Observations on active thermoregulation in the tuatara, *Sphenodon punctatus* (Reptilia: Rhynchocephalia). In: Newman, D. G. (ed.). *New Zealand Herpetology*. New Zealand Wildlife Service Occasional Publication No. 2, Wellington, pp. 225–236.
- Batchelor, A. 1913. The tuatara lizard. *Evening Post*, Wellington, 11 June, p. 7.
- Baur, G. 1886a. The ribs of *Sphenodon* (*Hatteria*). *American Naturalist* 20: 979–981.
- Baur, G. 1886b. Die zwei Centralia im Carpus von *Sphenodon* (*Hatteria*) und die Wirbel von *Sphenodon* und *Gecko verticellatus* Laur. (*G. verus*, Gray). *Zoologischer Anzeiger* 9: 188–190.
- Baur, G. 1891. The lower jaw of *Sphenodon*. *American Naturalist* 25: 489–490.
- Baur, G. 1896. Das Gebiss von *Sphenodon* (*Hatteria*) und einige Bemerkungen über Prof. Rud. Burckhardt's Arbeit über das Gebiss der Sauropsiden. *Anatomischer Anzeiger* 11: 436–439.
- Bayer, F. 1884. Über die Extremitäten einer jungen *Hatteria*. *Sitzungsberichte der kaiserlichen Akademie der Wissenschaften in Wien* 90: 237–245 + 1 Tafel.
- Beattie, J. H. 1994. *Traditional lifeways of the southern Maori: the Otago University Museum Ethnological Project, 1920*. Anderson, A. (ed.). University of Otago Press and Otago Museum, Dunedin. 636 p.
- Bell, B. D., Daugherty, C. H., Hay, J. M. and Hitchmough, R. A. 2004. Species identification of allopatric populations with conflicting datasets: a Cook Strait islands case study and round-table discussion. In: Abstracts of papers presented at the 10th Biennial Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Whakatane, New Zealand, 31 January–2 February 2003. *New Zealand Journal of Zoology* 31: 101.
- Bellairs, A., d'A. 1949. The anterior brain-case and interorbital septum of Sauropsida, with a consideration of the origin of snakes. *Journal of the Linnean Society of London* 41: 482–512 + plates 9–11.
- Bellairs, A., d'A. 1969. *The life of reptiles. Vol. 1 and 2*. Weidenfeld and Nicolson, London. 282 p.
- Bellairs, A., d'A. 1984. Closing address: with comments on the organ of Jacobson and the evolution of Squamata, and on the intermandibular connection in Squamata. In: Ferguson, M. W. J. (ed.). *The structure, development and evolution of reptiles. Symposia of the Zoological Society of London No. 52*. Academic Press, London, pp. 665–683.

- Bellairs, A., d'A. and Bryant, S. V. 1985. Autotomy and regeneration in reptiles. In: Gans, C. and Billett, F. (eds). *Biology of the Reptilia. Vol. 15. Development B*. John Wiley and Sons, New York, pp. 301–410.
- Benham, W. B. 1899. The development of the tuatara. *Nature* 60: 79–80.
- Benham [W. B.]. 1918. The tuatara. In: *Fildes Cuttings #639*. Beaglehole Collection, Victoria University of Wellington Library, p. 61.
- Bennett, K., Ragg, J. and Childerhouse, S. 1993. *Construction of a database for toe-clipped tuatara (Sphenodon punctatus) on Stephens Island*. University of Otago Wildlife Management Report No. 33. University of Otago, Dunedin. 25 p.
- Benton, M. J. 1986. The demise of a living fossil? *Nature* 323: 762.
- Berg, J. 1894. Zur Kenntnis der Brückenechse. *Zoologischer Garten Frankfurt am Main* 32: 102–105, 146–150.
- Besson, A. A. 2009. *Effects of cool temperature on egg incubation, thermoregulation and physiological performance of tuatara (Sphenodon punctatus): implications for conservation programmes*. Unpublished PhD thesis, University of Otago, Dunedin. 165 p.
- Besson, A. A. and Cree, A. 2010. A cold-adapted reptile becomes a more effective thermoregulator in a thermally challenging environment. *Oecologia* 163: 571–581.
- Besson, A. A. and Cree, A. 2011. Integrating physiology into conservation: an approach to help guide translocations of a rare reptile in a warming environment. *Animal Conservation* 14: 28–37.
- Besson, A. A., Thierry, A., Boros, E., Allen, K., Bradley, S., Norrie, C. and Cree, A. 2009. Evidence of food chemical discrimination in tuatara (*O. Rhychocephalia*): comparison with a gekkotan lizard (*O. Squamata*). *Journal of Herpetology* 43: 124–131.
- Besson, A. A., Nelson, N. J., Nottingham, C. M. and Cree, A. 2012. Is cool egg incubation temperature a limiting factor for the translocation of tuatara to southern New Zealand? *New Zealand Journal of Ecology* 36: 90–99.
- Besson, A. A., Thierry, A., Boros, E., Allen, K., Bradley, S., Norrie, C. and Cree, A. 2009. Evidence of food chemical discrimination in tuatara (*O. Rhychocephalia*): comparison with a gekkotan lizard (*O. Squamata*). *Journal of Herpetology* 43: 124–131.
- Best, E. 1909. Maori forest lore: being some account of native forest lore and woodcraft, as also of many myths, rites, customs, and superstitions connected with the flora and fauna of the Tuhoe or Ure-wera District. Part II. *Transactions and Proceedings of the New Zealand Institute* 41: 231–285.
- Best, E. 1923. Notes on the occurrence of the lizard in Maori carvings, and various myths and superstitions connected with lizards. *New Zealand Journal of Science and Technology* 5: 321–335.
- Birchard, G. F., Nelson, N. J. and Daugherty, C. H. 2006. A circadian rhythm in oxygen consumption rate in juvenile tuatara (*Sphenodon punctatus*). *New Zealand Journal of Zoology* 33: 185–188.

- Blair, T. 1998. *The significance of dietary n-3 fatty acids to captive and wild tuatara (Sphenodon)*. Unpublished MSc thesis, University of Otago, Dunedin. 92 p.
- Blair, T., Cree, A., Grimmond, N. M. and Skeaff, C. M. 1997. Growth, oxygen consumption, and lipid metabolism in captive juvenile tuatara (*Sphenodon punctatus*) on two different diets. In: Abstracts of papers presented at the 7th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Kaikoura, New Zealand, 31 January–2 February 1997. *New Zealand Journal of Zoology* 24: 324–325.
- Blair, T. A., Cree, A. and Skeaff, C. M. 1999. Plasma fatty acid composition and lipid concentrations in tuatara (*Sphenodon punctatus punctatus*) from a rat-free and a rat-inhabited island. In: Abstracts of papers presented at the 8th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Great Barrier Island, New Zealand, 5–7 February 1999. *New Zealand Journal of Zoology* 26: 256.
- Blair, T. A., Cree, A. and Skeaff, C. M. 2000a. Plasma fatty acids, triacylglycerol and cholesterol of the tuatara (*Sphenodon punctatus punctatus*) from islands differing in the presence of rats and the abundance of seabirds. *Journal of Zoology, London* 252: 463–472.
- Blair, T. A., Cree, A., Skeaff, C. M. and Grimmond, N. M. 2000b. Physiological effects of a fish oil supplement on captive juvenile tuatara (*Sphenodon punctatus*). *Physiological and Biochemical Zoology* 73: 177–191.
- Blanchard, B. 1988. The breeding of tuataras in the wild and in captivity in New Zealand. *Thylacinus* 13: 17–24.
- Blanchard, B. 1991. Future plans for the captive breeding of tuatara. In: Abstracts of papers presented at the 3rd Annual Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Whitianga, Coromandel Peninsula, 28–30 November 1990. *New Zealand Journal of Zoology* 18: 343.
- Blanchard, B. 2002. *Tuatara (Sphenodon) in captivity*. Unpublished MSc thesis, Victoria University of Wellington, Wellington. 141 p.
- Blanchard, B. and the Tuatara Recovery Group. 2002. *Tuatara captive management plan and husbandry manual*. Threatened Species Occasional Publication 21. Department of Conservation, Wellington. 75 p.
- Blanchard, F. C. 1935. ‘Living fossils’ walk on well-nigh inaccessible rocky islands off the coast of New Zealand. *National Geographic Magazine* 67: 649–662.
- Boardman, W. and Blanchard, B. 2006. Biology, captive management, and medical care of tuatara. In: Mader, D. R. (ed.). *Reptile medicine and surgery*. Saunders Elsevier, St. Louis, pp. 1008–1012.
- Boardman, W. S. J. and Sibley, M. D. 1991. The captive management, diseases and veterinary care of tuatara. In: *Proceedings of the American Association of Zoo Veterinarians*. Calgary, pp. 159–166.

- Body, D. R. 1985. The egg-lipid composition of the 'living fossil' reptile tuatara (*Sphenodon punctatus*). *Experientia* 41: 1055–1057.
- Body, D. R. and Newman, D. G. 1989. The lipid composition of liver, lung and adipose tissues from tuatara (*Sphenodon punctatus*) (Reptilia: Sphenodontia). *Comparative Biochemistry and Physiology* 93B: 223–227.
- Bogert, C. M. 1953a. Body temperatures of the tuatara under natural conditions. *Zoologica* 38: 63–64.
- Bogert, C. M. 1953b. The tuatara: why is it a lone survivor? *Scientific Monthly* 76: 163–170.
- Booth, D. T. and Thompson, M. B. 1991. A comparison of reptilian eggs with those of megapode birds. In: Deeming, D. C. and Ferguson, M. W. J. (eds). *Egg incubation: its effects on embryonic development in birds and reptiles*. Cambridge University Press, Cambridge, UK, pp. 325–344.
- Boulenger, G. A. 1891. On British remains of *Homæosaurus*, with remarks on the classification of the Rhynchocephalia. *Proceedings of the Zoological Society of London* 1891: 167–172.
- Bradshaw, S. D., Owen, F. J. and Saint Girons, H. 1988. Seasonal changes in plasma sex steroid levels in the male tuatara, *Sphenodon punctatus*, from Stephens Island, New Zealand. *General and Comparative Endocrinology* 70: 460–465.
- Brattstrom, B. H. 1965. Body temperatures of reptiles. *American Midland Naturalist* 73: 376–422.
- Braun-Elwert, C. 2009. *Tuatara and their living fossil label*. Unpublished MSciComm thesis, University of Otago, Dunedin. 39 p.
- Bredeweg, E. M. and Nelson, N. J. 2010. *Sphenodon punctatus* (Tuatara). Frugivory. *Herpetological Review* 41: 211–212.
- Brittain, T. 1988. An investigation of the functioning of the two major haemoglobins of the *Sphenodon* using fast reaction kinetic methods. *Biochemical Journal* 251: 771–776.
- Brittain, T. 1991. Cooperativity and allosteric regulation in non-mammalian vertebrate haemoglobins. *Comparative Biochemistry and Physiology* 99B: 731–740.
- Broom, R. 1906. On the organ of Jacobson in *Sphenodon*. *Journal of the Linnean Society of London* 29: 414–420 + plates 41–42.
- Brown, D. [2000]. *Stephens Island: ark of the light*. Derek Brown, [Havelock]. 248 p.
- Brown, M. A., Cree, A., Chambers, G. K. and Newton, J. D. 1989. Techniques for detecting vitellogenesis in the tuatara *Sphenodon punctatus*. *New Zealand Journal of Zoology* 16: 25–35.
- Brown, M. A., Cree, A., Chambers, G. K., Newton, J. D. and Cockrem, J. F. 1991a. Monitoring of plasma constituents during the natural vitellogenic cycle of tuatara, *Sphenodon punctatus*. In: Abstracts of papers presented at the 3rd Annual Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Whitianga, Coromandel Peninsula, 28–30 November 1990. *New Zealand Journal of Zoology* 18: 343.
- Brown, M. A., Cree, A., Chambers, G. K., Newton, J. D. and Cockrem, J. F. 1991b. Variation in

- plasma constituents during the natural vitellogenic cycle of tuatara, *Sphenodon punctatus*. *Comparative Biochemistry and Physiology* 100B: 705–710.
- Brown, M. A., Cree, A., Daugherty, C. H., Dawkins, B. P. and Chambers, G. K. 1994. Plasma concentrations of vitellogenin and sex steroids in female tuatara (*Sphenodon punctatus punctatus*) from northern New Zealand. *General and Comparative Endocrinology* 95: 201–212.
- Brown, M. A., Carne, A., Daugherty, C. H. and Chambers, G. K. 1995. Identification of a 130-kDa albumin in tuatara (*Sphenodon*) and detection of a novel albumin polymorphism. *Biochemical Genetics* 33: 189–204.
- Brown, M. A., Carne, A. and Chambers, G. K. 1996. Identification and partial characterization of α_2 -macroglobulin from the tuatara (*Sphenodon punctatus*). *Comparative Biochemistry and Physiology* 133B: 731–736.
- Brown, M. A., Carne, A. and Chambers, G. K. 1997a. Purification, partial characterization and peptide sequences of vitellogenin from a reptile, the tuatara (*Sphenodon punctatus*). *Comparative Biochemistry and Physiology* 117B: 159–168.
- Brown, M. A., Chambers, G. K. and Licht, P. 1997b. Purification and partial amino acid sequences of two distinct albumins from turtle plasma. *Comparative Biochemistry and Physiology* 118B: 367–374.
- Browne, C. M. 2005. *The use of dogs to detect New Zealand reptile scents*. Unpublished MSc thesis, Massey University, Palmerston North. 153 p.
- Buller, W. 1871. A list of the lizards inhabiting New Zealand, with descriptions. *Transactions and Proceedings of the New Zealand Institute* 3: 4–11.
- Buller, W. L. 1877. Notes on the tuatara lizard (*Sphenodon punctatum*), with a description of a supposed new species. *Transactions and Proceedings of the New Zealand Institute* 9: 317–325.
- Buller, W. L. 1878. Notice of a new variety of tuatara lizard (*Sphenodon*) from East Cape Island. *Transactions and Proceedings of the New Zealand Institute* 10: 220–221.
- Buller, W. L. 1879. Further notes on the habits of the tuatara lizard. *Transactions and Proceedings of the New Zealand Institute* 11: 349–351.
- Buller, W. L. 1888. *A history of the birds of New Zealand*. [Illustrated by J.G. Keulemans]. Vol. 1 and 2. 2nd edn. The author for the subscribers, London. 250 p., 359 p.
- Buller, W. L. 1893. Further notes on the birds of New Zealand. *Transactions and Proceedings of the New Zealand Institute* 25: 63–88.
- Buller, W. L. 1895. Illustrations of Darwinism; or, the avifauna of New Zealand considered in relation to the fundamental law of descent with modification. *Transactions and Proceedings of the New Zealand Institute* 27: 75–104.
- Buller, W. L. 1896. Notes on New Zealand ornithology, with an exhibition of specimens.

- Transactions and Proceedings of the New Zealand Institute* 28: 326–367.
- Burgess, T. L., Gartrell, B. D. and Blanchard, B. 2009. A survey of the husbandry of captive tuatara (*Sphenodon* spp.) in relation to factors implicated in nutritional secondary hyperparathyroidism. *New Zealand Veterinary Journal* 57: 378–382.
- Burnham, D. K., Keall, S. N., Nelson, N. J. and Daugherty, C. H. 2005. T cell function in tuatara (*Sphenodon punctatus*). *Comparative Immunology, Microbiology and Infectious Diseases* 28: 213–222.
- Burnham, D. K., Keall, S. N., Nelson, N. J. and Daugherty, C. H. 2006. Effects of sampling date, gender, and tick burden on peripheral blood cells of captive and wild tuatara (*Sphenodon punctatus*). *New Zealand Journal of Zoology* 33: 241–248.
- Burrows, C. J., McSaveney, M. J., Scarlett, R. J. and Turnbull, B. 1984. Late Holocene forest horizons and a *Dinornis* moa from an earthflow on North Dean, North Canterbury. *Records of the Canterbury Museum* 10: 1–8.
- Burton, M. 1954. *Living fossils*. Thames and Hudson, London. 282 p.
- Busch, C. H. 1898. Beitrag zur Kenntniss der Gaumenbildung bei den Reptilien. *Zoologische Jahrbücher, Abteilung für Anatomie und Ontogenie der Tiere* 11: 441–500 + Tafeln 34–40.
- Byerly, T. C. 1925a. Note on the partial regeneration of the caudal region of *Sphenodon punctatum*. *Anatomical Record* 30: 61–66.
- Byerly, T. C. 1925b. The myology of *Sphenodon punctatum*. *University of Iowa Studies in Natural History* 11: 3–51 + plates I–IV.
- Cairney, J. 1926a. The pallial commissures in *Sphenodon punctatum*. *Anatomical Record* 32: 203.
- Cairney, J. 1926b. A general survey of the forebrain of *Sphenodon punctatum*. *Journal of Comparative Neurology* 42: 255–348.
- Carden, S. M. 2005. The pineal eye of the tuatara. *Survey of Ophthalmology* 50: 291–292.
- Carmichael, C. K. and Gillingham, J. C. 2004. Thermoconformers or thermoregulators: is the tuatara (*Sphenodon punctatus*) truly a maladapted living fossil or a result of non-squamate lepidosaurian adaptation to cold climates? *Ohio Journal of Science* 104: A32–A33 (abstract).
- Carmichael, C. K., Gillingham, J. C. and Keall, S. N. 1989. Feeding ecology of the tuatara (*Sphenodon punctatus*) on Stephens Island based on niche diversification. In: Abstracts of papers presented at the 2nd Annual Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Middlemarch, Otago, 2–5 December 1988. *New Zealand Journal of Zoology* 16: 269.
- Cartland, L. and Grimmond, N. M. 1991. Aspects of growth and changes in oxygen consumption during digestion in juvenile tuatara, *Sphenodon punctatus*. In: Abstracts of papers presented at the 3rd Annual Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Whitianga, Coromandel Peninsula, 28–30 November 1990. *New Zealand Journal of Zoology* 18: 344.

- Cartland, L. K. and Grimmond, N. M. 1994. The effect of temperature on the metabolism of juvenile tuatara, *Sphenodon punctatus*. *New Zealand Journal of Zoology* 21: 373–378.
- Cartland, L. K., Cree, A., Grimmond, N. M., Sutherland, W. H. F. and Skeaff, C. M. 1993. Plasma cholesterol and triacylglycerol concentrations in wild and captive tuatara, *Sphenodon punctatus*. In: Abstracts of papers presented at the 4th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Invercargill, New Zealand, 27–29 November 1992. *New Zealand Journal of Zoology* 20: 127.
- Cartland, L. K., Cree, A., Sutherland, W. H. F., Grimmond, N. M. and Skeaff, C. M. 1994. Plasma concentrations of total cholesterol and triacylglycerol in wild and captive juvenile tuatara (*Sphenodon punctatus*). *New Zealand Journal of Zoology* 21: 399–406.
- Cartland-Shaw, L. K. 1996. *Lipids and fatty acids in the plasma and diets of wild and captive tuatara (Sphenodon punctatus)*. Unpublished MSc thesis, University of Otago, Dunedin. 102 p.
- Cartland-Shaw, L., Cree, A., Skeaff, C. M. and Grimmond, N. M. 1995. Fatty acid composition of plasma and selected dietary items of captive and wild juvenile tuatara (*Sphenodon punctatus*). *New Zealand Journal of Zoology* 22: 403.
- Cartland-Shaw, L. K., Cree, A., Skeaff, C. M. and Grimmond, N. M. 1998. Differences in dietary and plasma fatty acids between wild and captive populations of a rare reptile (tuatara, *Sphenodon punctatus*). *Journal of Comparative Physiology B* 168: 569–580.
- Cassey, P. 1997. *Estimating animal abundance: an assessment of distance sampling techniques for New Zealand populations*. Unpublished MSc thesis, University of Auckland, Auckland. 123 p.
- Cassey, P. and Ussher, G. T. 1999. Estimating abundance of tuatara. *Biological Conservation* 88: 361–366.
- Castanet, J. 1983. La squelettochronologie: une méthode de choix pour déterminer l'âge de *Sphenodon punctatus* (Reptilia, Lepidosauria, Rhynchocephalia). *Société Zoologique de France* 108: 678–679.
- Castanet, J. 1994. Age estimation and longevity in reptiles. *Gerontology* 40: 174–192.
- Castanet, J., Newman, D. G. and Saint Girons, H. 1988. Skeletochronological data on the growth, age, and population structure of the tuatara, *Sphenodon punctatus*, on Stephens and Lady Alice Islands, New Zealand. *Herpetologica* 44: 25–37.
- Cawston, F. G. 1946. The fused teeth of *Sphenodon*. *South African Dental Journal* 20: 344.
- Chabaud, A. G. and Dollfus, R. P. 1966. *Hatterianema hollandei* n. g., n. sp., nématode hétérakide parasite de Rhynchocephale. *Bulletin du Muséum National D'Histoire Naturelle* 37: 1041–1045.
- Chambers, G. K. and MacAvoy, E. S. 2000. Microsatellites: consensus and controversy. *Comparative Biochemistry and Physiology B* 126: 455–476.
- Chorlton, R. 1977. Tuataras are living fossils. *Forest and Bird* No. 204: 40–43.

