

# 11<sup>TH</sup> INTERNATIONAL PENGUIN CONGRESS

## SCIENTIFIC PROGRAM

Version 1 (25 Aug 2023)



Sunday 3 <sup>rd</sup> September 2023	
Pre-congress workshops Universidad Andrés Bello. Quillota 980, Viña del Mar	
10:30-12:30	Workshops 2 and 4
12:30-13:30	Lunch
13:30-15:30	Workshops 1, 2, 4, and 5
15:30-16:00	Coffee break
16:00-18:30	Workshops 1 and 5
Hotel Bosque de Reñaca Dublé Almeyda N°80, Reñaca, Viña del Mar	
15:00-20:00	Registration desk open

Workshop 1: Abundance estimation in *Spheniscus* penguins: challenges and opportunities. **Andrea Raya Rey and Ulises Balza**

Workshop 2: Avian influenza in penguins. **Meagan Dewar**

Workshop 4: Microplastics and Penguins. **Brian Walker**

Workshop 5: Use of pit-tags in penguins. **Katta Ludynia**

Monday 4 <sup>th</sup> September 2023	
08:30-17:30	Registration desk open
09:00-09:45	Welcome and opening, homage presentations: Remembering Daniel González (Chile) and Andrés Barbosa (Spain), presentation Camilo Fund.
09:45-10:30	Keynote 1: A decade of genetics studies contributing to penguin knowledge and conservation. <b>Juliana Vianna</b>
10:30-11:00	Morning coffee break
11:00-12:30	<b>Oral presentations 1: Genetics</b> <ol style="list-style-type: none"> <li>At the zoo, King penguins live longer, but age faster: methylation patterns reveal the cost of a sedentary life for an active bird. <b>Cristofari et al.</b></li> <li>Genetic analysis of HPAIV H5N1 clade 2.3.4.4b in Humboldt penguins, Chile 2023. <b>Ariyama et al.</b></li> <li>Genomes of banded penguins suggest islands of differentiation during ecological speciation. <b>Pizzarro et al.</b></li> <li>Major Histocompatibility Complex (MHC) and mate choice in the Magellanic penguin, <i>Spheniscus magellanicus</i>. <b>Dantas et al.</b></li> <li>Species delimitation beyond phylogenomics: integrative approaches reveal gentoo penguin speciation. <b>Noll et al.</b></li> <li>Uncovering population structure in the endangered Northern rockhopper penguin (<i>Eudyptes moseleyi</i>) across islands in the southern Indian and Atlantic Oceans. <b>Ritchie-Parker et al.</b></li> </ol>
12:30-14:00	Lunch
14:00-15:30	<b>Oral presentations 2: Microbiology and diseases</b> <ol style="list-style-type: none"> <li>Effects of ectoparasites on the foraging behaviour of an Antarctic penguin. <b>Morandini et al.</b></li> <li>Finding the causative agents of infectious diseases affecting hoiho (yellow-eyed penguins) in New Zealand. <b>Wierenga et al.</b></li> <li>Lab-In-A-Suitcase: Rapid, field-based portable device for wildlife disease surveillance in the field. <b>Dewar et al.</b></li> <li>Population health evaluation and monitoring of Humboldt penguins (<i>Spheniscus humboldti</i>) at Punta San Juan, Peru from 2007-2023. <b>Adkesson et al.</b></li> <li>The influence of biotic and abiotic factors on the bacterial microbiome of gentoo penguins (<i>Pygoscelis papua</i>) across the Scotia Arc. <b>Kaczvinsky et al.</b></li> <li>Unique composition and neutral process characterize the bacterial communities in multiple body sites of the Magellanic and king penguins. <b>Ochoa et al.</b></li> </ol>
15:30-16:00	Afternoon coffee break
16:00-16:45	<b>Oral presentations 3: Physiology and toxicology</b> <ol style="list-style-type: none"> <li>Temporal trends of Hg in emperor penguin eggs over a 10-year period. <b>Bustamante et al.</b></li> <li>Circumpolar assessment of mercury contamination: the Adélie penguin as bioindicator of Antarctic marine ecosystems. <b>Cusset et al.</b></li> <li>Faecal hormone analysis as a non-invasive tool for assessing stress in the Pōhatu Kororā (<i>Eudyptula minor</i>) colony, Aotearoa. <b>Howell et al.</b></li> </ol>
19:00-21:30	Official congress opening, cocktail at Palacio Vergara, Viña del Mar.