- Christensen, K. 1927. The morphology of the brain of *Sphenodon*. *University of Iowa Studies in Natural History* 12: 1–29.
- Christmas, E., Coddington, E. and Cree, A. 1996. *A database for toe-clipped tuatara (Sphenodon punctatus) on Stephens Island (Takapourewa)*. University of Otago Wildlife Management Report No. 77. Dunedin. 126 p.
- Churton, H. 1845. *Letters from Wanganui, New Zealand*. E. Churton, London. 42 p.
- Clark, G. R., Petchey, P., McGlone, M. S. and Bristow, P. 1996. Faunal and floral remains from Earnsclough Cave, Central Otago, New Zealand. *Journal of the Royal Society of New Zealand* 26: 363–380.
- Clemance, M. 1996. Bleeding tuatara and other small creatures. *Kokako* 3(1): 3.
- Cockrem, J. F., Firth, B. T., Cree, A. and Eynon, G. R. 1988. Plasma melatonin in the tuatara (*Sphenodon punctatus*): diurnal rhythm and response to light and heat. *Proceedings of the Endocrine Society of Australia*: S10 (abstract).
- Colenso, W. 1844. An account of some enormous fossil bones of an unknown species of the Class Aves, lately discovered in New Zealand. *Annals and Magazine of Natural History* 14: 81–96.
- Colenso, W. 1846. An account of some enormous fossil bones, of an unknown species of the Class Aves, lately discovered in New Zealand. *Tasmanian Journal of Natural Science* 2: 81–107.
- Colenso, W. 1879. Contributions towards a better knowledge of the Maori race. *Transactions and Proceedings of the New Zealand Institute* 11: 77–106.
- Colenso, W. 1880. Notes and observations on the animal economy and habits of one of our New Zealand lizards, supposed to be a new species of *Naultinus*. *Transactions and Proceedings of the New Zealand Institute* 12: 251–264.
- Colenso, W. 1886. Notes on the bones of a species of *Sphenodon*, (*S. diversum*, Col.) apparently distinct from the species already known. *Transactions and Proceedings of the New Zealand Institute* 18: 118–123.
- Cooper Jr, W. E., Ferguson, G. W. and Habegger, J. J. 2001. Responses to animal and plant chemicals by several iguanian insectivores and the tuatara, *Sphenodon punctatus*. *Journal of Herpetology* 35: 255–263.
- Cope, E. D. 1870. On the homologies of some of the cranial bones of the Reptilia and on the systematic arrangement of the class. *Proceedings of the American Association for the Advancement of Science* 19: 194–247.
- Corkery, I. 2012. *Interspecific interactions: a case study using the tuatara–fairy prion association*. Unpublished PhD thesis. Victoria University of Wellington, Wellington, 159 p.
- Corkery, I., Nelson, N. J. and Bell, B. D. 2010. Does sharing a burrow with a seabird increase a tuatara’s fitness? In: Abstracts of papers presented at the Second Meeting of Australasian Societies for Herpetology (Society for Research on Amphibians and Reptiles in New Zealand and the Australia Society for Herpetologists), Massey University, Auckland, New Zealand,

- 20–22 February 2009. *New Zealand Journal of Zoology* 37: 69.
- Cowan, J. 1908. *New Zealand, or Ao-teä-roa (the Long Bright World): its wealth and resources, scenery, travel-routes, spas, and sport*. Government Printer, Wellington. 279 p.
- Craig, J. L. 1986. The effects of kiore on other fauna. *New Zealand Department of Lands and Survey Information Series* 16: 75–83.
- Craigie, E. H. 1941. Vascularization in the brains of Reptiles. II. The cerebral capillary bed in *Sphenodon punctatum*. *Journal of Morphology* 69: 263–277.
- Cree, A. 1994. Low annual reproductive output in female reptiles from New Zealand. *New Zealand Journal of Zoology* 21: 351–372.
- Cree, A. 2002. Tuatara. In: Halliday, T. and Adler, K. (eds). *The new encyclopedia of reptiles and amphibians*. Oxford University Press, Oxford, pp. 210–211.
- Cree, A. 2005. Discovered by science: an analysis of the first 200 years of research on tuatara (*Sphenodon*). In: Abstracts of papers presented at the 11th Biennial Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Springbrook National Park, south-east Queensland, Australia, 7–11 February 2005. *New Zealand Journal of Zoology* 32: 221.
- Cree, A. and Butler, D. 1993. *Tuatara recovery plan (Sphenodon spp.)*. Threatened Species Recovery Plan No. 9. Department of Conservation, Wellington. 71 p.
- Cree, A. and Daugherty, C. 1990a. Tuatara sheds its fossil image. *New Scientist* No. 1739: 22–26.
- Cree, A. and Daugherty, C. H. 1990b. Captive breeding of the New Zealand tuatara: past results and future directions. In: Dresser, B. L., Reece, R. W. and Maruska, E. J. (eds). *Proceedings of the Fifth World Conference on Breeding Endangered Species in Captivity*. Cincinnati Zoo and Botanical Garden, Cincinnati, Ohio, pp. 477–491.
- Cree, A. and Guillette Jr, L. J. 1988. Effects of arginine vasotocin and prostaglandin F_{2α} on oviposition or parturition in two New Zealand reptiles: the tuatara and the common gecko. *Proceedings of the Endocrine Society of Australia*: S11 (abstract).
- Cree, A. and Thompson, M. B. 1988. Unravelling the mysteries of tuatara reproduction. *Forest and Bird* No. 250: 14–16.
- Cree, A. and Tyrrell, C. L. 2001. Patterns of corticosterone secretion in tuatara (*Sphenodon*): comparisons with other reptiles, and applications in conservation management. In: Goos, H. J. T., Rastogi, R. K., Vaudry, H. and Pierantoni, R. (eds). *Perspective in Comparative Endocrinology: Unity and Diversity (14th International Congress of Comparative Endocrinology, Sorrento, Italy, May 26–30, 2001)*. Monduzzi Editore, Bologna, pp. 433–441.
- Cree, A., Thompson, M. B., Guillette Jr, L. J., Hay, J. M. and McIntyre, M. E. 1989. Embryonic development of tuatara in forested and open habitats on Stephens Island, New Zealand. In: Abstracts of papers presented at the 2nd Annual Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Middlemarch, Otago, 2–5 December 1988. *New Zealand Journal of Zoology* 16: 270.

- Cree, A., Guillette Jr, L. J., Cockrem, J. F., Brown, M. A. and Chambers, G. K. 1990a. Absence of daily cycles in plasma sex steroids in male and female tuatara (*Sphenodon punctatus*), and the effects of acute capture stress on females. *General and Comparative Endocrinology* 79: 103–113.
- Cree, A., Guillette Jr, L. J., Cockrem, J. F. and Joss, J. M. P. 1990b. Effects of capture and temperature stresses on plasma steroid concentrations in male tuatara (*Sphenodon punctatus*). *Journal of Experimental Zoology* 253: 38–46.
- Cree, A., Cockrem, J. F., Brown, M. A., Watson, P. R., Guillette Jr, L. J., Newman, D. G. and Chambers, G. K. 1991a. Laparoscopy, radiography, and blood analyses as techniques for identifying the reproductive condition of female tuatara. *Herpetologica* 47: 238–249.
- Cree, A., Daugherty, C. H., Schafer, S. F. and Brown, D. 1991b. Nesting and clutch size of tuatara (*Sphenodon guntheri*) on North Brother Island, Cook Strait. *Tuatara* 31: 9–16.
- Cree, A., Guillette Jr, L. J., Brown, M. A., Chambers, G. K., Cockrem, J. F. and Newton, J. D. 1991c. Slow estradiol-induced vitellogenesis in the tuatara, *Sphenodon punctatus*. *Physiological Zoology* 64: 1234–1251.
- Cree, A., Guillette Jr, L. J. and Cockrem, J. F. 1991d. Identification of female tuatara in ovulatory condition using plasma sex steroid concentrations. *New Zealand Journal of Zoology* 18: 421–426.
- Cree, A., Hay, J. M. and Daugherty, C. H. 1991e. Rescue operations for tuatara on Stanley, Red Mercury, and Cuvier Islands. In: Abstracts of papers presented at the 3rd Annual Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Whitianga, Coromandel Peninsula, 28–30 November 1990. *New Zealand Journal of Zoology* 18: 344.
- Cree, A., Hay, J. M., Daugherty, C. and Keall, S. N. 1991f. Effects of constant and variable incubation temperatures on growth of tuatara (*Sphenodon guntheri*) embryos. In Sinclair, J. D. (ed.). *Proceedings of the Physiological Society of New Zealand. Vol. 11*. Dunedin, p. 59 (abstract).
- Cree, A., Cockrem, J. F. and Guillette Jr, L. J. 1992. Reproductive cycles of male and female tuatara (*Sphenodon punctatus*) on Stephens Island, New Zealand. *Journal of Zoology, London* 226: 199–217.
- Cree, A., Daugherty, C. H., Towns, D. R. and Blanchard, B. 1994. The contribution of captive management to the conservation of tuatara (*Sphenodon*) in New Zealand. In: Murphy, J. B., Adler, K. and Collins, J. T. (eds). *Captive management and conservation of amphibians and reptiles*. Society for the Study of Amphibians and Reptiles, Ithaca, New York, pp. 377–385.
- Cree, A., Daugherty, C. H. and Hay, J. M. 1995a. Reproduction of a rare New Zealand reptile, the tuatara *Sphenodon punctatus*, on rat-free and rat-inhabited islands. *Conservation Biology* 9: 373–383.
- Cree, A., Thompson, M. B. and Daugherty, C. H. 1995b. Tuatara sex determination. *Nature* 375: 543.

- Cree, A., Fraser, J. R., Cartland-Shaw, L. and Lyon, G. L. 1995c. Contribution of seabirds to the diet of wild tuatara (*Sphenodon punctatus*). In: Abstracts of papers presented at the 6th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Manaia, Whangarei, New Zealand, 10–12 February 1995. *New Zealand Journal of Zoology* 22: 403.
- Cree, A., Guillette Jr, L. J. and Reader, K. 1996. Eggshell formation during prolonged gravidity of the tuatara *Sphenodon punctatus*. *Journal of Morphology* 230: 129–144.
- Cree, A., Lyon, G. L., Cartland-Shaw, L. and Tyrrell, C. 1999. Stable carbon isotope ratios as indicators of marine versus terrestrial inputs to the diets of wild and captive tuatara (*Sphenodon punctatus*). *New Zealand Journal of Zoology* 26: 243–253.
- Crook, I. G. 1970. Tuatara. *Wildlife: A Review* 2: 16–19.
- Crook, I. G. 1973a. The tuatara, *Sphenodon punctatus* Gray, on islands with and without populations of the Polynesian rat, *Rattus exulans* (Peale). *Proceedings of the New Zealand Ecological Society* 20: 115–120.
- Crook, I. G. 1973b. Tuatara and the Polynesian rat. *Wildlife: A Review* 4: 47–48.
- Crook, I. G. 1974. Are tuataras dependent on petrels? *Wildlife: A Review* 5: 43–46.
- Crook, I. G. 1975. The tuatara. In: Kuschel, G. (ed.). *Biogeography and ecology in New Zealand*. Junk, The Hague, pp. 331–352.
- Crook, I. G. 1976. Archaic elements and a host of immigrants. *Australian Natural History* 18: 362–365.
- Curtis, N., Jones, M. E. H., Evans, S. E., O’Higgins, P. and Fagan, M. J. 2009. Visualising muscle anatomy using three-dimensional computer models – an example using the head and neck muscles of *Sphenodon*. *Palaeontologia Electronica* 12.3.7T: 18 p.
- Curtis, N., Jones, M. E. H., Evans, S. E., Shi, J., O’Higgins, P. and Fagan, M. J. 2010a. Predicting muscle activation patterns from motion and anatomy: modelling the skull of *Sphenodon* (Diapsida: Rhynchocephalia). *Journal of The Royal Society Interface* 7: 153–161.
- Curtis, N., Jones, M. E. H., Lappin, A. K., O’Higgins, P. O., Evans, S. E. and Fagan, M. J. 2010b. Comparison between *in vivo* and theoretical bite performance: using multi-body modelling to predict muscle and bite forces in a reptile skull. *Journal of Biomechanics* 43: 2804–2809.
- Curtis, N., Jones, M. E. H., Evans, S. E., O’Higgins, P. O. and Fagan, M. J. 2010c. Feedback control from the jaw joints during biting: an investigation of the reptile *Sphenodon* using multibody modelling. *Journal of Biomechanics* 43: 3132–3137.
- Curtis, N., Jones, M. E. H., Shi, J., O’Higgins, P., Evans, S. E. and Fagan, M. J. 2011. Functional relationships between skull form and feeding mechanics in *Sphenodon*, and implications for diapsid skull development. *PLOS ONE* 6 (e29804): 1–11.
- Curtis, N., Jones, M. E. H., Evans, S. E., O’Higgins, P. and Fagan, M. J. 2013. Cranial sutures work collectively to distribute strain throughout the reptile skull. *Journal of the Royal Society*

- Interface* 10 (20130442): 1–6 [Correction at 20130584: 1]
- Daiber, M. 1920. Das Bauchrippensystem von *Sphenodon (Hatteria) punctatus* Gray. *Anatomischer Anzeiger* 53: 371–382 + Tafeln 1–2.
- Daugherty, C., Cree, A. and Schneider, M. 1990a. Tuatara: a survivor from the dinosaur age. *New Zealand Geographic* 6: 66–86.
- Daugherty, C. H., Cree, A., Hay, J. M. and Thompson, M. B. 1990b. Neglected taxonomy and continuing extinctions of tuatara (*Sphenodon*). *Nature* 347: 177–179.
- Daugherty, C. H., Patterson, G. B. and Hay, J. M. 1991. Techniques for identification of new species of skinks and tuatara. *New Zealand Journal of Zoology* 18: 344.
- Daugherty, C. H., Towns, D. R., Cree, A. and Hay, J. M. 1992. The roles of legal protection versus intervention in conserving the New Zealand tuatara, *Sphenodon*. In: Willison, J. H. M., Bondrup-Nielsen, S., Drysdale, C., Herman, T. B., Munro, N. W. P. and Pollock, T. L. (eds). *Developments in landscape management and urban planning, 7. Science and the management of protected areas*. Elsevier, Amsterdam, pp. 247–259.
- Daugherty, C. H., Patterson, G. B. and Hitchmough, R. A. 1994. Taxonomic and conservation review of the New Zealand herpetofauna. *New Zealand Journal of Zoology* 21: 317–323.
- Daugherty, C. H., Gaze, P., Keall, S. N. and Nelson, N. J. 1999. Conservation of tuatara in the Cook Strait region. In: Abstracts of papers presented at the 8th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Great Barrier Island, New Zealand, 5–7 February 1999. *New Zealand Journal of Zoology* 26: 256–257.
- Daugherty, C. H., Keall, S. N., Nelson, N. J., Hay, J. M., Petrove, I., Smuts-Kennedy, J. C. and Whitaker, T. H. 2001. Conservation of tuatara on Hauturu (Little Barrier Island). In: Abstracts of papers presented at the 9th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, St Arnaud, Nelson Lakes, New Zealand, 2–4 February 2001. *New Zealand Journal of Zoology* 28: 362–363.
- Dawbin, W. H. 1949. The tuatara. *Tuatara* 2: 91–96.
- Dawbin, W. H. I. 1953. Fauna of Stephens Island. *Forest and Bird* No. 108: 8–9.
- Dawbin, W. H. 1962a. The tuatara in its natural habitat. *Endeavour* 21: 16–24.
- Dawbin, W. H. 1962b. The beginnings and early development of Tuatara. *Tuatara* 10: 2–4.
- Dawbin, W. H. 1974. Rhynchocephalia. *New Encyclopedia Britannica* 15: 824.
- Dawbin, W. H. 1982a. The tuatara *Sphenodon punctatus*: aspects of life history, growth and longevity. In: Newman, D. G. (ed.). *New Zealand Herpetology*. New Zealand Wildlife Service Occasional Publication No. 2, Wellington, pp. 237–250.
- Dawbin, W. H. 1982b. The tuatara *Sphenodon punctatus* (Reptilia: Rhynchocephalia): a review. In: Newman, D. G. (ed.). *New Zealand Herpetology*. New Zealand Wildlife Service Occasional Publication No. 2, Wellington, pp. 149–181.
- Dawbin, W. H. and Hill, L. 1969. Uric acid and urea excretion in the tuatara *Sphenodon punctatus*.

- Nature* 224: 1325–1326.
- De Beer, G. R. 1949. Caruncles and egg-teeth: some aspects of the concept of homology. *Proceedings of the Linnean Society of London* 161: 218–224 + plates 13–15.
- Dendy, A. 1898. Summary of the principal results obtained in a study of the development of the tuatara (*Sphenodon punctatum*). *Proceedings of the Royal Society of London* 63: 440–443.
- Dendy, A. 1899a. The hatching of tuatara eggs. *Nature* 59: 340.
- Dendy, A. 1899b. Outlines of the development of the tuatara, *Sphenodon (Hatteria) punctatus*. *Quarterly Journal of Microscopical Science* 42: 1–87 + plates 1–10.
- Dendy, A. 1899c. On the development of the parietal eye and adjacent organs in *Sphenodon (Hatteria)*. *Quarterly Journal of Microscopical Science* 42: 111–153 + plates 11–13.
- Dendy, A. 1899d. The life-history of the tuatara (*Sphenodon punctatum*). *Transactions and Proceedings of the New Zealand Institute* 31: 249–255.
- Dendy, A. 1909. The intracranial vascular system of *Sphenodon*. *Philosophical Transactions of the Royal Society of London B* 200: 403–426 + plate 31.
- Dendy, A. 1910. On the structure, development, and morphological interpretation of the pineal organs and adjacent parts of the brain in the tuatara (*Sphenodon punctatus*). *Anatomischer Anzeiger* 37: 453–462.
- Dendy, A. 1911. On the structure, development and morphological interpretation of the pineal organs and adjacent parts of the brain in the tuatara (*Sphenodon punctatus*). *Philosophical Transactions of the Royal Society of London B* 201: 227–331 + plates 19–31.
- Desser, S. S. 1978. Morphological, cytochemical, and biochemical observations on the blood of the tuatara, *Sphenodon punctatus*. *New Zealand Journal of Zoology* 5: 503–508.
- Desser, S. S. 1979. Haematological observations on a hibernating tuatara, *Sphenodon punctatus*. *New Zealand Journal of Zoology* 6: 77–78.
- Desser, S. S. and Weller, I. 1979a. Ultrastructural observations on the erythrocytes and thrombocytes of the tuatara, *Sphenodon punctatus* (Gray). *Tissue and Cell* 11: 717–726.
- Desser, S. S. and Weller, I. 1979b. Ultrastructural observations on the granular leucocytes of the tuatara, *Sphenodon punctatus* (Gray). *Tissue and Cell* 11: 703–715.
- Di-Poï, N., Montoya-Burgos, J. I., Miller, H., Pourquié, O., Milinkovitch, M. C. and Duboule, D. 2010. Changes in Hox genes' structure and function during the evolution of the squamate body plan. *Nature* 464: 99–103.
- Dieffenbach, E. 1843. *Travels in New Zealand; with contributions to the geography, geology, botany, and natural history of that country. Vol. I and II.* John Murray, London. 431 p., 396 p.
- Djorovic, A., Keall, S. N., Mitchell, N. J. and Daugherty, C. H. 2001. Morphometric variability and fluctuating asymmetry: tools for assessing population variability in tuatara. In: Abstracts of papers presented at the 9th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, St Arnaud, Nelson Lakes, New Zealand, 2–4 February 2001. *New*

- Zealand Journal of Zoology* 28: 363–364.
- Donne, T. E. 1942. On friendly terms with the tuatara. *Natural History* 50: 100–102.
- Dowling, H. 1961. Tuatara (*Sphenodon punctatus*) at New York Zoo. *International Zoo Yearbook* 3: 83–84.
- Downes, T. W. 1937. Maori mentality regarding the lizard and *taniwha* in the Whanganui river area. *Journal of the Polynesian Society* 46: 206–224.
- Drummond, J. 1905. A very conservative party. A New Zealander who would not progress. Must end his days soon. *Lyttelton Times*, Lyttelton, 9 December, p. 10.
- Drummond, J. 1911. A queer catch: or, an aristocrat in a democratic land. *The Boy's Own Paper* 33 (1910–1911): 9.
- Drummond, J. 1917. Nature notes. *Auckland Weekly News*, Auckland, 30 August, p. 15.
- Drummond, J. and Hutton, F. W. 1902. *Nature in New Zealand*. Whitcombe and Tombs Ltd., Christchurch. 188 p.
- Dujsebayaeva, T. N., Ananjeva, N. B. and Iohanssen, L. K. 2004. Reduced state of skin sense organs in *Sphenodon punctatus* (Rhynchocephalia: Sphenodontidae) and its phylogenetical value. *Russian Journal of Herpetology* 11: 106–110.
- Dumbleton, L. J. 1943. A new tick from the tuatara (*Sphenodon punctatus*). *New Zealand Journal of Science and Technology* 24: 185B–190B.
- Durward, A. 1930. The cell masses in the forebrain of *Sphenodon punctatum*. *Journal of Anatomy* 65: 8–44.
- East, K. T., East, M. R. and Daugherty, C. H. 1995. Ecological restoration and habitat relationships of reptiles on Stephens Island, New Zealand. *New Zealand Journal of Zoology* 22: 249–261.
- Edinger, T. 1930. *Homoeosaurus* und *Sphenodon*. *Bericht Senckenbergische Naturforschende Gesellschaft (Natur und Museum)* 60: 20.
- Engelbert, V. E. and Young, A. D. 1970. Erythropoiesis in peripheral blood of tuatara (*Sphenodon punctatus*) and turtle (*Malaclemys terrapin*). *Canadian Journal of Zoology* 48: 209–212.
- Evans, S. E. 2003. At the feet of the dinosaurs: the early history and radiation of lizards. *Biological Review* 78: 513–551.
- Evans, S. E. 2008. The skull of lizards and tuatara. In: Gans, C., Gaunt, A. S. and Adler, K. (eds). *Biology of the Reptilia. Vol. 20. Morphology H. The skull of Lepidosauria*. Society for the Study of Amphibians and Reptiles, Ithaca, NY. Contributions to Herpetology vol. 23, pp. 1–347.
- Falla, R. A. 1935. The tuatara (*Sphenodon punctatus*). *Bulletin of the Auckland Zoological Society* No. 2: 3–5 + 4 plates.
- Falla, R. A. 1937. A 'living fossil' of New Zealand: the crested, pineal-eyed tuatara. *Illustrated London News*, London, pp. 340–341.
- Falla, R. A. 1960. The fauna of New Zealand. In: McLintock, A. H. (ed.). *A descriptive atlas of New*

- Zealand. R.E. Owen, Government Printer, Wellington, pp. 25–27.
- Farlow, J. D. 1975. Observations on a captive tuatara (*Sphenodon punctatum*). *Journal of Herpetology* 9: 353–355.
- Farrell, A. P., Gamperl, A. K. and Francis, E. T. B. 1998. Comparative aspects of heart morphology. In: Gans, C. and Gaunt, A. S. (eds). *Biology of the Reptilia. Vol. 19. Morphology G. Visceral organs*. Society for the Study of Amphibians and Reptiles. Contributions to Herpetology Vol. 14, Ithaca, New York, pp. 375–424.
- Fawcett, J. D. and Smith, H. M. 1970. An overlooked synonym of *Sphenodon punctatus*, the New Zealand tuatara. *Journal of Herpetology* 4: 89–91.
- Finch, M. O. and Lambert, D. M. 1996. Kinship and genetic divergence among populations of tuatara *Sphenodon punctatus* as revealed by minisatellite DNA profiling. *Molecular Ecology* 5: 651–658.
- Firth, B. T., Cockrem, J. F., Cree, A. and Eynon, G. R. 1988. Plasma melatonin in the tuatara (*Sphenodon punctatus*): diurnal rhythm and response to light and heat. *Chinese Journal of Physiological Science* 4: 237 (abstract).
- Firth, B. T., Thompson, M. B., Kennaway, D. J. and Belan, I. 1989. Thermal sensitivity of reptilian melatonin rhythms: ‘cold’ tuatara vs. ‘warm’ skink. *American Journal of Physiology* 256: R1160–R1163.
- Fisk, A. 1949. Modification of the ectoderm in *Sphenodon*. *Nature* 164: 617–618.
- Fisk, A. and Tribe, M. 1949. The development of the amnion and chorion of reptiles. *Proceedings of the Zoological Society of London* 119: 83–114 + plates I–V.
- Fisk, A. and Tribe, M. 1951. The glomerular border in the development of the vertebrate kidney. *Nature* 167: 266–268.
- Flachsbarth, B., Fritzsche, M., Weldon, P. J. and Schulz, S. 2009. Composition of the cloacal gland secretion of tuatara, *Sphenodon punctatus*. *Chemistry and Biodiversity* 6: 1–37.
- Flower, S. S. 1937. Further notes on the duration of life in animals. III. Reptiles. *Proceedings of the Zoological Society Series A* 1: 1–37.
- Fraser, J. and Cree, A. 1993. Diets of wild adult and juvenile tuatara (*Sphenodon punctatus*) on Stephens Island. In: Abstracts of papers presented at the 4th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Invercargill, New Zealand, 27–29 November 1992. *New Zealand Journal of Zoology* 20: 128.
- Fraser, J. R. 1993. *Diets of wild tuatara (Sphenodon punctatus) on Stephens Island*. Unpublished MSc thesis, University of Otago, Dunedin. 71 p.
- Freeman, A. B. and Freeman, A. N. D. 1995. Rediscovery of an original type specimen of *Sphenodon guntheri* Buller in the Canterbury Museum, New Zealand. *New Zealand Journal of Zoology* 22: 357–359.
- Fritsch, G., Jaroffke, D. and Hildebrandt, T. B. 2002. Ultrasonography of a living fossil: the tuatara

- (*Sphenodon punctatus*). Contributions to the 4th International Symposium on Physiology and Behaviour of Wild and Zoo Animals. *Advances in Ethology* 37: 133 (abstract).
- Gabe, M. and Saint Girons, H. 1964a. *Contribution a l'histologie de Sphenodon punctatus Gray*. Éditions du Centre National de la Recherche Scientifique, Paris. 149 p.
- Gabe, M. and Saint-Girons, H. 1964b. Histologie. Particularités histologiques de la glande surrénale chez *Sphenodon punctatus* Gray (Reptile Rhynchocephale). *Comptes Rendus de l'Academie des Sciences Paris* 258: 3559–3562.
- Gabe, M. and Saint-Girons, H. 1964c. Histophysiologie. Le troisième type de contact hypothalamo-hypophysaire proximal: l'éminence médiane de *Sphenodon punctatus*. *Comptes Rendus de l'Academie des Sciences Paris* 259: 2136–2139.
- Gabe, M. and Saint Girons, H. 1965a. Contribution a la morphologie comparée du cloaque et des glandes épidermoïdes de la région cloacale chez les lépidosauriens. *Mémoires du Muséum National d'Histoire Naturelle, Paris Série A Zoologie* 33: 149–292 + 15 plates.
- Gabe, M. and Saint Girons, H. 1965b. Histologie de *Sphenodon punctatus*. *Copeia* 1965: 393–394.
- Gabe, M. and Saint Girons, H. 1967. Données histologiques sur le tégument et les glandes épidermoïdes céphaliques des Lépidosauriens. *Acta Anatomica* 67: 571–594.
- Gabe, M. and Saint Girons, H. 1969. Données histologiques sur les glandes salivaires des lépidosauriens. *Mémoires du Muséum National d'Histoire Naturelle, Series A* 58: 1–112.
- Gabe, M. and Saint Girons, H. 1972. Contribution à l'histologie de l'estomac des *Lépidosauriens* (Reptiles): a contribution to the histological study of the stomach in Lepidosauria (Reptilia). *Zoologische Jahrbücher Abteilung für Anatomie und Ontogenie der Tiere* 89: 579–599.
- Gabe, M. and Saint Girons, H. 1973. Contribution à l'histologie des glandes nasales externes de *Sphenodon punctatus* Gray (Reptilia, Rhynchocephalia). *Acta Anatomica* 84: 452–464.
- Gabe, M. and Saint Girons, H. 1976. Contribution a la morphologie comparée des fosses nasales et de leurs annexes chez les lépidosoriens. *Mémoires du Muséum National D'Histoire Naturelle Série A* 98: 1–87.
- Gadow, H. 1887. II. Remarks on the cloaca and on the copulatory organs of the Amniota. *Philosophical Transactions of the Royal Society of London Series B* 178: 5–37 + plates 2–5.
- Gans, C. 1965. 'Histologie de *Sphenodon punctatus*' by M. Gabe and H. Saint Girons. *Copeia* 1965: 393–394.
- Gans, C. 1984. Apologia. *Journal of Herpetology* 18: 499.
- Gans, C. 1991. Survival test. *Nature* 349: 112.
- Gans, C. 1983. Is *Sphenodon punctatus* a maladapted relict? In: Rhodin, A. G. J. and Miyata, K. (eds). *Advances in herpetology and evolutionary biology*. Museum of Comparative Zoology, Cambridge, Massachusetts, pp. 613–620.
- Gans, C. and Clark, B. D. 1978. Air flow in reptilian ventilation. *Comparative Biochemistry and Physiology* 60A: 453–457.

- Gans, C. and Wever, E. G. 1976. Ear and hearing in *Sphenodon punctatus*. *Proceedings of the National Academy of Sciences USA* 73: 4244–4246
- Gans, C., Gillingham, J. C. and Clark, D. L. 1984. Courtship, mating and male combat in tuatara, *Sphenodon punctatus*. *Journal of Herpetology* 18: 194–197.
- Gartrell, B. D., Jillings, E., Adlington, B. A., Mack, H. and Nelson, N. J. 2006. Health screening for a translocation of captive-reared tuatara (*Sphenodon punctatus*) to an island refuge. *New Zealand Veterinary Journal* 54: 344–349.
- Gartrell, B. D., Youl, J. M., King, C. M., Bolotovski, I., McDonald, W. L. and Nelson, N. J. 2007. Failure to detect *Salmonella* species in a population of wild tuatara (*Sphenodon punctatus*). *New Zealand Veterinary Journal* 55: 134–136.
- Gaston, A. J. and Scofield, P. 1995. Birds and tuatara on North Brother Island, Cook Strait, New Zealand. *Notornis* 42: 27–41.
- Gauthier, J. A., Kearney, M., Maisano, J. A., Rieppel, O. and Behlke, A. D. B. 2012. Assembling the squamate tree of life: perspectives from the phenotype and the fossil record. *Bulletin of the Peabody Museum of Natural History* 53: 3–308.
- Gaze, P. 2001. *Tuatara recovery plan 2001–2011*. Threatened Species Recovery Plan No. 47. Department of Conservation, Wellington. 37 p.
- Gill, B. 2010a. New Zealand museum collections as a resource for herpetology. In: Abstracts of papers presented at the Second Meeting of Australasian Societies for Herpetology (Society for Research on Amphibians and Reptiles in New Zealand and the Australia Society for Herpetologists), Massey University, Auckland, New Zealand, 20–22 February 2009. *New Zealand Journal of Zoology* 37: 75–76.
- Gill, B. J. 2010b. The Cheeseman–Giglioli correspondence, and museum exchanges between Auckland and Florence, 1877–1904. *Archives of Natural History* 37: 131–149.
- Gill, B. J. and Coory, R. 1999. Herpetological collections in New Zealand museums. *Herpetological Review* 30: 133–134.
- Gillingham, J. C. and Miller, T. J. 1991. Reproductive ethology of the tuatara *Sphenodon punctatus*: applications in captive breeding. *International Zoo Yearbook* 30: 157–164.
- Gillingham, J. C., Carmichael, C. and Miller, T. 1995. Social behavior of the tuatara, *Sphenodon punctatus*. *Herpetological Monographs* 9: 5–16.
- Gisi, J. 1908. Das Gehirn von *Hatteria punctata*. *Zoologische Jahrbücher* 25: 71–236.
- Godfrey, S. S., Bull, C. M. and Nelson, N. J. 2008. Seasonal and spatial dynamics of ectoparasite infestation of a threatened reptile, the tuatara (*Sphenodon punctatus*). *Medical and Veterinary Entomology* 22: 374–385.
- Godfrey, S. S., Moore, J. A., Nelson, N. J. and Bull, C. M. 2010a. Social network structure and parasite infection patterns in a territorial reptile, the tuatara (*Sphenodon punctatus*). *International Journal for Parasitology* 40: 1575–1585.

- Godfrey, S. S., Moore, J. A., Nelson, N. J. and Bull, C. M. 2010b. Unravelling causality from correlations: revealing the impacts of endemic ectoparasites on a protected species (tuatara). *Parasitology* 137: 275–286.
- Godfrey, S. S., Nelson, N. J. and Bull, C. M. 2011. Ecology and dynamics of the blood parasite, *Hepatozoon tuatarae* (Apicomplexa), in tuatara (*Sphenodon punctatus*) on Stephens Island, New Zealand. *Journal of Wildlife Diseases* 47: 126–139.
- Goellner, R. 1984. The tuatarium, an off-exhibit, climate-controlled chamber at the St. Louis Zoological Park. In: Bels, V. L. and Van den Sande, A. P. (eds). *Maintenance and reproduction of reptiles in captivity*. Acta Zoologica et Pathologica Antverpiensia No. 78, pp. 319–324.
- Goellner, R. 1985. The little dragon of New Zealand. *Animal Kingdom* 88: 38–43.
- Goetz, B. G. R. and Thomas, B. W. 1994. Use of annual growth and activity patterns to assess management procedures for captive tuatara (*Sphenodon punctatus*). *New Zealand Journal of Zoology* 21: 473–485.
- Goetz, B. G. R. and Thomas, B. W. 1997. The effect of introduced stress on growth rates in captive tuatara (*Sphenodon punctatus*). In: Abstracts of papers presented at the 7th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Kaikoura, New Zealand, 31 January–2 February 1997. *New Zealand Journal of Zoology* 24: 327.
- Goff, M. L., Loomis, R. B. and Ainsworth, R. 1987. Redescription of *Neotrombicula naultini* (Dumbleton, 1947) and descriptions of two new species of chiggers from New Zealand (Acari: Trombiculidae). *New Zealand Journal of Zoology* 14: 385–390.
- Gold-Smith, E. C. 1885. Description of Mayor Island. *Transactions and Proceedings of the New Zealand Institute* 17: 417–427.
- Goodlet, W. [c. 1922]. A New Zealand reptile: notes on the tuatara. In: *Scrapbook of newspaper clippings relating to New Zealand, c. 1894–1948. Variae* 34. Hocken Library, Dunedin, p. 16.
- Goold, M. 1997. Tuatara – Ill-thrift post oxytocin induced egg-laying. *Kokako* 4(3): 3–4.
- Goold, M. and Smits, B. 1995a. Ill thrift and wasting in a tuatara. *Kokako* 2(2): 4–5.
- Goold, M. and Smits, B. 1995b. Tuatara: some normal haematological and chemistry values. *Kokako* 2(2): 5.
- Gorniak, G. C., Rosenberg, H. I. and Gans, C. 1982. Mastication in the tuatara, *Sphenodon punctatus* (Reptilia: Rhynchocephalia): structure and activity of the motor system. *Journal of Morphology* 171: 321–353.
- Gorr, T. A., Mable, B. K. and Kleinschmidt, T. 1998. Phylogenetic analysis of reptilian hemoglobins: trees, rates, and divergences. *Journal of Molecular Evolution* 47: 471–485.
- Grant-Mackie, J. A. and Scarlett, R. J. 1973. Last inter-glacial sequence, Oamaru. In: *IX INQUA Congress, Guidebook for Excursion 7*. Christchurch, New Zealand, pp. 87–99.
- Gray, J. E. 1831. Note on a peculiar structure in the head of an agama. *Zoological Miscellany* 1: 13–

14.

- Gray, J. E. 1842. Descriptions of two hitherto unrecorded species of reptiles from New Zealand; presented to the British Museum by Dr. Dieffenbach. *Zoological Miscellany* 4: 72.
- Gray, J. E. 1843. Fauna of New Zealand: materials towards a fauna of New Zealand, Auckland Island, and Chatham Islands. In: Dieffenbach, E. (ed.). *Travels in New Zealand; with contributions to the geography, geology, botany, and natural history of that country. Vol. II.* John Murray, London, pp. 177–296.
- Gray, J. E. 1845a. Reptiles. In: Richardson, J. and Gray, J. E. (eds). *The zoology of the voyage of H.M.S. Erebus & Terror, under the command of Captain Sir James Clark Ross, R.N., F.R.S., during the years 1839 to 1843. Vol. II.* E. W. Janson, London, pp. 1–8, + plates 1–4, 8–9, 12–14 and 20.
- Gray, J. E. 1845b. *Catalogue of the specimens of lizards in the collection of the British Museum.* Edward Newman, London. 289 p.
- Gray, J. E. 1867. *The lizards of Australia and New Zealand in the collection of the British Museum.* Bernard Quaritch, London. 7 p. + 18 plates.
- Gray, J. E. 1869. *Sphenodon, Hatteria, and Rhynchocephalus.* *Annals and Magazine of Natural History Series* 3: 167–168.
- Green, B. 1989. Water and energy turnover of wild tuataras (*Sphenodon punctatus*). In: Halliday, T., Baker, J. and Hosie, L. (eds). *First World Congress of Herpetology 11–19 September 1989.* Open University, Canterbury, UK, p. R5 (abstract).
- Greer, A. E. 1986. On the absence of visceral fat bodies within a major lineage of scincid lizards. *Journal of Herpetology* 20: 267–269.
- Grigg, G. C. and Simons, J. R. 1972. Preferential distribution of left and right auricular blood into the arterial arches of the tuatara, *Sphenodon punctatus*. *Journal of Zoology, London* 167: 481–486.
- Grimmond, N. M. and Cartland, L. 1991. The effect of temperature and body size on the metabolism of juvenile tuatara, *Sphenodon punctatus*. In: Abstracts of papers presented at the 3rd Annual Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Whitianga, Coromandel Peninsula, 28–30 November 1990. *New Zealand Journal of Zoology* 18: 344–345.
- Grodziński, Z. 1980. The yolk of the tuatara *Sphenodon punctatus* Gray (*Reptilia*). *Acta Biologica Cracoviensia* 22: 65–71 + plates 9–10.
- Guillette Jr, L. J. and Cree, A. 1997. Morphological changes in the corpus luteum of tuatara (*Sphenodon punctatus*) during gravidity. *Journal of Morphology* 232: 79–91.
- Guillette Jr, L. J., Cree, A. and Gross, T. S. 1990. Endocrinology of oviposition in the tuatara (*Sphenodon punctatus*): I. Plasma steroids and prostaglandins during natural nesting. *Biology of Reproduction* 43: 285–289.

- Guillette Jr, L. J., Propper, C. R., Cree, A. and Dores, R. M. 1991a. Endocrinology of oviposition in the tuatara (*Sphenodon punctatus*): II. Plasma arginine vasotocin concentrations during natural nesting. *Comparative Biochemistry and Physiology* 100A: 819–822.
- Guillette Jr, L. J., Dubois, D. H. and Cree, A. 1991b. Prostaglandins, oviducal function, and parturient behavior in nonmammalian vertebrates. *American Journal of Physiology* 260: R854–R861.
- Gunther, A. E. 1975. *A century of zoology at the British Museum through the lives of two keepers 1815–1914*. Dawsons, London. 533 p.
- Günther, A. 1867. Contribution to the anatomy of *Hatteria* (*Rhynchocephalus*, Owen). *Philosophical Transactions of the Royal Society of London* 157: 595–629 + plates XXVI–XXVIII.
- Günther, A. 1875. A list of the saurians of Australia and New Zealand. In: Richardson, J. and Gray, J. E. (eds). *The zoology of the voyage of H.M.S. Erebus & Terror, under the command of Captain Sir James Clark Ross, R.N., F.R.S., during the years 1839 to 1843. Vol. II*. E. W. Janson, London, pp. p. 9–19, plus plates 5–7, 10, 11 and 15–19.
- Haas, G. 1973. Muscles of the jaws and associated structures in the Rhynchocephalia and Squamata. In: Gans, C. and Parsons, T. S. (eds). *Biology of the Reptilia. Vol. 4. Morphology D*. Academic Press, New York, pp. 285–490.
- Haines, R. W. 1939. The structure of the epiphyses in *Sphenodon* and the primitive form of secondary centre. *Journal of Anatomy* 74: 80–90.
- Hall, M. I. 2008. Comparative analysis of the size and shape of the lizard eye. *Zoology* 111: 62–75.
- Hamilton, A. 1898. On rock pictographs in South Canterbury. *Transactions of the New Zealand Institute* 30: 24–29 + plates I–X.
- Hard, G. 1954. Notes on Reptilia of islands visited by Field Club 1953–1954. *Tane* 6: 143–146.
- Hare, J. R., Whitworth, E. and Cree, A. 2007. Correct orientation of a hand-held infrared thermometer is important for accurate measurement of body temperatures in small lizards and tuatara. *Herpetological Review* 38: 311–315.
- Harper, P. C. 1983. Biology of the Buller's Shearwater (*Puffinus bulleri*) at the Poor Knights Islands, New Zealand. *Notornis* 30: 299–318.
- Harrison, H. S. 1901a. *Hatteria punctata*, its dentitions and its incubation period. *Anatomischer Anzeiger* 20: 145–158.
- Harrison, H. S. 1901b. The development and succession of teeth in *Hatteria punctata*. *Quarterly Journal of Microscopical Science (New Series)* 44: 161–213 + plates 10–12.
- Hart, N. H. 1969. The bulbus cordis and its septa in *Sphenodon punctatus*. *Journal of Morphology* 129: 369–374.
- Hartley, J. 1965. Notes on tuataras *Sphenodon punctatus* in captivity. *International Zoo Yearbook* 5: 170–171.
- Hatteria [pseudonym]. 1942. Out of the Mesozoic: the tuatara (*Sphenodon punctatus*). *Forest and Bird* No. 65: 3.