Tuesday 5 <sup>th</sup> September 2023	
08:25-08:30	Announcements
08:30-08:45	Celebrating Rory Wilson (presentation by Flavio Quintana):
08:45-09:30	Keynote 2: From musing to marveling: Inroads into understanding penguins at sea. <b>Rory Wilson</b>
09:30-10:45	<b>Oral presentations 4: Foraging ecology</b> 16. Camera logger footage highlights the unique foraging behaviour of King penguins breeding in Bahía Inútil, Tierra del Fuego, Chile. <b>Pütz and ChereI</b> 17. Changing diets over time: knock-on effects of marine megafauna overexploitation on their competitor <i>Spheniscus magellanicus</i> in the South-Western Atlantic. <b>Bas et al.</b> 18. Chasing the fish with little penguins: spatial and temporal variability in relation to environmental conditions. <b>Guillet et al.</b> 19. Compensating for harsh conditions at sea: plasticity of king penguin foraging strategies facing an experimental increase in workload. <b>Lemmonier et al.</b> 20. DNA metabarcoding of faecal matter informs on African penguins' diet in South Africa. <b>Connan et al.</b>
10:45-11:15	Morning coffee break
11:15-12:30	<b>Oral presentations 5: Foraging ecology 2</b> 21. Does age matter? Foraging behavior and stress of known-age breeding Magellanic penguins <i>Spheniscus magellanicus</i> at Matillo Isl., Argentina. <b>Harris et al.</b> 22. Fishery-penguin conflict: more than just spatial overlap. <b>Glencross et al.</b> 23. Foraging behavior, personality, and nutritional condition of breeding chinstrap penguins from Deception Island, South Shetlands, Antarctica. <b>Morandini et al.</b> 24. Foraging strategies of Magellanic penguins from a central Patagonian colony during the incubation period. <b>Blanco et al.</b> 25. Inter-annual consistency in the phenology and trophic niche of the Southern Rockhopper penguins from Isla de los Estados, Tierra del Fuego, Argentina. <b>Dodino et al.</b>
12:30-14:00	Lunch
14:00-15:45	<b>Oral presentations 6: Foraging ecology 3</b> 26. Key foraging areas for Adélie penguins from a declining colony in the Western Antarctic Peninsula. <b>Machado-Gaye et al.</b> 27. Longitudinal, full-annual cycle study of Adélie penguin foraging behavior reveals within-individual changes with age. <b>Lescroël et al.</b> 28. Resources, risks and refugia: assessing the spatial overlap between yellow-eyed penguin foraging distribution, prey, commercial fisheries, and marine protected. <b>Hickcox et al.</b> 29. Seeing the sea through the eyes of Humboldt penguins - how do things look in the face of growing anthropogenic threats? <b>Ellenberg et al.</b> 30. Sex, but not size, is related to foraging success and efficiency in Magellanic penguins. <b>Holt and Boersma</b> 31. Stable isotope ecology of two declining sub-Antarctic penguins: the erect-crested penguin and the Eastern rockhopper penguin. <b>White et al.</b> 32. Videos indicate that Adélie penguins catch more prey under ice, does acceleration data tell a different story? <b>Winqvist et al.</b>
15:45-16:15	Afternoon coffee break
16:15-17:30	Poster session
17:30-18:45	IUCN SSC Penguin Specialist Group open session
19:45-21:45	Early career workshops. Coordinator: Alex Thornton

Wednesday 6 <sup>th</sup> September 2023	
08:30-10:30	Early career workshops. Coordinator: Alex Thornton
10:30-11:00	Morning coffee break
11:00-12:45	<b>Oral presentations 7: Management and conservation 1</b> 33. Climate and human impacts on global penguin hotspots: current assessments for conservation. <b>Gimeno et al.</b> 34. Conservation success and failure: How human disturbance shaped the fate of penguins. <b>Garcia-Borboroglu et al.</b> 35. Exploring threats: changes in a declining Humboldt penguin population and its association with fishing activity and environmental conditions inside the species' foraging range. <b>Doig-Alba et al.</b> 36. Humboldt penguin status and conservation plan: A report on the 2019 PHVA, Lima, Peru. <b>McGill et al.</b> 37. Insights on Galápagos penguins from a 50+ year study. <b>Boersma et al.</b> 38. IUCN SSC Penguin Specialist Group - member feedback and way forward. <b>Waller et al.</b> 39. Magellanic penguins as a keystone species in Patagonian coastal systems. <b>Entringer Jr. et al.</b>
12:45-14:00	Lunch