- Hay, J. M. 1998. *A genetic perspective of evolution and biogeography in some New Zealand reptiles*. Unpublished PhD thesis. Pennsylvania State University, Pennsylvania. 180 p.
- Hay, J. M. and Lambert, D. M. 2008. Microsatellite DNA loci identify individuals and provide no evidence for multiple paternity in wild tuatara (*Sphenodon*: Reptilia). *Conservation Genetics* 9: 1039–1043.
- Hay, J. M., Daugherty, C. H. and Cree, A. 1991. Taxonomic tangles in tuatara (*Sphenodon* spp.). In: Abstracts of papers presented at the 3rd Annual Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Whitianga, Coromandel Peninsula, 28–30 November 1990. *New Zealand Journal of Zoology* 18: 345.
- Hay, J. M., Sarre, S., Daugherty, C. H., Cree, A. and Maxson, L. 2001. Molecular phylogeography of tuatara (*Sphenodon*). In: Abstracts of papers presented at the 9th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, St Arnaud, Nelson Lakes, New Zealand, 2–4 February 2001. *New Zealand Journal of Zoology* 28: 365.
- Hay, J. M., Daugherty, C. H., Cree, A. and Maxson, L. R. 2003. Low genetic divergence obscures phylogeny among populations of *Sphenodon*, remnant of an ancient reptile lineage. *Molecular Phylogenetics and Evolution* 29: 1–19.
- Hay, J. M., Sarre, S. D. and Daugherty, C. H. 2004. Nuclear mitochondrial pseudogenes as molecular outgroups for phylogenetically isolated taxa: a case study in *Sphenodon*. *Heredity* 93: 468–475.
- Hay, J. M., Subramanian, S., Millar, C. D., Mohandesan, E. and Lambert, D. M. 2008. Rapid molecular evolution in a living fossil. *Trends in Genetics* 24: 106–109.
- Hay, J. M., Sarre, S. D., Lambert, D. M., Allendorf, F. W. and Daugherty, C. H. 2010. Genetic diversity and taxonomy: a reassessment of species designation in tuatara (*Sphenodon*: Reptilia). *Conservation Genetics* 11: 1063–1081.
- Hazley, L. C. 1982. *Tuatara*. Southland Museum and Art Gallery, Invercargill. 24 p.
- Hazley, L. C. 1995. Annual breeding of captive tuatara (*Sphenodon punctatus*). In: Abstracts of papers presented at the 6th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Manaia, Whangarei, New Zealand, 10–12 February 1995. *New Zealand Journal of Zoology* 22: 404.
- Hazley, L. 1998. Ultraviolet light and life. *New Zealand GP: New Zealand's Medical Newspaper* 44 (Wed 8 April): 16.
- Healy, J. M. and Jamieson, B. G. M. 1992. Ultrastructure of the spermatozoon of the tuatara (*Sphenodon punctatus*) and its relevance to the relationships of the Sphenodontida. *Philosophical Transactions of the Royal Society of London B* 335: 193–205.
- Healy, J. M. and Jamieson, B. G. M. 1994. The ultrastructure of spermatogenesis and epididymal spermatozoa of the tuatara *Sphenodon punctatus* (Sphenodontida, Amniota). *Philosophical Transactions of the Royal Society of London B* 344: 187–199.

- Heath, A. C. G. 2006. A reptile tick, *Aponomma sphenodonti* Dumbleton (Acari: Ixodidae), parasitic on the tuatara, *Sphenodon punctatus* Gray (Reptilia: Rhynchocephalia), in New Zealand: observations on its life history and biology. *Systematic and Applied Acarology* 11: 3–12.
- Heatwole, H. 1982. Panting and other responses to high temperature in the tuatara, *Sphenodon punctatus*. In: Newman, D. G. (ed.). *New Zealand Herpetology*. New Zealand Wildlife Service Occasional Publication No. 2, Wellington, pp. 251–269.
- Hedges, S. B. and Poling, L. L. 1999. A molecular phylogeny of reptiles. *Science* 283: 998–1001.
- Heidsieck, E. 1929. Der Bau der Skeletteile der freien Extremitäten bei den Reptilien. 2. Mitteilung: *Hatteria (Sphenodon) punctata*. *Gegenbaurs Morphologisches Jahrbuch* 62: 319–354.
- Hemming, F. 1957. Opinion 455. Validation under the Plenary Powers (a) of the emendation to ‘*Sphenodon*’ of the generic name ‘*Sphaenodon*’ Gray (J.E.), 1831, and (b) of the family-group name ‘Sphenodontidae’ Cope, 1870 (Class Reptilia). *Opinions and Declarations Rendered by the International Commission on Zoological Nomenclature* 15: 381–392.
- Herbert, J. D. K., Godfrey, S. S., Bull, C. M. and Menz, R. I. 2010. Developmental stages and molecular phylogeny of *Hepatozoon tuatarae*, a parasite infecting the New Zealand tuatara, *Sphenodon punctatus* and the tick, *Amblyomma sphenodonti*. *International Journal of Parasitology* 40: 1311–1315.
- Herrel, A., Schaerlaeken, V., Moravec, J. and Ross, C. F. 2009. Sexual shape dimorphism in tuatara. *Copeia* 2009: 727–731.
- Herrel, A., Moore, J. A., Bredeweg, E. M. and Nelson, N. J. 2010. Sexual dimorphism, body size, bite force and male mating success in tuatara. *Biological Journal of the Linnean Society* 100: 287–292.
- Hill, L. 1982. Water relations and excretion of the tuatara, *Sphenodon punctatus*: an overview. In: Newman, D. G. (ed.). *New Zealand herpetology*. New Zealand Wildlife Service Occasional Publication No. 2, Wellington, pp. 183–203.
- Hill, L. and Dawbin, W. H. 1969. Nitrogen excretion in the tuatara, *Sphenodon punctatus*. *Comparative Biochemistry and Physiology* 31: 453–468.
- Hill, R. P. 1951. Last of an ancient race. *Discovery* 12: 181–183.
- Hindenach, J. C. R. 1931. The cerebellum of *Sphenodon punctatum*. *Journal of Anatomy* 65: 283–318.
- Hines, M. 1923. The development of the telencephalon in *Sphenodon punctatum*. *Journal of Comparative Neurology* 35: 483–537.
- Hitchmough, R. A., Hoare, J. M., Jamieson, H., Newman, D., Tocher, M. D., Anderson, P. J., Lettink, M. and Whitaker, A. H. 2010. Conservation status of New Zealand reptiles, 2009. *New Zealand Journal of Zoology* 37: 203–224.
- Hitchmough, R., Anderson, P., Barr, B., Monks, J., Lettink, M., Reardon, J., Tocher, M. and Whitaker, T. 2013. *Conservation status of New Zealand reptiles, 2012*. New Zealand Threat

- Classification Series 2. Department of Conservation, Wellington. 16 p.
- Hoare, J. M., Pledger, S. A., Keall, S. N., Nelson, N. J., Mitchell, N. J. and Daugherty, C. H. 2004. A long-term trend of decline in body condition of the Brothers Island tuatara, *Sphenodon guntheri*. In: Abstracts of papers presented at the 10th Biennial Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Whakatane, New Zealand, 31 January–2 February 2003. *New Zealand Journal of Zoology* 31: 104.
- Hoare, J. M., Pledger, S., Keall, S. N., Nelson, N. J., Mitchell, N. J. and Daugherty, C. H. 2006. Conservation implications of a long-term decline in body condition of the Brothers Island tuatara (*Sphenodon guntheri*). *Animal Conservation* 9: 456–462.
- Hochstetter, F. 1892. Über die Arterien des Darmkanals der Saurier. *Morphologisches Jahrbuch* 26: 213–273 + Tafeln V–VII.
- Hoessle, C. 1969. Display of tuatara *Sphenodon punctatus* at St Louis Zoological Park. *International Zoo Yearbook* 9: 32–33.
- Hoffstetter, R. and Gasc, J.-P. 1969. Vertebrae and ribs of modern reptiles. In: Gans, C., Bellairs, A. d. A. and Parsons, T. S. (eds). *Biology of the Reptilia. Vol. 1. Morphology A*. Academic Press, London, pp. 201–310.
- Hogben, L. T. 1921. A preliminary account of the spermatogenesis of *Sphenodon*. *Journal of the Royal Microscopical Society*: 341–352.
- Holdaway, R. N. and Worthy, T. H. 1997. A reappraisal of the late Quaternary fossil vertebrates of Pyramid Valley Swamp, North Canterbury, New Zealand. *New Zealand Journal of Zoology* 24: 69–121.
- Holmes, B. 1995. Second chance for the tuatara. *New Scientist* 148: 8.
- Hongi, H. (Stowell, H. M.). 1922. The tuatara: why the Maori dreads it. In: *Variae* 34. [Scrapbook of newspaper clippings relating to New Zealand, c. 1894–1948.] Hocken Library, Dunedin, pp. 15–16.
- Hoppe, G. 1934. Das Geruchsorgan von *Hatteria punctata*. *Zeitschrift für Anatomie und Entwicklungsgeschichte* 102: 434–461.
- Howes, G. B. 1899. [On egg incubation and hatchlings]. *Nature* 59: 340–341.
- Howes, G. B. and Swinnerton, H. H. 1901. On the development of the skeleton of the tuatara, *Sphenodon punctatus*; with remarks on the egg, on the hatching and on the hatched young. *Transactions of the Zoological Society of London* 16: 1–86 + plates I–VI.
- Huey, R. B. and Janzen, F. J. 2008. Climate warming and environmental sex determination in tuatara: the last of the sphenodontians? *Proceedings of the Royal Society B* 275: 2181–2183.
- Humphries, E. and Jones, M. E. H. 2010. Geographic variation in the jaws of Holocene *Sphenodon* (Lepidosauria: Rhynchocephalia) demonstrated by landmark analysis. *Journal of Vertebrate Palaeontology* 30 (Suppl. 2): 108A (abstract).
- Hunter, S. A. and Alley, M. R. 2010. Colonic impaction in a juvenile tuatara, *Sphenodon punctatus*.

- Kokako* 17(2): 41, 44.
- Hutchinson Jr, F. 1898. On Maori middens at Wainui, Poverty Bay. *Transactions and Proceedings of the New Zealand Institute* 30: 533–536.
- Hutton, F. W. 1875. Notice of the Earnsclough Cave. *Transactions and Proceedings of the New Zealand Institute* 7: 138–141.
- Hutton, F. W. and Drummond, J. 1904. *The animals of New Zealand: an account of the colony's air-breathing vertebrates*. Whitcombe and Tombs, Wellington. 381 p.
- Hyde, V. 1990. Tuatara by any other name. *New Zealand Science Monthly*: 8–10.
- Internal Affairs [various dates]. *Series I*. Archives New Zealand/Te Rua Mahara o te Kāwanatanga, Wellington Office.
- Ireland, L. C. and Gans, C. 1977. Optokinetic behavior of the tuatara, *Sphenodon punctatus*. *Herpetologica* 33: 339–344.
- Jacobshagen, E. 1920. Zur Morphologie des Oberflächenreliefs der Rumpfdarmschleimhaut der Reptilien. *Jenaische Zeitschrift für Naturwissenschaft* 56: 361–430 + Tafeln 17–30.
- Jakob-Hoff, R. 1996. Pre-release health evaluations for tuatara. *Kokako* 3(2): 11.
- Jakob-Hoff, R. 1997. Shoulder swellings in tuataras. *Kokako* 4(2): 4–6.
- Jamieson, B. G. M. and Healy, J. M. 1992. The phylogenetic position of the tuatara, *Sphenodon* (Sphenodontida, Amniota), as indicated by cladistic analysis of the ultrastructure of spermatozoa. *Philosophical Transactions of the Royal Society of London B* 335: 207–219.
- Johnson, G. L. 1927. Contributions to the comparative anatomy of the reptilian and the amphibian eye, chiefly based on ophthalmological examination. *Philosophical Transactions of the Royal Society of London B* 215: 315–353 + plates 20–25.
- Johnston, P. 2010. The constrictor dorsalis musculature and basiptyergoid articulation in *Sphenodon*. *Journal of Morphology* 271: 280–292.
- Jones, J. 1993. *The tuatara*. Heinemann Education, Auckland. 24 p.
- Jones, J. and Daugherty, C. 1995. *Tuatara*. WWF-NZ, Wellington. 8 p.
- Jones, M. E. H. 2006a. *Skull evolution and functional morphology in Sphenodon and other Rhynchocephalia (Diapsida: Lepidosauria)*. University of London, London. 565 p.
- Jones, M. E. H. 2006b. Tooth diversity and function in the Rhynchocephalia (Diapsida: Lepidosauria). In: Barrett, P. M. and Evans, S. E. (eds). *Ninth International Symposium on Mesozoic Terrestrial Ecosystems and Biota*. Natural History Museum, London, pp. 55–58.
- Jones, M. E. H. 2007a. Geometric morphometric analysis of variation in *Sphenodon* ‘sub-fossil’ material. *Palaeontological Association Newsletter* 65: 95–99.
- Jones, M. E. H. 2007b. Cranial suture morphology of the lepidosaur *Sphenodon* (Diapsida: Rhynchocephalia) and implications for functional morphology. *Journal of Morphology* 268: 1090–1091.
- Jones, M. E. H. 2008. Skull shape and feeding strategy in *Sphenodon* and other Rhynchocephalia

- (Diapsida: Lepidosauria). *Journal of Morphology* 269: 945–966.
- Jones, M. E. H. 2009. Dentary tooth shape in *Sphenodon* and its fossil relatives (Diapsida: Lepidosauria: Rhynchocephalia). In: Koppe, T., Meyer, G. and Alt, K. W. (eds). *Comparative dental morphology. Frontiers in oral biology. Vol. 13*. Karger, Basel, pp. 9–15.
- Jones, M. E. H. and Cree, A. 2012. Tuatara. *Current Biology* 22: R986–987.
- Jones, M. E. H. and Lappin, A. K. 2009. Bite-force performance of the last rhynchocephalian (Lepidosauria: *Sphenodon*). *Journal of the Royal Society of New Zealand* 39: 71–83.
- Jones, M. E. H., Curtis, N., O'Higgins, P., Fagan, M. J. and Evans, S. E. 2009a. The head and neck muscles associated with feeding in *Sphenodon* (Reptilia: Lepidosauria: Rhynchocephalia). *Palaeontologia Electronica* 12.2.7A: 56 p.
- Jones, M. E. H., Tennyson, A. J. D., Worthy, J. P., Evans, S. E. and Worthy, T. H. 2009b. A sphenodontine (Rhynchocephalia) from the Miocene of New Zealand and palaeobiogeography of the tuatara (*Sphenodon*). *Proceedings of the Royal Society B* 276: 1385–1390.
- Jones, M. E. H., Curtis, N., Fagan, M. J., O'Higgins, P. and Evans, S. E. 2011. Hard tissue anatomy of the cranial joints in *Sphenodon* (Rhynchocephalia): sutures, kinesis, and skull mechanics. *Palaeontologia Electronica* 14.2.17A: 92 p.
- Jones, M. E. H., O'Higgins, P., Fagan, M. J., Evans, S. E. and Curtis, N. 2012. Shearing mechanics and the influence of a flexible symphysis during oral food processing in *Sphenodon* (Lepidosauria: Rhynchocephalia). *The Anatomical Record* 295: 1075–1091.
- Jones, P. 2002. Tuatara population boom follows rat eradication. *Forest and Bird* No. 304: 10.
- Jordan, T. W., Smith, J. N. and Vaughn, L. 1980. Benzoic acid conjugation in tuatara. *Biochemical Systematics and Ecology* 8: 101–103.
- Keall, S. N. and Daugherty, C. H. 1997. Captive incubation programmes for conservation of rare tuatara (*Sphenodon*). In: Abstracts of papers presented at the 7th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Kaikoura, New Zealand, 31 January–2 February 1997. *New Zealand Journal of Zoology* 24: 327–328.
- Keall, S. N., Nelson, N. J., Phillipot, P., Pledger, S. and Daugherty, C. H. 2001. Conservation in small places: reptiles on North Brother Island. In: Abstracts of papers presented at the 9th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, St Arnaud, Nelson Lakes, New Zealand, 2–4 February 2001. *New Zealand Journal of Zoology* 28: 367.
- Keall, S. N., Nelson, N. J. and Daugherty, C. H. 2010. Securing the future of threatened tuatara populations with artificial incubation. *Herpetological Conservation and Biology* 5: 555–562.
- Keck, W. N. 1925. Some additional observations on *Sphenodon punctatum* in captivity. *Proceedings of the Iowa Academy of Science* 32: 429–430.
- Keenan, R. D. 1932. The chromosomes of *Sphenodon punctatum*. *Journal of Anatomy* 67: 1–17 +

plates I–IV.

- Kieser, J. A., Tkatchenko, T., Dean, C., Jones, M. E. H., Duncan, W. and Nelson, N. J. 2009. Microstructure of dental hard tissues and bone in the tuatara dentary, *Sphenodon punctatus* (Diapsida: Lepidosauria: Rhynchocephalia). In: Koppe, T., Meyer, G. and Alt, K. W. (eds). *Comparative dental morphology. Frontiers of oral biology. Vol. 13*. Karger, Basel, pp. 80–85.
- Kieser, J. A., He, L.-H., Dean, M. C., Jones, M. E. H., Duncan, W. J., Swain, M. V. and Nelson, N. J. 2011. Structure and compositional characteristics of caniniform dental enamel in the tuatara *Sphenodon punctatus* (Lepidosauria: Rhynchocephalia). *New Zealand Dental Journal* 107: 44–50.
- King, F. W. and Burke, R. L. 1989. *Crocodylian, tuatara, and turtle species of the world: a taxonomic and geographic reference*. Association of Systematics Collections, Washington DC, USA. 216 p.
- Kingsley-Smith, C. 1966. The tuatara (ngarara) bearers for the models. *Historical Review (Whakatane and District Historical Society)* 14: 124–125.
- Klaatsch, H. 1892. Zur Morphologie der Mesenterialbildungen am Darmkanal der Wirbelthiere. I. Thiel. Amphibien und Reptilien. *Morphologisches Jahrbuch* 18: 385–450 + Tafel XII.
- Klutzny, S. 2002. Three-dimensional computerized reconstructions of the embryonic chondrocranium of *Sphenodon punctatus*. *Journal of Vertebrate Paleontology* 22: 75A (abstract).
- Knox, F. J. 1870. On the tuatara (*Hatteria punctata*, Gray); or great fringed lizard of New Zealand. *Transactions and Proceedings of the New Zealand Institute* 2: 17–20.
- Komocki, W. 1936. Nouvelles observations sur la désagrégation physiologique des leucocytes granuleux ainsi que sur les leucocytes du sang de *Sphenodon punctatus* Gray (*Hatteria*). *Bulletin d'Histologie Applique, Physiologie, et Pathologie* 13: 194–201.
- Komocki, W. 1938. La formation des érythrocytes dans le sang du *Sphenodon (Hatteria) punctatus* Gray. *Archives de Biologie* 49: 101–109.
- Krull, W. 1923. Observations on *Sphenodon punctatum* in captivity. *Proceedings of the Iowa Academy of Science* 30: 151–155.
- La Flamme, A. C. 2010. Toll-like receptor responses in tuatara. *New Zealand Journal of Zoology* 37: 235–242.
- Laird, M. 1950. *Haemogregarina tuatarae* sp. n., from the New Zealand rhynchocephalian *Sphenodon punctatus* (Gray). *Proceedings of the Zoological Society* 120: 529–533 + plate 1.
- Lakjer, T. 1927. Studien über die Gaumenregion bei Sauriern im Vergleich mit Anamniern und primitiven Sauropsiden. *Zoologische Jahrbücher, Abteilung für Anatomie und Ontogenie der Tiere* 49: 57–356.
- Lanfear, R. and Ho, S. Y. W. 2009. Mitochondrial evolution in tuatara. *Mitochondrial DNA* 20: 3.
- Lange, R. H. and Kilarski, W. 1986. Similarity in yolk-platelet structure of an ancient bony fish (*Acipenser*) and an ancient reptile (*Sphenodon*). *Tissue and Cell* 18: 117–124.

- Lawless, P. 1994. Teeming tuatara. *New Scientist* 142: 52.
- Lee, D. 2010. CT scanning the tuatara. *Shadows: The New Zealand Journal of Medical Radiation Technology* 53: 16–17.
- Levine, H. B. 2010. Claiming indigenous rights to culture, flora, and fauna: a contemporary case from New Zealand. *PoLAR: Political and Legal Anthropology Review* 33: 36–56.
- Lewin, R. A. 1987. To a tuatara. *Tuatara* 29: 32.
- Linklater, W. L. 2011. Territorial tuatara? – a hypothesis still to be tested. *New Zealand Journal of Ecology* 35: 308–311.
- Liu, S.-K. and King, F. W. 1971. Microsporidiosis in the tuatara. *Journal of the American Veterinary Medical Association* 159: 1578–1582.
- Lowe, C. B., Bejerano, G., Salama, S. R. and Haussler, D. 2010. Endangered species hold clues to human evolution. *Journal of Heredity* 101: 437–447.
- Lubkin, S. R. 1997. On pattern formation in reptilian dentition. *Journal of Theoretical Biology* 186: 145–157.
- Lutz, D. 2006. *Tuatara: a living fossil*. Dimi Press, Salem. 108 p.
- MacAvoy, E. S., Sainsbury, J., Wilson, C., Daugherty, C. H. and Chambers, G. K. 2001. An evaluation of microsatellite loci for use in population studies of tuatara. In: Abstracts of papers presented at the 9th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, St Arnaud, Nelson Lakes, New Zealand, 2–4 February 2001. *New Zealand Journal of Zoology* 28: 367.
- MacAvoy, E. S., McGibbon, L. M., Sainsbury, J. P., Lawrence, H., Wilson, C. A., Daugherty, C. H. and Chambers, G. K. 2007. Genetic variation in island populations of tuatara (*Sphenodon* spp) inferred from microsatellite markers. *Conservation Genetics* 8: 305–318.
- Mackay, R. S. 1956. *A bibliography of the tuatara*. Unpublished report. Alexander Turnbull Library, Wellington. 11 p.
- Maderson, P. F. A. 1968. Observations on the epidermis of the tuatara (*Sphenodon punctatus*). *Journal of Anatomy* 103: 311–320.
- Mair, W. G. 1873. Notes on Rurima Rocks. *Transactions and Proceedings of the New Zealand Institute* 5: 151–153.
- Manley, G. A. 2002. Evolution of structure and function of the hearing organ of lizards. *Journal of Neurobiology* 53: 202–211.
- Manley, G. A. and Köppl, C. 1998. Phylogenetic development of the cochlea and its innervation. *Current Opinion in Neurobiology* 8: 468–474.
- Mann, I. 1932. A demonstration of the structure of the lateral eyes of the adult *Sphenodon*. *Proceedings of the Royal Society of Medicine* 25: 834–836.
- Mann, I. 1933. Notes on the lateral eyes of *Sphenodon* with special reference to the macular region. *British Journal of Ophthalmology* 17: 1–15.

- Marchalonis, J. J., Ealey, E. H. M. and Diener, E. 1969. Immune response of the tuatara, *Sphenodon punctatum*. *Australian Journal of Experimental Biology and Medical Science* 47: 367–380.
- Markwell, T. J. 1997. Video camera count of burrow-dwelling fairy prions, sooty shearwaters, and tuatara on Takapourewa (Stephens Island), New Zealand. *New Zealand Journal of Zoology* 24: 231–237.
- Markwell, T. J. 1998. Relationship between tuatara *Sphenodon punctatus* and fairy prion *Pachyptila turtur* densities in different habitats on Takapourewa (Stephens Island), Cook Strait, New Zealand. *Marine Ornithology* 26: 81–83.
- Markwell, T. J. 1999. *Keystone species on New Zealand offshore islands: ecological relationships of seabirds, rats, reptiles and invertebrates on Cook Strait islands*. Unpublished PhD thesis, Victoria University of Wellington, Wellington. 124 p.
- May, R. M. 1990. Taxonomy as destiny. *Nature* 347: 129–130.
- McCallum, J. 1980. Reptiles of the northern Mokohinau Group. *Tane* 26: 53–59.
- McCallum, J. 1981. Reptiles of Tawhiti Rahi Island, Poor Knights Islands, New Zealand. *Tane* 27: 55–58.
- McCallum, J. and Harker, F. R. 1981. Reptiles of Cuvier Island. *Tane* 27: 17–22.
- McCallum, J. and Harker, F. R. 1982. Reptiles of Little Barrier Island. *Tane* 28: 21–27.
- McDonald, H. S. and Heath, J. E. 1971. Electrocardiographic observations on the tuatara, *Sphenodon punctatus*. *Comparative Biochemistry and Physiology* 40A: 881–892.
- McGibbon, L. M. 2003. *Genetic variation in tuatara (Sphenodon) populations, as inferred from microsatellite DNA markers*. Unpublished MSc thesis, Victoria University of Wellington, Wellington. 119 p.
- McIntyre, M. 1997. *Conservation of the tuatara*. Victoria University Press, Wellington. 24 p.
- McKenna, P. B. 2003. An annotated checklist of ecto- and endoparasites of New Zealand reptiles. *Surveillance* 30: 18–25.
- McKenzie, K. L. 2007. *Returning tuatara (Sphenodon punctatus) to the New Zealand mainland*. Unpublished MSc thesis, Victoria University of Wellington, Wellington. 82 p.
- McLeod, H. R. 1922. Tuatara at Miramar. *New Zealand Journal of Science and Technology* 5: 186.
- Meinertz, T. 1966. Eine Untersuchung über das Herz bei Tuatara, *Sphenodon (Hatteria) punctatus* Gray. *Morphologisches Jahrbuch* 108: 568–594.
- Mello, R. S. R., Fay, V., Smith, E., Hare, K. M. and Cree, A. 2011. Adjustment of juvenile tuatara (*Sphenodon punctatus*) to a cool-climate ecosanctuary. In: Abstracts of papers presented at the 14th Biennial Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Tautuku, Otago, New Zealand, 11–13 February 2011. *New Zealand Journal of Zoology* 37: 272–273.
- Mello, R. S. R., Besson, A. A., Hare, K. M., Fay, V., Smith, E. and Cree, A. 2013. Adjustment of juvenile tuatara to a cooler, southern climate: operative temperatures, emergence behaviour

- and growth rate. *New Zealand Journal of Zoology*: doi org/10.1080/03014223.2013.775167.
- Meloro, C. and Jones, M. E. H. 2012. Tooth and cranial disparity in the fossil relatives of *Sphenodon* (Rhynchocephalia) dispute the persistent 'living fossil' label. *Journal of Evolutionary Biology* 25: 2194–2209.
- Merrifield, K. 2001a. Conservation management of the Brothers' tuatara (*Sphenodon guntheri*): monitoring the translocated Matiu/Somes Island population. In: Abstracts of papers presented at the 9th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, St Arnaud, Nelson Lakes, New Zealand, 2–4 February 2001. *New Zealand Journal of Zoology* 28: 367–368.
- Merrifield, K. 2001b. *Conservation management of the Brothers Island tuatara (Sphenodon guntheri): monitoring the translocated Matiu/Somes Island population*. Unpublished MConSci thesis, Victoria University of Wellington, Wellington. 274 p.
- Mertens, R. 1955. Proposed use of the plenary powers for the purpose (a) of validating the currently accepted emendation '*Sphenodon*' of the generic name '*Sphaenodon*' Gray (J.E.), 1831 and (b) of validating the family-group name '*Sphenodontidae*' Cope, 1870 (Class Reptilia). *Bulletin of Zoological Nomenclature* 11: 139–141.
- Mertens, R. 1958. Eine lebende Tuatera oder Brückenechse. *Natur und Volk* 88: 15–21.
- Mertens, R. 1967. Erfolgreiche Behandlung einer Hautkrankheit und einer Augenverletzung bei der Tuatara (*Sphenodon punctatus*). *Salamandra* 3: 7–8.
- Mertens, R. and Wermuth, H. 1954. Die rezenten Schildkröten, Krokodile und Brückenechsen. *Zoologische Jahrbücher* 83: 1–413.
- Meyer-Rochow, V. B. 1988. Behaviour of young tuatara (*Sphenodon punctatus*) in total darkness. *Tuatara* 30: 36–38.
- Meyer-Rochow, V. B. and Teh, K. L. 1991. Visual predation by tuatara (*Sphenodon punctatus*) on the beach beetle (*Chaerodes trachyscelides*) as a selective force in the production of distinct colour morphs. *Tuatara* 31: 1–8.
- Meyer-Rochow, V. B., Wohlfahrt, S. and Ahnelt, P. K. 2005. Photoreceptor cell types in the retina of the tuatara (*Sphenodon punctatus*) have cone characteristics. *Micron* 36: 423–428.
- Middleton, D. M., La Flamme, A. C., Gartrell, B. D. and Nelson, N. J. 2011. The epidemiology of *Salmonella* in New Zealand island fauna. In: Abstracts of papers presented at the 14th Biennial Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Tautuku, Otago, New Zealand, 11–13 February 2011. *New Zealand Journal of Zoology* 38: 273.
- Milani, A. 1894. Beiträge zur Kenntniss der Reptilienlunge. I. Lacertilia. *Zoologische Jahrbücher Abteilung für Anatomie und Ontogenie der Tiere* 7: 545–592 + Tafeln 30–32.
- Millener, P. R. 1981. *The Quaternary avifauna of the North Island, New Zealand*. Vol. I and II. Unpublished PhD thesis, University of Auckland, Auckland. 897 p

- Miller, H. C. 2006. Cloacal and buccal swabs are a reliable source of DNA for microsatellite genotyping of reptiles. *Conservation Genetics* 7: 1001–1003.
- Miller, H. C., Belov, K. and Daugherty, C. H. 2005a. Characterization of MHC class II genes from an ancient reptile lineage, *Sphenodon* (tuatara). *Immunogenetics* 57: 883–891.
- Miller, H. C., Belov, K., Edwards, S. V. and Daugherty, C. H. 2005b. Unravelling the reptile MHC. In: Abstracts of papers presented at the 11th Biennial Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Springbrook National Park, south-east Queensland, Australia, 7–11 February 2005. *New Zealand Journal of Zoology* 32: 227.
- Miller, H. C., Belov, K. and Daugherty, C. H. 2006. MHC class I genes in the tuatara (*Sphenodon* spp.): evolution of the MHC in an ancient reptilian order. *Molecular Biology and Evolution* 23: 949–956.
- Miller, H. C., Andrews-Cookson, M. and Daugherty, C. H. 2007a. Two patterns of variation among MHC class I loci in tuatara (*Sphenodon punctatus*). *Journal of Heredity* 98: 666–677.
- Miller, H. C., Conrad, A. M., Barker, S. C. and Daugherty, C. H. 2007b. Distribution and phylogenetic analyses of an endangered tick, *Amblyomma sphenodonti*. *New Zealand Journal of Zoology* 34: 97–105.
- Miller, H. C., Miller, K. A. and Daugherty, C. H. 2008a. Reduced MHC variation in a threatened tuatara species. *Animal Conservation* 11: 206–214.
- Miller, H. C., Moore, J. A., Allendorf, F. W. and Daugherty, C. H. 2008b. The evolutionary rate of tuatara revisited. *Trends in Genetics* 25: 13–15.
- Miller, H. C., Moore, J. A., Nelson, N. J. and Daugherty, C. H. 2009. Influence of major histocompatibility complex genotype on mating success in a free-ranging reptile population. *Proceedings of the Royal Society B* 276: 1695–1704.
- Miller, H. C., Allendorf, F. and Daugherty, C. H. 2010. Genetic diversity and differentiation at MHC genes in island populations of tuatara (*Sphenodon* spp.). *Molecular Ecology* 19: 3894–3908.
- Miller, H. C., Biggs, P., Voelckel, C. and Nelson, N. J. 2012. De novo sequence assembly and characterisation of a partial transcriptome for an evolutionarily distinct reptile, the tuatara (*Sphenodon punctatus*). *BMC Genomics* 13(439): 1–12.
- Miller, K. A. 2009. *Founding events and the maintenance of genetic diversity in reintroduced populations*. Unpublished PhD thesis, Victoria University of Wellington, Wellington. 125 p.
- Miller, K. A., Nelson, N. J., Smith, H. G. and Moore, J. A. 2009. How do reproductive skew and founder group size affect genetic diversity in reintroduced populations? *Molecular Ecology* 18: 3792–3802.
- Miller, K. A., Gruber, M. A. M., Keall, S. N., Blanchard, B. and Nelson, N. J. 2010. Changing taxonomy and the need for supplementation in the management of reintroductions of Brothers Island tuatara in Cook Strait, New Zealand. In: Soorae, P. S. (ed.). *Global re-introduction perspectives: additional case-studies from around the globe*. IUCN/SSC Re-introduction

- Specialist Group, Abu Dhabi, UAE, pp. 93–97.
- Miller, K. A., Miller, H. C., Moore, J. A., Mitchell, N. J., Cree, A., Allendorf, F. W., Sarre, S. D., Keall, S. N. and Nelson, N. J. 2012. Securing the demographic and genetic future of tuatara through assisted colonization. *Conservation Biology* 26: 790–798.
- Milligan, R. R. D. 1924. The respiration and metabolism of the tuatara. *Australian Association for the Advancement of Science* Report 16: 404–406.
- Miskelly, C. M. 2011. In the dragon's keep: herpetological holdings at Museum of New Zealand Te Papa Tongarewa. In: Abstracts of papers presented at the 14th Biennial Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Tautuku, Otago, New Zealand, 11–13 February 2011. *New Zealand Journal of Zoology* 38: 273–274.
- Mitchell, N. J. and Janzen, F. J. 2010. Temperature-dependent sex determination and contemporary climate change. *Sexual Development* 4: 129–140.
- Mitchell, N. J., Nelson, N. J., Cree, A., Pledger, S., Keall, S. N. and Daugherty, C. H. 2006. Support for a rare pattern of temperature-dependent sex determination in archaic reptiles: evidence from two species of tuatara (*Sphenodon*). *Frontiers in Zoology* 3(9): 1–12.
- Mitchell, N. J., Kearney, M. R., Nelson, N. J. and Porter, W. P. 2008. Predicting the fate of a living fossil: how will global warming affect sex determination and hatchling phenology in tuatara? *Proceedings of the Royal Society B* 275: 2185–2193.
- Mitchell, N. J., Allendorf, F. W., Keall, S. N., Daugherty, C. H. and Nelson, N. J. 2010. Demographic effects of temperature-dependent sex determination: will tuatara survive global warming? *Global Change Biology* 16: 60–72.
- Mitteilungen, K. 1971. Bemerkungen über die Häutung der Brückenechse (*Sphenodon punctatus*) in Gefangenschaft. *Salamandra* 7: 81–82.
- Moazen, M., Curtis, N., O'Higgins, P., Evans, S. E. and Fagan, M. J. 2009. Biomechanical assessment of evolutionary changes in the lepidosaurian skull. *Proceedings of the National Academy of Sciences* 106: 8273–8277.
- Moffat, L. A. 1985. Embryonic development and aspects of reproductive biology in the tuatara, *Sphenodon punctatus*. In: Gans, C., Billet, F. and Maderson, P. (eds). *Biology of the Reptilia. Vol. 14. Development A*. John Wiley and Sons, New York, pp. 493–521.
- Moir, M. L., Vesk, P. A., Brennan, K. E. C., Poulin, R., Hughes, L., Keith, D. A., McCarthy, M. A. and Coates, D. J. 2012. Considering extinction of dependent species during translocation, ex situ conservation, and assisted migration of threatened hosts. *Conservation Biology* 26: 199–207.
- Moller, H. 1985. Tree wetas (*Hemideina crassicuris*) (Orthoptera: Stenopelmatidae) of Stephens Island, Cook Strait. *New Zealand Journal of Zoology* 12: 55–69.
- Moore, J. A. 2008. *Fitness implications of the mating system and reproductive ecology of tuatara*. Unpublished PhD thesis, Victoria University of Wellington, Wellington. 140 p.

- Moore, J. A. and Godfrey, S. S. 2006. *Sphenodon punctatus* (common tuatara): opportunistic predation. *Herpetological Review* 37: 81–82.
- Moore, J. A., Hoare, J. M., Daugherty, C. H. and Nelson, N. J. 2007. Waiting reveals waning weight: monitoring over 54 years shows a decline in body condition of a long-lived reptile (tuatara, *Sphenodon punctatus*). *Biological Conservation* 135: 181–188.
- Moore, J. A., Miller, H. C., Daugherty, C. H. and Nelson, N. J. 2008a. Fine-scale genetic structure of a long-lived reptile reflects recent habitat modification. *Molecular Ecology* 17: 4630–4641.
- Moore, J. A., Nelson, N. J., Keall, S. N. and Daugherty, C. H. 2008b. Implications of social dominance and multiple paternity for the genetic diversity of a captive-bred reptile population (tuatara). *Conservation Genetics* 9: 1243–1251.
- Moore, J. A., Daugherty, C. H., Godfrey, S. S. and Nelson, N. J. 2009a. Seasonal monogamy and multiple paternity in a wild population of a territorial reptile (tuatara). *Biological Journal of the Linnean Society* 98: 161–170.
- Moore, J. A., Daugherty, C. H. and Nelson, N. J. 2009b. Large male advantage: phenotypic and genetic correlates of territoriality in tuatara. *Journal of Herpetology* 43: 570–578.
- Moore, J. A., Grant, T., Brown, D., Keall, S. N. and Nelson, N. J. 2010. Mark-recapture accurately estimates census for tuatara, a burrowing reptile. *Journal of Wildlife Management* 74: 897–901.
- Müller, J. 2003. Early loss and multiple return of the lower temporal arcade in diapsid reptiles. *Naturwissenschaften* 90: 473–476.
- Murphy, R. W. and Matson, R. H. 1986. Evolution of isozyme characters in the tuatara, *Sphenodon punctatus*. *New Zealand Journal of Zoology* 13: 573–581.
- Nelson, N. 1998. *Conservation of Brothers Island tuatara (Sphenodon guntheri)*. Unpublished MConSc thesis. Victoria University of Wellington, Wellington. 262 p
- Nelson, N. J. 2001. *Temperature-dependent sex determination and artificial incubation of tuatara, Sphenodon punctatus*. Unpublished PhD thesis, Victoria University of Wellington, Wellington. 123 p.
- Nelson, N. J. 2004. Sex determination and incubation of tuatara, *Sphenodon punctatus*. In: Abstracts of papers presented at the 10th Biennial Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Whakatane, New Zealand, 31 January–2 February 2003. *New Zealand Journal of Zoology* 31: 107.
- Nelson, N. J. 2005. Conservation-biased research on a New Zealand treasure, the tuatara. In: Abstracts of papers presented at the 11th Biennial Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Springbrook National Park, south-east Queensland, Australia, 7–11 February 2005. *New Zealand Journal of Zoology* 32: 228.
- Nelson, N. J. and Daugherty, C. H. 1997. The first experimental translocation of a tuatara population: conservation of *Sphenodon guntheri*. In: Abstracts of papers presented at the 7th Conference

- of the Society for Research on Amphibians and Reptiles in New Zealand, Kaikoura, New Zealand, 31 January–2 February 1997. *New Zealand Journal of Zoology* 24: 328.
- Nelson, N., Pledger, S., Keall, S. and Daugherty, C. 1999. Conservation evaluation of Brothers Island tuatara (*Sphenodon guntheri*). In: Abstracts of papers presented at the 8th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Great Barrier Island, New Zealand, 5–7 February 1999. *New Zealand Journal of Zoology* 26: 259.
- Nelson, N. J., Keall, S. N., Daugherty, C. H. and Thompson, M. B. 2001. Possible fitness consequences of artificial induction of oviposition in tuatara (*Sphenodon punctatus*). In: Abstracts of papers presented at the 9th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, St Arnaud, Nelson Lakes, New Zealand, 2–4 February 2001. *New Zealand Journal of Zoology* 28: 369.
- Nelson, N. J., Keall, S. N., Pledger, S. and Daugherty, C. H. 2002a. Male-biased sex ratio in a small tuatara population. *Journal of Biogeography* 29: 633–640.
- Nelson, N. J., Keall, S. N., Brown, D. and Daugherty, C. H. 2002b. Establishing a new wild population of tuatara (*Sphenodon guntheri*). *Conservation Biology* 16: 887–894.
- Nelson, N. J., Cree, A., Thompson, M. B., Keall, S. N. and Daugherty, C. H. 2004a. Temperature-dependent sex determination in tuatara. In: Valenzuela, N. and Lance, V. (eds). *Temperature-dependent sex determination in vertebrates*. Smithsonian, Washington, pp. 53–58.
- Nelson, N. J., Thompson, M. B., Pledger, S., Keall, S. N. and Daugherty, C. H. 2004b. Egg mass determines hatchling size, and incubation temperature influences post-hatching growth, of tuatara *Sphenodon punctatus*. *Journal of Zoology, London* 263: 77–87.
- Nelson, N. J., Thompson, M. B., Pledger, S., Keall, S. N. and Daugherty, C. H. 2004c. Induction of oviposition produces smaller eggs in tuatara (*Sphenodon punctatus*). *New Zealand Journal of Zoology* 31: 283–289.
- Nelson, N. J., Thompson, M. B., Pledger, S., Keall, S. N. and Daugherty, C. H. 2004d. Do TSD, sex ratios, and nest characteristics influence the vulnerability of tuatara to global warming? *International Congress Series* 1275: 250–257.
- Nelson, N. J., Thompson, M. B., Pledger, S., Keall, S. N. and Daugherty, C. H. 2006. Performance of juvenile tuatara depends on age, clutch, and incubation regime. *Journal of Herpetology* 40: 399–403.
- Nelson, N., Keall, S., Gaze, P. and Daugherty, C. 2008. Re-introduction of tuatara as part of an ecological restoration project on Wakatere-papanui Island, Marlborough Sounds, New Zealand. In: Soorae, P. S. (ed.). *Global re-introduction perspectives: re-introduction case-studies from around the globe*. IUCN/SSC Re-introduction Specialist Group, Abu Dhabi, UAE, pp. 58–61.
- Nelson, N. J., Moore, J. A., Pillai, S. and Keall, S. N. 2010. Thermosensitive period for sex determination in the tuatara. *Herpetological Conservation and Biology* 5: 324–329.