14:00-15:45	<p><b>Oral presentations 8: Management and conservation 2</b></p> <p>40. "Safe Operating Space for Penguins (SOSPEN)" initiative: a global effort towards the IUCN-Penguin Specialist Group vision of "penguins in perpetuity". <b>Zajková et al.</b></p> <p>41. The catalytic role of ESG investment in resolving the current fisheries – penguin impasse in South Africa. <b>Waller et al.</b></p> <p>42. To count or not to count: comparing metrics of reproductive success in Adélie penguins. <b>Elrod et al.</b></p> <p>43. Tracing seal predation back to the source colony of their penguin prey: a trace element and stable isotope analysis. <b>Reinhold et al.</b></p> <p>44. Creating spaces for Humboldt penguin conservation in Ica, southern Peru. <b>Ormeño et al.</b></p> <p>45. Waddling to success: Using little penguins as a model for business strategy. <b>McKelson</b></p> <p>46. Conservation of Humboldt penguins in Chile: are we doing enough? <b>Simeone</b></p>
15:45-16:15	Afternoon coffee break
16:15-17:30	Poster session
20:30-22:30	"Penwine" evening

<b>Thursday 7<sup>th</sup> September 2023</b>	
08:25-08:30	Announcements
08:30-09:15	Keynote 3: The Antarctic Penguin Biogeography Project and the Penguinindex provide models for data curation and exploration with opportunities for expansion to all penguin species. <b>Heather Lynch</b>
09:15-10:30	<p><b>Oral presentations 9: Migration and dispersal</b></p> <p>47. Birds of a feather flock together? Winter dispersion of Southern rockhopper and Magellanic penguins. <b>Barrionuevo et al.</b></p> <p>48. Sex-specific migratory behavior in Magellanic penguins results in more risks for females. <b>Rebstock and Boersma</b></p> <p>49. Disparate dispersal behavior of fledgling Adélie penguins from two colonies on Ross Island. <b>Ballard et al.</b></p> <p>50. Going with the flow: Adélie Penguins adjust to sea-ice movement during winter migration. <b>Jongsomjit et al.</b></p> <p>51. Spatial assignment of winter migration of Magellanic penguin (<i>Spheniscus magellanicus</i>) using predator-based isotopic landscapes. <b>Gonzalez et al.</b></p>
10:30-11:00	Morning coffee break
11:00-12:30	<p><b>Oral presentations 10: Monitoring 1</b></p> <p>52. A Multi-UAV approach to surveying large penguin colonies. <b>Schmidt et al.</b></p> <p>53. Association between molt and breeding phenology helps explain the recent decline in breeding Humboldt penguins at Punta San Juan, Peru. <b>Cárdenas-Alayza et al.</b></p> <p>54. Cape Royds penguin colony trends revisited. <b>Ainley et al.</b></p> <p>55. Contrasting environmental conditions precluding lower availability of Antarctic krill: the train of consequences for a chinstrap penguin population in the Western Antarctic Peninsula. <b>Salmerón et al.</b></p> <p>56. Decreasing trends of chinstrap penguin breeding colonies on a region of major and ongoing rapid environmental changes suggest population level vulnerability. <b>Krüger</b></p> <p>57. Divided home, divided fate: The mystery behind divergent populations trends of Erect-crested penguins on subantarctic islands. <b>Mattern et al.</b></p>
12:30-14:00	Lunch
14:00-15:30	<p><b>Oral presentations 11: Monitoring 2</b></p> <p>58. First estimates of male and female survival for the rare and endangered Galápagos penguin. <b>Cappello et al.</b></p> <p>59. How a rover should approach penguins to get scientific data without disturbance. <b>Le Maho et al.</b></p> <p>60. Penguins and ARGOS satellites telemetry: A long story of migration monitoring. <b>Baudel</b></p> <p>61. Prey-mediated environmental effects on little penguins: using sailing drone to monitor the marine ecosystem. <b>Saraux et al.</b></p> <p>62. Re-establishing an African Penguin colony at the De Hoop Nature Reserve, South Africa. <b>Hagen et al.</b></p> <p>63. The status and trends of Macquarie Island penguins. <b>McInnes et al.</b></p>
15:30-16:00	Afternoon coffee break
16:00-17:15	Poster session
18:15-21:15	Early career workshops. Coordinator: Alex Thornton