- Newman, A. K. 1878. Notes on the physiology and anatomy of the tuatara (*Sphenodon guntheri*). *Transactions and Proceedings of the New Zealand Institute* 10: 222–239.
- Newman, D. G. 1977. Some evidence of the predation of Hamilton's frog (*Leiopelma hamiltoni* (McCulloch)) by tuatara (*Sphenodon punctatus* (Grey)) on Stephens Island. *Proceedings of the New Zealand Ecological Society* 24: 43–47.
- Newman, D. G. 1978. Tuataras and petrels. *Wildlife: A Review* 9: 16–23.
- Newman, D. G. 1980. Herpetological symposium. *Wildlife: A Review* 11: 39–47.
- Newman, D. G. (ed.). 1982a. *New Zealand Herpetology*. New Zealand Wildlife Service Occasional Publication No. 2, Wellington. 495 p.
- Newman, D. G. 1982b. Current distribution of the tuatara. In: Newman, D. G. (ed.). *New Zealand herpetology*. New Zealand Wildlife Service Occasional Publication No. 2, Wellington, pp. 145–147.
- Newman, D. G. 1982c. Tuatara, *Sphenodon punctatus*, and burrows, Stephens Island. In: Newman, D. G. (ed.). *New Zealand herpetology*. New Zealand Wildlife Service Occasional Publication No. 2, Wellington, pp. 213–221.
- Newman, D. G. 1982d. Breeding tuataras, *Sphenodon punctatus*, in captivity. In: Newman, D. G. (ed.). *New Zealand herpetology*. New Zealand Wildlife Service Occasional Publication No. 2, Wellington, pp. 277–284.
- Newman, D. G. 1982e. New Zealand herpetological research – the work of the New Zealand Wildlife Service. *Herpetofauna* 14: 1–10.
- Newman, D. G. 1983. Tuatara/kiore relationships. *Wildlife: A Review* 12: 60–63.
- Newman, D. G. 1986. Can tuatara and mice co-exist? The status of the tuatara, *Sphenodon punctatus* (Reptilia: Rhynchocephalia), on the Whangamata Islands. In: Wright, A. E. and Beever, R. E. (eds). *The offshore islands of northern New Zealand*. New Zealand Department of Lands and Survey Information Series, No. 16, Wellington, pp. 179–185.
- Newman, D. G. 1987a. Burrow use and population densities of tuatara (*Sphenodon punctatus*) and how they are influenced by fairy prions (*Pachyptila turtur*) on Stephens Island, New Zealand. *Herpetologica* 43: 336–344.
- Newman, D. G. 1987b. *Tuatara*. John McIndoe Ltd, Dunedin. 24 p.
- Newman, D. G. 1988. Evidence of predation on a young tuatara, *Sphenodon punctatus*, by kiore, *Rattus exulans*, on Lady Alice Island. *New Zealand Journal of Zoology* 15: 443–446.
- Newman, D. G. 1998. Tuatara. In: Cogger, H. G. and Zweifel, R. G. (eds). *Encyclopedia of reptiles and amphibians*. Academic Press, San Diego, pp. 218–223.
- Newman, D. G. and McFadden, I. 1990a. Status of the tuatara, *Sphenodon punctatus*, on Hongiora and Ruamahua-iti Islands, Aldermen Group, New Zealand. *New Zealand Journal of Zoology* 17: 153–156.
- Newman, D. G. and McFadden, I. 1990b. Seasonal fluctuations of numbers, breeding, and food of

- kiore (*Rattus exulans*) on Lady Alice Island (Hen and Chickens group), with a consideration of kiore: tuatara (*Sphenodon punctatus*) relationships in New Zealand. *New Zealand Journal of Zoology* 17: 55–63.
- Newman, D. G. and Watson, P. R. 1985. The contribution of radiography to the study of the reproductive ecology of the tuatara, *Sphenodon punctatus*. In: Grigg, G., Shine, R. and Ehmann, H. (eds). *Biology of Australasian frogs and reptiles*. Surrey Beatty and Sons, Chipping Norton, New South Wales, pp. 7–10.
- Newman, D. G., Crook, I. G. and Moran, L. R. 1979. Some recommendations on the captive maintenance of tuataras *Sphenodon punctatus* based on observations in the field. *International Zoo Yearbook* 19: 68–74.
- Newman, D. G., Watson, P. R. and McFadden, I. 1994. Egg production by tuatara on Lady Alice and Stephens Island, New Zealand. *New Zealand Journal of Zoology* 21: 387–398.
- Nicholas, J. L. 1817. *Narrative of a voyage to New Zealand, performed in the years 1814 and 1815, in company with the Rev. Samuel Marsden, Principal Chaplain of New South Wales. Vol. 2.* James Black and Son, London. 400 p.
- Norris, T. B. 1997. *Chromosomal studies of the New Zealand herpetofauna*. Unpublished MSc thesis, Victoria University of Wellington, Wellington. 206 p.
- Norris, T. B. 2007. *Chromosomes, nuclear genes and the phylogenetic placement within the Reptilia of Sphenodon (tuatara)*. Unpublished PhD thesis, Victoria University of Wellington, Wellington. 196 p.
- Norris, T. B., Rickards, G. K. and Daugherty, C. H. 2004. Chromosomes of tuatara, *Sphenodon*, a chromosome heteromorphism and an archaic reptilian karyotype. *Cytogenetic and Genome Research* 105: 93–99.
- Northcutt, R. G. and Heath, J. E. 1973. T-maze behavior of the tuatara (*Sphenodon punctatus*). *Copeia* 1973: 617–620.
- Northcutt, R. G., Braford, M. R., Jr. and Landreth, G. E. 1974. Retinal projections in the tuatara *Sphenodon punctatus*: an autoradiographic study. *Anatomical Record* 178: 428 (abstract).
- Nutting, C. C. 1926. Work on *Sphenodon*. *Science* (New Series) 63: 210.
- Nye, E. R. and Buchanan, H. 1969. Adipose tissue reactivity of *Sphenodon punctatus* and a species of New Zealand skink. *Comparative Biochemistry and Physiology* 28: 483–485.
- O'Donoghue, C. H. 1920. The blood vascular system of the tuatara, *Sphenodon punctatus*. *Philosophical Transactions of the Royal Society of London B* 210: 175–252 + plates 6–8.
- O'Meally, D., Miller, H., Patel, H. R., Marshall Graves, J. A. and Ezaz, T. 2009. The first cytogenetic map of the tuatara, *Sphenodon punctatus*. *Cytogenetic and Genome Research* 127: 213–223.
- Oldman, J. M. 2008. *Non-surgical methods for sexing small juvenile tuatara*. Unpublished MSc thesis, University of Otago, Dunedin. 90 p.
- Oldman, J. M. and Cree, A. 2010. Non-invasive techniques for sexing small juvenile tuatara. In:

- Abstracts of papers presented at the Second Meeting of Australasian Societies for Herpetology (Society for Research on Amphibians and Reptiles in New Zealand and the Australia Society for Herpetologists), Massey University, Auckland, New Zealand, 20–22 February 2009. *New Zealand Journal of Zoology* 37: 93–94.
- Oliver, J. A. 1953. The timeless tuatara. *Animal Kingdom* 61: 2–8, 31.
- Ombler, K. 2004. A turnaround for tuatara. *Forest and Bird* No. 313: 28–31.
- Orbell, M. 1996. *The natural world of the Maori*. Revised edn. David Bateman, Auckland. 128 p.
- Osawa, G. 1896. Beiträge zur feineren Struktur des Integumentes der *Hatteria punctata*. *Archiv für Mikroskopische Anatomie und Entwicklungsgeschichte* 47: 570–583.
- Osawa, G. 1897. Beiträge zur Lehre von den Eingeweiden der *Hatteria punctata*. *Archiv für Mikroskopische Anatomie und Entwicklungsgeschichte* 49: 113–226 + Tafeln VIII–XIV.
- Osawa, G. 1898a. Beiträge zur Anatomie der *Hatteria punctata*. *Archiv für Mikroskopische Anatomie und Entwicklungsgeschichte* 51: 481–691.
- Osawa, G. 1898b. Nachtrag zur Lehre von den Eingeweiden der *Hatteria punctata*. Die weiblichen Geschlechtsorgane. *Archiv für Mikroskopische Anatomie und Entwicklungsmechanik* 51: 764–794 + Tafeln XXIII–XXV.
- Osawa, G. 1898c. Beiträge zur Lehre von den Sinnesorganen der *Hatteria punctata*. *Archiv für Mikroskopische Anatomie und Entwicklungsgeschichte* 52: 268–366 + Tafeln XVI–XVIII.
- Osawa, G. 1898d. Über die Stellung der *Hatteria punctata* in der Teirreihe. *Verhandlungen der Anatomischen Gesellschaft* 12: 100–106.
- Osawa, G. 1899. Ueber die Fovea centralis von *Hatteria punctata*. Eine Erwiderung an Prof. Kallius in Göttingen. *Anatomischer Anzeiger* 15: 226–227.
- Osborn, H. F. 1900. Intercentra and hypapophyses in the cervical region of mosasaurs, lizards, and *Sphenodon*. *American Naturalist* 34: 1–7.
- Ostrom, J. H. 1962. On the constrictor dorsalis muscles of *Sphenodon*. *Copeia* 1962: 732–735.
- Owen, K. 1998. Introduction of northern tuatara to Moutohora Island, Bay of Plenty. *Ecological Management* No. 6: 23–33.
- Owen, R. 1845. Report on the reptilian fossils of South Africa. *Transactions of the Geological Society of London* 7: 59–84 + plates III–VI.
- Owen, R. 1853. *Descriptive catalogue of the osteological series contained in the museum of the Royal College of Surgeons of England. Vol. 1*. Taylor and Francis, London.
- Packard, M. J., Hirsch, K. F. and Meyer-Rochow, V. B. 1982. Structure of the shell from eggs of the tuatara, *Sphenodon punctatus*. *Journal of Morphology* 174: 197–205.
- Packard, M. J., Thompson, M. B., Goldie, K. N. and Vos, M. 1988. Aspects of shell formation in eggs of the tuatara, *Sphenodon punctatus*. *Journal of Morphology* 197: 147–157.
- Parham, W. T. 1982. Tuatara – the classic survivor. *Historical Review (Whakatane and District Historical Society)* 30: 62–63.

- Parker, T. J. 1891. The Otago University Museum. In: Hastings, D. H. (ed.). *Official record of the New Zealand and South Seas Exhibition, held at Dunedin, 1889–1890*. Government Printer, Wellington, pp. 136–143.
- Parsons, T. S. 1959a. Studies on the comparative embryology of the reptilian nose. *Bulletin of the Museum of Comparative Zoology* 120: 104–277.
- Parsons, T. S. 1959b. Nasal anatomy and the phylogeny of reptiles. *Evolution* 13: 175–187.
- Parsons, T. S. 1970. The nose and Jacobson's organ. In: Gans, C. and Parsons, T. S. (eds). *Biology of the Reptilia. Vol. 2. Morphology B*. Academic Press, London, pp. 99–191.
- Pepperell, J. G. 1982. Tuatara *Sphenodon punctatus* locomotion: a summary. In: Newman, D. G. (ed.). *New Zealand herpetology*. New Zealand Wildlife Service Occasional Publication No. 2, Wellington, pp. 207–211.
- Perrin, A. 1895. Recherches sur les affinités zoologiques de l'*Hatteria punctata*. *Annales des Sciences Naturelles Zoologie et Paléontologie* 20: 33–102 + plates II–V.
- Perry, S. F. 1998. Lungs: comparative anatomy, functional morphology, and evolution. In: Gans, C. and Gaunt, A. S. (eds). *Biology of the Reptilia. Vol. 19. Morphology G. Visceral organs*. Society for the Study of Amphibians and Reptiles. Contributions to Herpetology Vol. 14, Ithaca, New York, pp. 1–92.
- Peters, W. 1874. Über die Gerhörknöchelchen und ihre Verhältnisse zu dem ersten Zungenbeinbogen bei *Sphenodon punctatus*. *Monatsberichte der Königlichen Preußischen Akademie der Wissenschaften zu Berlin* 15: 40–45.
- Peterson, J. A. 1984. The scale microarchitecture of *Sphenodon punctatus*. *Journal of Herpetology* 18: 40–47.
- Pieau, C., Dorizzi, M. and Richard-Mercier, N. 2001. Temperature-dependent sex determination and gonadal differentiation in reptiles. In: Scherer, G. and Schmid, M. (eds). *Genes and mechanisms in vertebrate sex determination*. Birkhäuser Verlag, Basel, pp. 117–141.
- Pierce, R. J. 2002. *Kiore (Rattus exulans) impact on breeding success of Pycroft's petrels and little shearwaters*. Department of Conservation Science Internal Series 39. Department of Conservation, Wellington. 24 p.
- Platel, R. 1989. L'encéphalisation chez le tuatara de Nouvelle-Zélande *Sphenodon punctatus* Gray (Lepidosauria, Sphenodonta). Etude quantifiée des principales subdivisions encéphaliques. *Journal für Hirnforschung* 30: 325–337.
- Poglayen-Neuwall, I. 1953. Untersuchungen über die Trigeminusmuskulatur von *Hatteria*. *Zeitschrift für Wissenschaftliche Zoologie* 157: 57–76.
- Polack, J. S. 1838. *New Zealand: being a narrative of travels and adventures during a residence in that country between the years 1831 and 1837. Vol. I and II*. Richard Bentley, London. 403 p., 441 p.
- Polack, J. S. 1840. *Manners and customs of the New Zealanders; with notes corroborative of their*

- habits, usages, etc., and remarks to intending emigrants, with numerous cuts drawn on wood. Vol. I and II.* James Madden & Co., Piccadilly. Reprint published 1976 by Capper Press, Christchurch. 288 p., 288 p.
- Poluhowich, J. J. and Brush, A. H. 1972. An electrophoretic study of *Sphenodon* proteins. *Comparative Biochemistry and Physiology* 41B: 281–285.
- Pratt, C. W. M. 1948. The morphology of the ethmoidal region of *Sphenodon* and lizards. *Proceedings of the Zoological Society of London* 118: 171–201.
- Prebble, G. K. 1971. *Tuhua – Mayor Island*. Ashford-Kent, Tauranga. 228 p.
- Quay, W. B. 1979. The parietal eye-pineal complex. In: Gans, C., Northcutt, R. G. and Ulinski, P. (eds). *Biology of the Reptilia. Vol. 9. Neurology A*. Academic Press, London, pp. 245–406.
- Quinn, T. W. and Mindell, D. P. 1996. Mitochondrial gene order adjacent to the control region in crocodile, turtle, and tuatara. *Molecular Phylogenetics and Evolution* 5: 344–351.
- Ramstad, K. M., Nelson, N. J., Daugherty, C. H. and Allendorf, F. W. 2004. Integrating traditional Maori and scientific ecological knowledge of the tuatara (*Sphenodon*). In: Abstracts of papers presented at the 10th Biennial Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Whakatane, New Zealand, 31 January–2 February 2003. *New Zealand Journal of Zoology* 31: 107–108.
- Ramstad, K. M., Nelson, N. J., Paine, G., Beech, D., Paul, A., Paul, P., Allendorf, F. W. and Daugherty, C. H. 2007a. Species and cultural conservation in New Zealand: Maori traditional ecological knowledge of tuatara. *Conservation Biology* 21: 455–464.
- Ramstad, K., Nelson, N., Paine, G., Beech, D., Paul, A., Paul, P., Allendorf, F. and Daugherty, C. 2007b. Tuatara: our living ancient taonga. *Mana* 76 (June–July): 18–21.
- Ramstad, K. M., Paine, G., Dunning, D. L., Geary, A. F., Keall, S. N. and Nelson, N. J. 2009. Effective partnerships between universities and indigenous communities: a case study in tuatara conservation in Aotearoa. *Journal of the Royal Society of New Zealand* 39: 229–231.
- Ramstad, K. M., Moore, J. A. and Refsnider, J. M. 2012. Intrasexual aggression in tuatara: males and females respond differently to same-sex intruders. *Herpetological Review* 43: 19–21.
- Refsnider, J., Moore, J. and Streby, H. 2008. *Sphenodon punctatus* (common tuatara). Prey detection. *Herpetological Review* 39: 347–348.
- Refsnider, J. M., Keall, S. N., Daugherty, C. H. and Nelson, N. J. 2009. Does nest-guarding in female tuatara (*Sphenodon punctatus*) reduce nest destruction by conspecific females? *Journal of Herpetology* 43: 294–299.
- Refsnider, J. M., Daugherty, C. H., Keall, S. N. and Nelson, N. J. 2010. Nest-site choice and fidelity in tuatara on Stephens Island, New Zealand. *Journal of Zoology, London* 280: 396–402.
- Refsnider, J. M., Daugherty, C. H., Godfrey, S. S., Keall, S. N., Moore, J. A. and Nelson, N. J. 2013. Patterns of nesting migrations in the tuatara (*Sphenodon punctatus*), a colonially nesting island reptile. *Herpetologica* 69: 282–290.

- Reilly, S. M., McElroy, E. J., Odum, R. A. and Hornyak, V. A. 2006. Tuataras and salamanders show that walking and running mechanics are ancient features of tetrapod locomotion. *Proceedings of the Royal Society of London B* 273: 1563–1568.
- Reiner, A. and Northcutt, R. G. 2000. Succinic dehydrogenase histochemistry reveals the location of the putative primary visual and auditory areas within the dorsal ventricular ridge of *Sphenodon punctatus*. *Brain, Behaviour and Evolution* 55: 26–36.
- Reischek, A. 1882. Notes on zoological researches made on the Chicken Island, east coast of the North Island. *Transactions and Proceedings of the New Zealand Institute* 14: 274–277.
- Reischek, A. 1886. Observations on *Sphenodon punctatum*, fringe-back lizard (Tuatara). *Transactions and Proceedings of the New Zealand Institute* 18: 108–110.
- Reischek, A. 1971. *Yesterdays in Maoriland: New Zealand in the 'eighties*. Wilson and Horton, Auckland (fascimile edition). 312 p.
- Renous, S. 1975. Particularités des systèmes musculaire et nerveux du membre antérieur de *Sphenodon punctatus* (Reptiles – rhynchocéphales). *Gegenbaurs Morphologisches Jahrbuch* 121: 230–238.
- Renous-Lécuru, S. 1973. Morphologie comparée du carpe chez les lépidosauriens actuels (rhynchocéphales, lacertiliens, amphisbénieniens). *Gegenbaurs Morphologisches Jahrbuch* 119: 727–766 + 3 plates.
- Rest, J. S., Ast, J. C., Austin, C. C., Waddell, P. J., Tibbetts, E. A., Hay, J. M. and Mindell, D. P. 2003. Molecular systematics of primary reptilian lineages and the tuatara mitochondrial genome. *Molecular Phylogenetics and Evolution* 29: 289–297.
- Rheubert, J. L., Cree, A., Downes, M. and Sever, D. M. 2012. Reproductive morphology of the male tuatara, *Sphenodon punctatus*. *Acta Zoologica* 00: 1–8. doi 10.1111/j.1463-6395.2012.00574.x.
- Ribbing, L. 1911. Kleinere Muskelstudien. 1. Die Vorderarm- und Handmuskulatur von *Sphenodon*. *Acta Universitatis Lundensis, Nova Series (Lunds Universitets Årsskrift, N. Folge)* [Fysiografiska Sällskapetets Handlingar N. Folge, 21(8)] 6: 1–9.
- Richardson, A. 2002. Poison kills four tuatara at zoo. *Sunday-Star Times*, Auckland, 1 September, p. 5.
- Richardson, S. J., Bradley, A. J., Duan, W., Wettenhall, R. E. H., Harms, P. J., Babon, J. J., Southwell, B. R., Nicol, S., Donnellan, S. C. and Scriber, G. 1994. Evolution of marsupial and other vertebrate thyroxine-binding plasma proteins. *American Journal of Physiology* 266: R1359–R1370.
- Rieppel, O. 1978. The throat musculature of *Sphenodon*, with comments on the primitive character states of the throat muscles in lizards. *Anatomischer Anzeiger* 144: 429–440.
- Rieppel, O. 1992. The skull in a hatchling of *Sphenodon punctatus*. *Journal of Herpetology* 26: 80–84.

- Rieppel, O., Gauthier, J. and Maisano, J. 2008. Comparative morphology of the dermal palate in squamate reptiles, with comments on phylogenetic implications. *Zoological Journal of the Linnean Society* 152: 131–152.
- Robb, J. 1973. Reptiles and amphibia. In: Williams, G. R. (ed.). *The natural history of New Zealand. An ecological survey*. A. H. and A. W. Reed, Wellington, pp. 285–303.
- Robb, J. 1977. *The tuatara*. Meadowfield, Durham. 64 p.
- Robb, J. 1980. *New Zealand amphibians and reptiles in colour*. Collins, Auckland (revised 1986). 128 p.
- Robinson, P. L. 1976. How *Sphenodon* and *Uromastyx* grow their teeth and use them. In: Bellairs, A. d. A. and Cox, C. B. (eds). *Morphology and biology of reptiles*. Linnean Society Symposium Series No. 3. Academic Press, London, pp. 43–64.
- Rodda, G. H. and Dean-Bradley, K. D. 2002. Excess density compensation of island herpetofaunal assemblages. *Journal of Biogeography* 29: 623–632.
- Roe, W. 2002. Pathology of a cloacal tumour in a tuatara. *Kokako* 9: 5–6.
- Roe, W. D., Alley, M. R., Cooper, S. M. and Hazley, L. 2002. Squamous cell carcinoma in a tuatara (*Sphenodon punctatus*). *New Zealand Veterinary Journal* 50: 207–210.
- Romer, A. S. 1956. *Osteology of the reptiles*. University of Chicago Press, Chicago. 772 p
- Romer, A. S. 1966. *Vertebrate paleontology*. 3rd edn. University of Chicago Press, Chicago. 468 p.
- Rosenberg, H. and Gans, C. 1977. Preliminary analysis of mastication in *Sphenodon punctatus*. *American Zoologist* 17: 871 (abstract).
- Ross, C. F., Eckhardt, A., Herrel, A., Hylander, W. L., Metzger, K. A., Schaerlaeken, V., Washington, R. L. and Williams, S. H. 2007. Modulation of intra-oral processing in mammals and lepidosaurs. *Integrative and Comparative Biology* 47: 118–136.
- Ross, C. F., Baden, A. L., Georgi, J., Herrel, A., Metzger, K. A., Reed, D. A., Schaerlaeken, V. and Wolff, M. S. 2010. Chewing variation in lepidosaurs and primates. *Journal of Experimental Biology* 213: 572–584.
- Rout, T. M., McDonald-Madden, E., Martin, T. G., Mitchell, N. J., Possingham, H. P. and Armstrong, D. P. 2013. How to decide whether to move species threatened by climate change. *PLOS ONE* 8 (e75814): 1–7.
- Ruffell, J. 2005. *The use of translocation in tuatara (Sphenodon punctatus punctatus) conservation and relationships between the tuatara and the tick Aponomma sphenodonti (Acari: Ixodidae)*. Unpublished MSc thesis, University of Auckland. 134 p.
- Russell, A. P. and Bauer, A. M. 2008. The appendicular locomotor apparatus of *Sphenodon* and normal-limbed squamates. In: Gans, C., Gaunt, A. S. and Adler, K. (eds). *Biology of the Reptilia. Vol. 21. Morphology I. The skull and appendicular locomotor apparatus of Lepidosauria*. Society for the Study of Amphibians and Reptiles, Ithaca, NY. Contributions to Herpetology vol. 24, pp. 1–465.

- Russell, M. 1998. Tuatara, relics of a lost age. *Cold Blooded News* 25: 1–4.
- S., N. M. 1966. Tuatara, *Sphenodon punctatus* (Gray, 1842). *International Union for Conservation of Nature and Natural Resources Bulletin* 2: 7–8.
- Saint Girons, H. 1980. Thermoregulation in reptiles with special reference to the tuatara and its ecophysiology. *Tuatara* 24: 59–80.
- Saint-Girons, H. 1982. Histologie comparée des glandes orbitaires des Lépidosauriens. *Annales des Sciences Naturelles, Zoologie, Paris* 4: 171–191.
- Saint Girons, H. 1983. Le *Sphenodon*, particularités écologiques et hypothèses sur son évolution. *Bulletin de la Société Zoologique de France* 108: 631–634.
- Saint Girons, H. 1985. The *Sphenodon*: ecological features and some hypotheses concerning its evolution. *Bulletin of the Chicago Herpetological Society* 20: 48–51.
- Saint Girons, H. and Newman, D. G. 1987. The reproductive cycle of the male tuatara, *Sphenodon punctatus*, on Stephens Island, New Zealand. *New Zealand Journal of Zoology* 14: 231–237.
- Saint Girons, H., Bell, B. D. and Newman, D. G. 1980. Observations on the activity and thermoregulation of the tuatara, *Sphenodon punctatus* (Reptilia: Rhynchocephalia), on Stephens Island. *New Zealand Journal of Zoology* 7: 551–556.
- Sandager, F. 1890. Observations on the Mokohinau Islands and the birds which visit them. *Transactions and Proceedings of the New Zealand Institute* 22: 286–294.
- Sanderson, K. 2009. Temperature preference of acclimated tuatara, *Sphenodon punctatus*. *Transactions of the Royal Society of South Australia* 133: 178–180.
- Sauerbeck, E. 1906. Eine Gehirnmißbildung bei *Hatteria punctata* (*Sphenodon punctatus*). [Eversio encephali e neuroporo, Transgressus persistens laminae nervosa in epidermidem. Anophthalmia duplex partialis (Defectus oculi nervosi et lentis)]. *Nova Acta. Abhandlungen der Kaiserlich Leopoldinisch-Carolinische Deutschen Akademie der Naturforscher, Halle* 85: 1–116 + Tafeln 1–2.
- Säve-Söderbergh, G. 1946. On the fossa hypophyseos and the attachment of the retractor bulbi group in *Sphenodon*, *Varanus*, and *Lacerta*. *Arkiv för Zoologi* 38A: 1–24.
- Säve-Söderbergh, G. 1947. Notes on the brain-case in *Sphenodon* and certain Lacertilia. *Zoologiska Bidrag fran Uppsala* 25: 489–516.
- Schaeffer, B. 1941. The morphological and functional evolution of the tarsus in amphibians and reptiles. *Bulletin of the American Museum of Natural History* 78: 395–472.
- Schaerlaeken, V., Herrel, A., Aerts, P. and Ross, C. F. 2008. The functional significance of the lower temporal bar in *Sphenodon punctatus*. *Journal of Experimental Biology* 211: 3908–3914.
- Schauinsland, H. 1898a. Zur Entwicklung von *Hatteria*. *Sitzungsberichte der Akademie der Wissenschaften zu Berlin* 44: 629–631.
- Schauinsland, H. 1898b. Beiträge zur Biologie der *Hatteria*. *Sitzungsberichte der Akademie der Wissenschaften zu Berlin* 44: 701–704.

- Schauinsland, H. 1899. Beiträge zur Biologie und Entwicklung der *Hatteria* nebst Bemerkungen über die Entwicklung der Sauropsiden. *Anatomischer Anzeiger* 15: 309–334 + Tafeln II–III.
- Schauinsland, H. 1900. Weitere Beiträge zur Entwicklungsgeschichte der *Hatteria*. Skelettsystem, schallleitender Apparat, Hirnnerven etc. *Archiv für Mikroskopische Anatomie und Entwicklungsgeschichte* 56: 747–867+ Tafeln XXXII–XXXIV.
- Schauinsland, H. 1903a. Beiträge zur Entwicklungsgeschichte und Anatomie der Wirbeltiere I. *Sphenodon, Callorhynchus, Chamäleo*. *Zoologica, Stuttgart* 16: 1–98 + Tafeln I–XXXI.
- Schauinsland, H. 1903b. Beiträge zur Entwicklungsgeschichte und Anatomie der Wirbeltiere II. Studien zur Entwicklungsgeschichte der Sauropsiden. *Zoologica, Stuttgart* 16: 101–143 + Tafeln XXXII–XLVII.
- Schauinsland, H. 1903c. Beiträge zur Entwicklungsgeschichte und Anatomie der Wirbeltiere III. Beiträge zur Kenntniss der Eihäute der Sauropsiden. *Zoologica, Stuttgart* 16: 147–168 + Tafeln L–LVI.
- Schauinsland, H. 1906a. Die Entwicklung der Eihäute der Reptilien und der Vögel. In: Hertwig, O. (ed.). *Handbuch der vergleichenden und experimentellen Entwicklungslehre der Wirbeltiere. Vol. 1, part 2*. Gustav Fischer, Jena, pp. 177–234.
- Schauinsland, H. 1906b. Die Entwicklung der Wirbelsäule nebst Rippen und Brustbein. In: Hertwig, O. (ed.). *Handbuch der vergleichenden und experimentellen Entwicklungslehre der Wirbeltiere. Vol. 3, part 2*. Gustav Fischer, Jena, pp. 339–572.
- Schmid, K. L., Howland, H. C. and Howland, M. 1992. Focusing and accommodation in tuatara (*Sphenodon punctatus*). *Journal of Comparative Physiology A* 170: 263–266.
- Schmidt, K. P. 1949. To a tuatara alive in my hand. *Tuatara* 2: 90.
- Schmidt, K. P. 1952. References to the tuatara in the Stephen Island letter book. *Fieldiana Zoology* 34: 1–10.
- Schmidt, K. P. 1953. A visit to Karewa Island, home of the tuatara. *Fieldiana Zoology* 34: 153–164.
- Schmidt-Nielsen, B. and Schmidt, D. 1973. Renal function of *Sphenodon punctatum*. *Comparative Biochemistry and Physiology* 44A: 121–129.
- Schreiber, G., Pettersson, T. M., Southwell, B. R., Aldred, A. R., Harms, P. J., Richardson, S. J., Wettenhall, R. E. H., Duan, W. and Nicol, S. C. 1993. Transthyretin expression evolved more recently in liver than in brain. *Comparative Biochemistry and Physiology* 105B: 317–325.
- Schwab, I. R. and O'Connor, G. R. 2004. An enigmatic eye: what can we learn? *Clinical and Experimental Ophthalmology* 32: 559–560.
- Schwab, I. R. and O'Connor, G. R. 2005. The lonely eye. *British Journal of Ophthalmology* 89: 256.
- Schwenk, K. 1986. Morphology of the tongue in the tuatara, *Sphenodon punctatus* (Reptilia: Lepidosauria), with comments on function and phylogeny. *Journal of Morphology* 188: 129–156.
- Schwenk, K. 2000. Feeding in lepidosaurs. In: Schwenk, K. (ed.). *Feeding: form, function, and*

- evolution in tetrapod vertebrates*. Academic Press, San Diego, pp. 175–291.
- Sclater, P. L. 1870. Recent additions to the Zoological Society's Gardens. *Nature* 2: 146–148.
- Sclater, P. L. 1871. New Zealand animals in the Zoological Society's Gardens. *Nature* 3: 190–192.
- Seligmann, H., Beiles, A. and Werner, Y. L. 2003. More injuries in left-footed individual lizards and *Sphenodon*. *Journal of Zoology, London* 260: 129–144.
- Seligmann, H., Moravec, J. and Werner, Y. L. 2008. Morphological, functional and evolutionary aspects of tail autotomy and regeneration in the 'living fossil' *Sphenodon* (Reptilia: Rhynchocephalia). *Biological Journal of the Linnean Society* 93: 721–743.
- Sewell, F. W. 1931. [On catching tuatara on Mokohinau Island]. *Dominion* (page and date unknown; copy in ANZ M 1 25/611 pt 3).
- Sharell, R. 1966. *The tuatara, lizards and frogs of New Zealand*. Collins, London (revised 1975). 94 p.
- Shedlock, A. M. 2006. Phylogenomic investigation of CR1 LINE diversity in reptiles. *Systematic Biology* 55: 902–911.
- Sherley, G. H., Stringer, I. A. N. and Parrish, G. R. 2010. Summary of native bat, amphibian and terrestrial invertebrate translocations in New Zealand. *Science for Conservation* No. 303. Department of Conservation, Wellington. 39 p.
- Siebenrock, F. 1893. Zur Osteologie des *Hatteria* – Kopfes. *Sitzungsberichte der kaiserlichen Akademie der Wissenschaften in Wien, Mathematisch-naturwissenschaftliche Classe* 102: 250–268 + 1 Tafel.
- Siebenrock, F. 1894. A contribution to the osteology of the head of *Hatteria*. *Annals and Magazine of Natural History* 13: 297–311.
- Simons, J. R. 1965. The heart of the tuatara *Sphenodon punctatus*. *Journal of Zoology* 146: 451–466.
- Skegg, P. D. G. 1963. Birds of the Mercury Islands Group. *Notornis* 10: 153–168.
- Sladden, B. 1924. Karewa: an island sanctuary. *New Zealand Journal of Science and Technology* 7: 182–187.
- Sladden, B. and Falla, R. A. 1928. Alderman Islands. A general description, with notes on the flora and fauna (continued). *New Zealand Journal of Science and Technology* 9: 282–290.
- Southey, I. C. 1985. *The ecology of three rare skinks on Middle Island, Mercury Islands*. Unpublished MSc thesis, University of Auckland, Auckland. 99 p.
- Spencer, W. B. 1886a. Preliminary communication on the structure and presence in *Sphenodon* and other lizards of the median eye, described by van Graaf in *Anguis fragilis*. *Proceedings of the Royal Society of London* 40: 559–565.
- Spencer, W. B. 1886b. The parietal eye of *Hatteria*. *Nature* 34: 33–35.
- Spencer, W. B. 1886c. On the presence and structure of the pineal eye in Lacertilia. *Quarterly Journal of Microscopical Science* 27: 165–238 + plates XIV–XX.
- Stack, J. W. 1875. On the disappearance of the larger kinds of lizard from North Canterbury.

- Transactions and Proceedings of the New Zealand Institute* 7: 295–297.
- Stack, J. W. 1898. *South Island Maoris: a sketch of their history and legendary lore*. Whitcombe & Tombs Ltd, Christchurch. Reprinted 1984, Capper Press, Christchurch. 136 p.
- Stebbins, R. C. 1958. An experimental study of the ‘third eye’ of the tuatara. *Copeia* 1958: 183–190.
- Stebbins, R. C. and Eakin, R. M. 1958. The role of the ‘third eye’ in reptilian behavior. *American Museum Novitates* 1870: 1–40.
- Subramanian, S., Hay, J. M., Mohandesan, E., Millar, C. D. and Lambert, D. M. 2008. Molecular and morphological evolution in tuatara are decoupled. *Trends in Genetics* 25: 16–18.
- Tanaka, Y. 1998. Structure of the reptilian spleen. In: Gans, C. and Gaunt, A. S. (eds). *Biology of the Reptilia. Vol. 19. Morphology G. Visceral organs*. Society for the Study of Amphibians and Reptiles, Ithaca, New York, pp. 533–586.
- Tarakawa, T. 1911. Ko tuatara raua ko kumukumu: he korero tara (Tuatara and kumukumu: a fable; translated by the editor). *Journal of the Polynesian Society* 20: 39–41.
- Taylor, G. A. 1991. Flora and fauna of Plate (Motunau) Island, Bay of Plenty. *Tane* 33: 113–120.
- Taylor, R. 1848. *A leaf from the natural history of New Zealand, or, a vocabulary of its different productions, &c., &c., with their native names*. Robert Stokes, Wellington. 102 p.
- Taylor, R. 1855. *Te Ika a Maui, or, New Zealand and its inhabitants: illustrating the origin, manners, customs, mythology, religion, rites, songs, proverbs, fables, and language of the natives ...* Wertheim & MacIntosh, London. 490 p.
- Tennyson, A. and Pierce, R. 1995. The presence of Pycroft’s Petrel (*Pterodroma pycrofti*) and other petrels on Mauitaha Island, New Zealand. *Notornis* 42: 212–214.
- Terezow, M. 2005. *Circadian and ontogenetic changes in activity and anti-predator responses of captive juvenile tuatara (Sphenodon spp.)*. Unpublished MSc thesis, Victoria University of Wellington, Wellington. 85 p.
- Terezow, M. and Markwell, T. 2005. The circadian locomotor activity of tuatara (*Sphenodon* spp.): ontogenetic changes and proximate causes. In: Abstracts of papers presented at the 11th Biennial Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Springbrook National Park, south-east Queensland, Australia, 7–11 February 2005. *New Zealand Journal of Zoology* 32: 229.
- Terezow, M. G., Nelson, N. J. and Markwell, T. J. 2008. Circadian emergence and movement of captive juvenile tuatara (*Sphenodon* spp.). *New Zealand Journal of Zoology* 35: 205–216.
- Tetens, V., Brittain, T., Christie, D. L., Robb, J. and Wells, R. M. G. 1984. Characterization and function of isolated hemoglobins from the tuatara, *Sphenodon punctatus* (Reptilia: O. Rhynchocephalia). *Comparative Biochemistry and Physiology* 79B: 119–123.
- The Collector. 1913. Ancient reptile: the disappearing tuatara: efforts at preservation. *Evening Post*, Wellington, 11 June, p. 4.
- Thilenius, G. 1899. Vorläufiger Bericht über die Eiablage und erste Entwicklung der *Hatteria*

- punctata*. *Sitzungsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin* 1: 247–256.
- Thomas, A. P. W. 1890. Preliminary note on the development of the tuatara (*Sphenodon punctatum*). *Proceedings of the Royal Society of London B* 48: 152–156.
- Thomas, A. P. W. 1891. Preliminary note on the development of the tuatara (*Sphenodon punctatum*). *New Zealand Journal of Science* 1: 27–31.
- Thompson, M. and Daugherty, C. 1992. Living a lie: New Zealand's tuatara. *Australian Natural History* 23: 928–935.
- Thompson, M. B. 1989. Patterns of metabolism in embryonic reptiles. *Respiration Physiology* 76: 243–256.
- Thompson, M. B. 1990. Incubation of eggs of tuatara, *Sphenodon punctatus*. *Journal of Zoology, London* 222: 303–318.
- Thompson, M. B. and Daugherty, C. H. 1997. Metabolism of tuatara, *Sphenodon punctatus*, from Stephens Island. In: Abstracts of papers presented at the 7th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Kaikoura, New Zealand, 31 January–2 February 1997. *New Zealand Journal of Zoology* 24: 329.
- Thompson, M. B. and Daugherty, C. H. 1998. Metabolism of tuatara, *Sphenodon punctatus*. *Comparative Biochemistry and Physiology* 119A: 519–522.
- Thompson, M. B., Newman, D. G. and Watson, P. R. 1991. Use of oxytocin in obtaining eggs from tuatara (*Sphenodon punctatus*). *Journal of Herpetology* 25: 101–104.
- Thompson, M. B., Daugherty, C. H., Cree, A., French, D. C., Gillingham, J. C. and Barwick, R. E. 1992. Status and longevity of the tuatara, *Sphenodon guntheri*, and Duvaucel's gecko, *Hoplodactylus duvaucelii*, on North Brother Island, New Zealand. *Journal of the Royal Society of New Zealand* 22: 123–130.
- Thompson, M. B., Packard, G. C., Packard, M. J. and Rose, B. 1996. Analysis of the nest environment of tuatara *Sphenodon punctatus*. *Journal of Zoology, London* 238: 239–251.
- Thompson, M. B., Newman, D. G. and Watson, P. R. 1998. Influence of X-rays on incubation in tuatara, *Sphenodon punctatus*. *New Zealand Journal of Zoology* 25: 295–300.
- Thomson, J. A. 1915. The existing state of the tuatara (*Sphenodon punctatus* Gray), with some notes on its habits. Annual Report of the Dominion Museum for the year ending 31st March 1915. *Appendix to the Journals of the House of Representatives H-33*: 22–26.
- Thomson, J. A. 1920. Report of the Director, Dominion Museum. *Appendix to the Journals of the House of Representatives H-22*: 12–17.
- Thoresen, A. C. 1967. Ecological observations on Stanley and Green Islands Mercury Group. *Notornis* 14: 182–200.
- Tintinger, V. 1987. Breeding the tuatara *Sphenodon punctatus* at Auckland Zoo. *International Zoo Yearbook* 26: 183–186.

- Toft, R. 1999. Prehistoric treasures. *Pet Reptile* July: 25–28.
- Towns, D. R. 1991. Response of lizard assemblages in the Mercury Islands, New Zealand, to removal of an introduced rodent: the kiore (*Rattus exulans*). *Journal of the Royal Society of New Zealand* 21: 119–136.
- Towns, D. R. 2004. Sphenodontia: Tuatara (*Sphenodontidae*). In: Hutchins, M., Thoney, D. A. and McDade, M. C. (eds). *Grzimek's Animal Life Encyclopedia. Vol. 7. Reptiles*. Gale, Detroit, pp. 189–193.
- Towns, D. R. and Daugherty, C. H. 1994. Patterns of range contractions and extinctions in the New Zealand herpetofauna following human colonisation. *New Zealand Journal of Zoology* 21: 325–339.
- Towns, D. R. and Hayward, B. W. 1973. Reptiles of the Aldermen Islands. *Tane* 19: 93–100.
- Towns, D. R., Atkinson, I. A. E. and Daugherty, C. H. 1990. The potential for ecological restoration in the Mercury Islands. In: Towns, D. R., Atkinson, I. A. E. and Daugherty, C. H. (eds). *Ecological restoration of New Zealand islands*. Conservation Sciences Publication No. 2. Department of Conservation, Wellington, pp. 91–108.
- Towns, D. R., Daugherty, C. H. and Cree, A. 2001. Raising the prospects for a forgotten fauna: a review of 10 years of conservation effort for New Zealand reptiles. *Biological Conservation* 99: 3–16.
- Towns, D. R., Parrish, G. R., Tyrrell, C. L., Ussher, G. T., Cree, A., Newman, D. G., Whitaker, A. H. and Westbrooke, I. 2007. Responses of tuatara (*Sphenodon punctatus*) to removal of introduced Pacific rats from islands. *Conservation Biology* 21: 1021–1031.
- Towns, D. R., Bellingham, P. J., Mulder, C. P. H. and Lyver, P. O'B. 2012. A research strategy for biodiversity conservation on New Zealand's offshore islands. *New Zealand Journal of Ecology* 36: 1–20.
- Townsend, T. M., Larson, A., Louis, E. and Macey, J. R. 2004. Molecular phylogenetics of Squamata: the position of snakes, amphisbaenians, and dibamids, and the root of the squamate tree. *Systematic Biology* 53: 735–757.
- Tracy, M. R. 1997. Size variation in tuatara. In: Abstracts of papers presented at the 7th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Kaikoura, New Zealand, 31 January–2 February 1997. *New Zealand Journal of Zoology* 24: 330.
- Tribe, M. and Brambell, F. W. R. 1932. The origin and migration of the primordial germ-cells of *Sphenodon punctatus*. *Quarterly Journal of Microscopical Science* 75: 251–282 + plates 16–17.
- Tribe, M. and Fisk, A. 1940. The development of the hepatic venous system and excretory system in *Sphenodon punctatus*. *Proceedings of the Zoological Society of London Series B* 110: 153–182 + plates I–II.
- Tristem, M., Myles, T. and Hill, F. 1995. A highly divergent retroviral sequence in the tuatara

- (*Sphenodon*). *Virology* 210: 206–211.
- Tsuihiji, T. 2007. Homologies of the longissimus, iliocostalis, and hypaxial muscles in the anterior presacral region of extant Diapsida. *Journal of Morphology* 268: 986–1020.
- Twentyman, C. 1999. Diseases in New Zealand reptiles. *Surveillance* 26: 3–5.
- Tyrrell, C. 1993. *Corticosterone cycles in wild and captive tuatara (Sphenodon punctatus)*. Unpublished MSc thesis, University of Otago, Dunedin. 103 p.
- Tyrrell, C. L. 2000. *Reproductive ecology of northern tuatara (Sphenodon punctatus punctatus)*. Unpublished PhD thesis, University of Otago, Dunedin. 175 p.
- Tyrrell, C. 2001. *Sphenodon punctatus punctatus* (northern tuatara): reproduction. *Herpetological Review* 32: 39–40.
- Tyrrell, C. and Cree, A. 1994. Plasma corticosterone concentrations in wild and captive juvenile tuatara (*Sphenodon punctatus*). *New Zealand Journal of Zoology* 21: 407–416.
- Tyrrell, C. L. and Cree, A. 1998. Relationships between corticosterone concentration and season, time of day and confinement in a wild reptile (tuatara, *Sphenodon punctatus*). *General and Comparative Endocrinology* 110: 97–108.
- Tyrrell, C. and Cree, A. 1999. Hormonal response to short-term confinement stress in northern tuatara (*Sphenodon punctatus punctatus*) on rodent-free and rodent-inhabited islands. In: Abstracts of papers presented at the 8th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Great Barrier Island, New Zealand, 5–7 February 1999. *New Zealand Journal of Zoology* 26: 261.
- Tyrrell, C., Cree, A. and Guillette Jr, L. J. 1993. Low plasma corticosterone concentrations in wild tuatara (*Sphenodon punctatus*). In: Abstracts of papers presented at the 4th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Invercargill, New Zealand, 27–29 November 1992. *New Zealand Journal of Zoology* 20: 127.
- Tyrrell, C. L., Cree, A. and Towns, D. R. 2000. *Variation in reproduction and condition of northern tuatara (Sphenodon punctatus punctatus) in the presence and absence of kiore*. Science for Conservation No. 153. Department of Conservation, Wellington. 42 p.
- Tytle, T. 1988. The status of New Zealand reptiles exported live to the United States. *Moko*: 9–16.
- Underwood, G. 1970. The eye. In: Gans, C. and Parsons, T. S. (eds). *Biology of the Reptilia. Vol. 2. Morphology B*. Academic Press, London, pp. 1–97.
- Ung, C. Y.-J. and Molteno, A. C. B. 2004. An enigmatic eye: the histology of the tuatara pineal complex. *Clinical and Experimental Ophthalmology* 32: 614–618.
- Unger, L. 1914. Untersuchungen über die Morphologie und Faserung des Reptiliengehirnes. III. Das Vorderhirn der *Hatteria punctata* (*Sphenodon punctatum*). *Sitzungsberichte der mathematisch-naturwissenschaftliche. Klasse der kaiserlichen Akademie der Wissenschaften, Wien* 123: 293–318 + 3 Tafeln.
- Unthank, H. W. 1909. [On a skull of *Sphenodon* with abnormal nasal region]. *Proceedings of the*

- Zoological Society of London* 11: 666–667.
- Ussher, G. T. 1995. *Feeding ecology and dietary interactions of tuatara and kiore on the Chicken Islands*. Unpublished MSc thesis, University of Auckland, Auckland. 182 p.
- Ussher, G. T. 1999a. Dietary competition between kiore (*Rattus exulans*) and tuatara (*Sphenodon punctatus*) on the Chickens Islands. In: Abstracts of papers presented at the 8th Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Great Barrier Island, New Zealand, 5–7 February 1999. *New Zealand Journal of Zoology* 26: 261–262.
- Ussher, G. T. 1999b. Method for attaching radiotransmitters to medium-sized reptiles: trials on tuatara (*Sphenodon punctatus*). *Herpetological Review* 30: 151–153.
- Ussher, G. 1999c. *Restoration of threatened species populations: tuatara rehabilitations and re-introductions*. Unpublished PhD thesis, University of Auckland, Auckland. 217 p.
- Ussher, G. T. 1999d. Tuatara (*Sphenodon punctatus*) feeding ecology in the presence of kiore (*Rattus exulans*). *New Zealand Journal of Zoology* 26: 117–125.
- Various authors. 1982. General discussion on the tuatara. In: Newman, D. G. (ed.). *New Zealand herpetology*. New Zealand Wildlife Service Occasional Publication No. 2, Wellington, pp. 289–298.
- Vidal, N. and Hedges, S. B. 2005. The phylogeny of squamate reptiles (lizards, snakes, and amphisbaenians) inferred from nine nuclear protein-coding genes. *Comptes Rendus Biologies* 328: 1000–1008.
- Vilter, V. 1951a. Valeur morphologique des photorécepteurs rétiniens chez la Hatterie (*Sphenodon punctatus*). *Comptes Rendus Société de Biologie* 145: 20–23.
- Vilter, V. 1951b. Organisation générale de la rétine nerveuse chez le *Sphenodon punctatus*. *Comptes Rendus Société de Biologie* 145: 24–26.
- Vilter, V. 1951c. Recherches sur les structures fovéales dans la rétine du *Sphenodon punctatus*. *Comptes Rendus Société de Biologie* 145: 26–29.
- Virchow, H. 1901. Ueber die Netzhaut von *Hatteria*. *Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin* 1901: 42–62.
- von Wettstein, O. 1931. 1. Ordnung der Klasse Reptilia: Rhynchocephalia. In: Kükenthal, W. G. and Krumbach, T. (eds). *Handbuch der Zoologie: eine Naturgeschichte der Stamme des Tierreiches. Vol. Bd 7 Half 1 Lfg 1–2*. W. de Gruyter, Berlin, pp. 1–235.
- von Wettstein, O. 1943. *Sphenodon punctatus reischeki* nov. subsp. *Zoologisches Anzeiger* 143: 45–47.
- Wade, W. R. 1842. *A journey in the northern island of New Zealand: interspersed with various information relative to the country and people*. George Rolwegan, Hobart Town. 206 p.
- Walls, G. L. 1935. A comprehensive morphology of *Sphenodon*. *Science* (New Series) 82: 391.
- Walls, G. L. 1942. *The vertebrate eye and its adaptive radiation*. The Cranbrook Institute of Science New York. Reprinted 1963, Hafner Publishing, New York, 785 p.

- Walls, G. Y. 1978. The influence of the tuatara on fairy prion breeding on Stephens Island, Cook Strait. *New Zealand Journal of Ecology* 1: 91–98.
- Walls, G. Y. 1981. Feeding ecology of the tuatara (*Sphenodon punctatus*) on Stephens Island, Cook Strait. *New Zealand Journal of Ecology* 4: 89–97.
- Walls, G. Y. 1982. Provisional results from a study of the feeding ecology of the tuatara (*Sphenodon punctatus*) on Stephens Island. In: Newman, D. G. (ed.). *New Zealand herpetology*. New Zealand Wildlife Service Occasional Publication No. 2, Wellington, pp. 271–276.
- Walls, G. Y. 1983. Activity of the tuatara and its relationships to weather conditions on Stephens Island, Cook Strait, with observations on geckos and invertebrates. *New Zealand Journal of Zoology* 10: 309–318.
- Wang, Z., Miyake, T., Edwards, S. V. and Amemiya, C. T. 2006. Tuatara (*Sphenodon*) genomics: BAC library construction, sequence survey, and application to the DMRT gene family. *Journal of Heredity* 97: 541–548.
- Ward, H. A. 1882. The *Hatteria* (*Sphenodon*) *punctatus*. *Ward's Natural Science Bulletin* 1: 14–15.
- Waters, J. M. and Craw, D. 2006. Goodbye Gondwana? New Zealand biogeography, geology, and the problem of circularity. *Systematic Biology* 55: 351–356.
- Weatherhead, B. 1971. Cytology of the neuro-intermediate lobe of the tuatara, *Sphenodon punctatus* Gray. *Zeitschrift für Zellforschung und Mikroskopische Anatomie* 119: 21–42.
- Webb, G. J. W., Heatwole, H. and de Bavay, J. 1974. Comparative cardiac anatomy of the Reptilia II. A critique of the literature on the Squamata and Rhynchocephalia. *Journal of Morphology* 142: 1–20.
- Webber, G. W. 1953. Tuatara quest: the doctor from Bremen. *Weekly News*, Auckland, 24 June, p. 36.
- Weber, R. E., Kleinschmidt, T., Abbassi, A., Wells, R. M. G. and Braunitzer, G. 1989. Allosteric transition in hemoglobin ($\alpha_2^A\beta_2^I$) from the rhynchocephalian reptile relict *Sphenodon punctatus*. *Hemoglobin* 13: 625–636.
- Wells, R. M. G. 1991. Respiration and haemoglobin function in the tuatara, *Sphenodon punctatus*. In: Abstracts of papers presented at the 3rd Annual Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Whitianga, Coromandel Peninsula, 28–30 November 1990. *New Zealand Journal of Zoology* 18: 347.
- Wells, R. M. G., Tetens, V. and Brittain, T. 1983. Absence of cooperative haemoglobin-oxygen binding in *Sphenodon*, a reptilian relict from the Triassic. *Nature* 306: 500–502.
- Wells, R. M. G., Tetens, V., Housley, G. D., Young, A. A., Dawson, N. J. and Johansen, K. 1990. Effect of temperature on control of breathing in the cryophilic rhynchocephalian reptile, *Sphenodon punctatus*. *Comparative Biochemistry and Physiology* 96A: 333–340.
- Werner, F. 1893. Beobachtungen an *Sphenodon* (*Hatteria*) *punctatus*. *Zoologische Garten* 34: 335–339.
- Werner, G. 1962. Das Cranium der Brückenechse, *Sphenodon punctatus* Gray, von 58 mm

- Gesamtlänge. *Zeitschrift für Anatomie und Entwicklungsgeschichte* 123: 323–368.
- Werner, G. 1963. Über das vitalische Organ bei *Sphenodon punctatus* Gray. *Zeitschrift für Anatomie und Entwicklungsgeschichte* 123: 498–504.
- Werner, Y. L. and Whitaker, A. H. 1978. Observations and comments on the body temperatures of some New Zealand reptiles. *New Zealand Journal of Zoology* 5: 375–393.
- Whitaker, A. H. 1978. The effects of rodents on reptiles and amphibians. *New Zealand Department of Lands and Survey Information Series* 4: 75–86.
- White, F. N. 1959. Circulation in the reptilian heart (Squamata). *Anatomical Record* 135: 129–134.
- Whiteside, D. I. 1986. The head skeleton of the Rhaetian sphenodontid *Diphydontosaurus avonis* gen. et sp. nov. and the modernizing of a living fossil. *Philosophical Transactions of the Royal Society of London B* 312: 379–430.
- Whitworth, E. 2006. *Photothermal orientation and factors associated with egg incubation success in tuatara (Sphenodon punctatus)*. Unpublished MSc thesis, University of Otago, Dunedin. 95 p.
- Wilkinson, M. and Benton, M. J. 1996. Sphenodontid phylogeny and the problems of multiple trees. *Philosophical Transactions of the Royal Society of London B* 351: 1–16.
- Willnow, I. and Willnow, R. 1976. Bauplan der Lunge von *Sphenodon punctatus*. *Acta Anatomica* 94: 504–519.
- Wilson, J. 2010. *Population viability and resource competition on North Brother Island: conservation implications for tuatara (Sphenodon punctatus) and Duvaucel's gecko (Hoplodactylus duvaucelii)*. Unpublished MSc thesis, Victoria University of Wellington, Wellington. 99 p.
- Wilson, K. J. and Lee, A. K. 1970. Changes in oxygen consumption and heart-rate with activity and body temperature in the tuatara, *Sphenodon punctatum*. *Comparative Biochemistry and Physiology* 33: 311–322.
- Woerner, L. L. B. and Nelson, N. J. 2010. Competition for space and food in tuatara (*Sphenodon* spp.) head-starting facilities. In: Abstracts of papers presented at the Second Meeting of Australasian Societies for Herpetology (Society for Research on Amphibians and Reptiles in New Zealand and the Australia Society for Herpetologists), Massey University, Auckland, New Zealand, 20–22 February 2009. *New Zealand Journal of Zoology* 37: 104–105.
- Wojtusiak, R. J. 1973. Some ethological and biological observations on the tuatara in laboratory conditions. *Tuatara* 20: 97–109.
- Wojtusiak, R. J. and Majlert, Z. 1973. Bioacoustics of the voice of the tuatara, *Sphenodon punctatus punctatus*. *New Zealand Journal of Science* 16: 305–313.
- Woo, K. L. 2004. *Acquisition of a learned operant and critical flicker-fusion rate in the tuatara (Sphenodon spp.)*. Unpublished MSc thesis, Victoria University of Wellington, Wellington. 70 p.
- Woo, K. L., Hunt, M., Harper, D., Nelson, N. J., Daugherty, C. H. and Bell, B. D. 2005. Acquisition of a learned operant and critical flicker-fusion rate in tuatara (*Sphenodon*). In: Abstracts of

- papers presented at the 11th Biennial Conference of the Society for Research on Amphibians and Reptiles in New Zealand, Springbrook National Park, south-east Queensland, Australia, 7–11 February 2005. *New Zealand Journal of Zoology* 32: 232.
- Woo, K. L., Hunt, M., Harper, D., Nelson, N. J., Daugherty, C. H. and Bell, B. D. 2009. Discrimination of flicker frequency rates in the reptile tuatara (*Sphenodon*). *Naturwissenschaften* 96: 415–419.
- Wood, D. 1967. Breeding tuataras *Sphenodon punctatus* at Auckland Zoo. *International Zoo Yearbook* 7: 178–179.
- Wood, J. 2006. Subfossil kakapo (*Strigops habroptilus*) remains from near Gibraltar Rock, Cromwell Gorge, Central Otago, New Zealand. *Notornis* 53: 191–193.
- Wood, J. R. 2009. Two Late Quaternary avifaunal assemblages from the Dunback district, eastern Otago, South Island, New Zealand. *Notornis* 56: 154–157.
- Woodland, W. N. F. 1921. Some observations on caudal autotomy and regeneration in the gecko (*Hemidactylus flaviviridis* Ruppel), with notes on the tails of *Sphenodon* and *Pygopus*. *Quarterly Journal of Microscopical Science* 65: 63–100.
- Wörner, L. L. B. 2009. *Aggression and competition for space and food in captive juvenile tuatara (Sphenodon punctatus)*. Unpublished MSc thesis, Victoria University of Wellington, Wellington. 103 p.
- Worthy, T. H. 1984. Faunal and floral remains from F1, a cave near Waitomo. *Journal of the Royal Society of New Zealand* 14: 367–377.
- Worthy, T. H. 1991. Fossil skink bones from Northland, New Zealand, and description of a new species of *Cyclodina*, Scincidae. *Journal of the Royal Society of New Zealand* 21: 329–348.
- Worthy, T. H. 1997. Quaternary fossil fauna of South Canterbury, South Island, New Zealand. *Journal of the Royal Society of New Zealand* 27: 67–162.
- Worthy, T. H. 1998a. Quaternary fossil faunas of Otago, South Island, New Zealand. *Journal of the Royal Society of New Zealand* 28: 421–521.
- Worthy, T. H. 1998b. The Quaternary fossil avifauna of Southland, South Island, New Zealand. *Journal of the Royal Society of New Zealand* 28: 537–589.
- Worthy, T. H. 1998c. A remarkable fossil and archaeological avifauna from Marfells Beach, Lake Grassmere, South Island, New Zealand. *Records of the Canterbury Museum* 12: 79–176.
- Worthy, T. H. 1998d. *Fossil deposits in Megamania Cave, Gunner River, South Island, New Zealand*. Conservation Advisory Science Notes No. 195. Department of Conservation, Wellington. 14 p.
- Worthy, T. H. 2000. Two late-Glacial avifaunas from eastern North Island, New Zealand – Te Aute Swamp and Wheturau Quarry. *Journal of the Royal Society of New Zealand* 30: 1–26.
- Worthy, T. H. 2001. A fossil vertebrate fauna accumulated by laughing owls (*Sceloglaux albifacies*) on the Goulard Downs, northwest Nelson, South Island. *Notornis* 48: 225–233.

- Worthy, T. H. and Grant-Mackie, J. A. 2003. Late-Pleistocene avifaunas from Cape Wanbrow, Otago, South Island, New Zealand. *Journal of the Royal Society of New Zealand* 33: 427–485.
- Worthy, T. H. and Holdaway, R. N. 1993. Quaternary fossil faunas from caves in the Punakaiki area, West Coast, South Island, New Zealand. *Journal of the Royal Society of New Zealand* 23: 147–254.
- Worthy, T. H. and Holdaway, R. N. 1994. Quaternary fossil faunas from caves in Takaka Valley and on Takaka Hill, northwest Nelson, South Island, New Zealand. *Journal of the Royal Society of New Zealand* 24: 297–391.
- Worthy, T. H. and Holdaway, R. N. 1995. Quaternary fossil faunas from caves on Mt Cookson, North Canterbury, South Island, New Zealand. *Journal of the Royal Society of New Zealand* 25: 333–370.
- Worthy, T. H. and Holdaway, R. N. 1996. Quaternary fossil faunas, overlapping taphonomies, and palaeofaunal reconstruction in North Canterbury, South Island, New Zealand. *Journal of the Royal Society of New Zealand* 26: 275–361.
- Worthy, T. H. and Holdaway, R. N. 2000. Terrestrial fossil vertebrate faunas from inland Hawke's Bay, North Island, New Zealand. Part 1. *Records of the Canterbury Museum* 14: 89–154.
- Worthy, T. H. and Holdaway, R. N. 2002. *The lost world of the moa: prehistoric life of New Zealand*. Canterbury University Press, Christchurch. 718 p.
- Worthy, T. H. and Roscoe, D. 2003. Takaka Fossil Cave – a stratified Late Glacial to Late Holocene deposit from Takaka Hill, New Zealand. *Tuhinga* 14: 41–60.
- Worthy, T. H., Holdaway, R. N., Alloway, B. V., Jones, J., Winn, J. and Turner, D. 2002a. A rich Pleistocene-Holocene avifaunal sequence from Te Waka #1: terrestrial fossil vertebrate faunas from inland Hawke's Bay, North Island, New Zealand. Part 2. *Tuhinga* 13: 1–38.
- Worthy, T. H., Tennyson, A. J. D., Jones, C. and McNamara, J. A. 2002b. A diverse early-Miocene (15–20 MA) terrestrial fauna from New Zealand reveals snakes and mammals. In: Brock, G. A. and Talent, J. A. (eds). *IPC2002 (First International Palaeontological Congress)*. Geological Society of Australia, Sydney, pp. 174–175 (abstract).
- Worthy, T. H., Miskelly, C. M. and Ching, B. R. A. 2002c. Taxonomy of South Island snipe (Aves: Scolopacidae: Coenocorypha), with analysis of a remarkable collection of snipe bones from Greymouth, New Zealand. *New Zealand Journal of Zoology* 29: 231–244.
- Wright, A. 1961. Fairy prion chick attacked by tuatara. *Notornis* 9: 133.
- Wright, A. 1963. Predation on fairy prions. *Notornis* 10: 187.
- Wu, X.-C. 2003. Functional morphology of the temporal region in the Rhynchocephalia. *Canadian Journal of Earth Science* 40: 589–607.
- Wyeth, F. J. 1920. On the development of the auditory apparatus in *Sphenodon punctatus*. *Proceedings of the Royal Society of London B* 91: 224–228.
- Wyeth, F. J. 1924a. The development of the auditory apparatus in *Sphenodon punctatus*; with an

- account of the visceral pouches, aortic arches, and other accessory structures. *Philosophical Transactions of the Royal Society of London B* 212: 259–368 + plates 11–17.
- Wyeth, F. J. 1924b. The development and neuromery of the fore-brain in *Sphenodon punctatus*, with special reference to the presence and neuromeric significance of certain paired metameric diverticula of the central cavity of the fore-brain. *Proceedings of the Zoological Society of London* 1924: 923–959 + plates I–IX.
- Wyeth, F. J. 1925. The development and neuromery of the mid-brain and the hind-brain in *Sphenodon punctatus*. *Proceedings of the Zoological Society of London* 1925: 507–558.
- Wyeth, F. J. and Row, R. W. H. 1923. The structure and development of the pituitary body in *Sphenodon punctatus*. *Acta Zoologica* 4: 1–63.
- Wylie, A. P., Veale, A. M. O. and Sands, V. E. 1968. The chromosomes of the tuatara. *Proceedings of the University of Otago Medical School* 46: 22–23.