Friday 8 <sup>th</sup> September 2023	
08:25-08:30	Announcements
08:30-09:15	Keynote 4: Protecting penguins and preserving oceans: Conservation efforts in Tierra del Fuego and Southern South America. <b>Andrea Raya Rey</b>
09:15-10:30	<b>Oral presentations 12: Climate change</b> 64. Alarming prediction: Climate change effects on sympatric penguins of <i>Pygoscelis</i> genus. <b>Weinberger et al.</b> 65. Marine heatwaves in Western Australia affect breeding, diet and population size but not body condition of a range-edge little penguin colony. <b>Cannell et al.</b> 66. Record phenological responses to climate change in three sympatric penguin species. <b>Juarez et al.</b> 67. Sea ice concentration decline in an important Adélie penguin molt area. <b>Schmidt et al.</b> 68. Surviving the Heat: increasing ocean temperature and shifting breeding patterns of little penguins by the 22nd Century. <b>Chiaradia et al.</b>
10:30-11:00	Morning coffee break
11:00-12:30	<b>Oral presentations 13: Behavior, breeding, and life history</b> 69. Adaptive phenotypic programming to social density in king penguins. <b>Lemmonnier et al.</b> 70. Initial asymmetry: The effect within Magellanic penguin ( <i>Spheniscus magellanicus</i> ) broods in a cross-fostering experiment. <b>Marchisio et al.</b> 71. Investigating the effects of early growth on little penguins' life-history traits. <b>Wintz et al.</b> 72. Patterns of skipped breeding and reproductive success in Magellanic penguins ( <i>Spheniscus magellanicus</i> ). <b>Wagner and Boersma</b> 73. The neglected penguin: Reviewing the breeding of the Erect-crested penguin, <i>Eudyptes sclateri</i> . <b>Davis et al.</b> 74. Unpacking the lifelong secrets of little penguins: Individual quality, energy allocation, and stochasticity in defining fitness. <b>Joly et al.</b>
12:30-14:00	Lunch
14:00-15:30	Awards Next congress announcements Final words
15:30-16:00	Afternoon coffee break
19:00-00:00	Dinner, dance

Saturday 9 <sup>th</sup> September 2023	
10:00-16:00	Field trip to Cachagua (Zapallar), observation of Humboldt penguins.

Poster presentations	
<b>Behaviour and breeding</b>	<ol style="list-style-type: none"> <li>1. Antarctic weathervanes: penguin position in the nest sways with the wind. <b>Palomino et al.</b></li> <li>2. Circadian activity patterns of Magellanic penguins on land: the influence of light and temperature. <b>Entringer Jr. et al.</b></li> <li>3. Deducing breeding success of the African Penguin, <i>Spheniscus demersus</i>, from automated transponder reader data to reduce disturbance. <b>Mnyekemfu et al.</b></li> <li>4. Do Adélie penguins care about boundaries? Spatio-temporal consistency in the wintering behaviour of Antarctic sentinel species – implications for conservation. <b>Zajková et al.</b></li> <li>5. Does haematology reflect at-sea movements in Magellanic penguins during the chick-rearing stage? <b>Vanstreels et al.</b></li> <li>6. Examining the impact of food availability and nest structure on reproductive success of <i>Spheniscus humboldti</i> in Choros Island, Reserva Nacional Pinguinos de Humboldt. <b>Seguel et al.</b></li> <li>7. Fearless penguins, unfazed by <i>Felis catus</i>: Different behavioural and physiological stress responses of two populations of little penguins differing in levels of risk and disturbance. <b>Schaefer and Colombelli-Négrel.</b></li> <li>8. Humboldt penguin behavioral responses reveals how to improve tourism guidelines in a marine protected area. <b>Irigoin-Lovera et al.</b></li> <li>9. King penguin (<i>Aptenodytes patagonicus</i>) sightings and breeding attempts at Martillo Island, Tierra del Fuego, Argentina. <b>Scioscia et al.</b></li> <li>10. King Penguin locomotion on land: Biomechanical modeling and video footage analysis. <b>Ashlyn et al.</b></li> <li>11. Magellanic penguin <i>Spheniscus magellanicus</i> chick with two cloacae and four legs. <b>Harris et al.</b></li> <li>12. Offspring sex, hatching order, and brood reduction: different strategies lead to different sex ratios? <b>Barrionuevo et al.</b></li> <li>13. Studying phenology and reproductive biology of southern rockhopper penguins using time-lapse cameras combined with individual marking. <b>Millones et al.</b></li> </ol>

<b>Biogeography</b>	<p>14. Bayesian additive regression trees (BART) applied to global-scale species distribution models (SDMs): present and future projections of penguin species. <b>Fuster-Alonso et al.</b></p> <p>15. Ecological niche modelling to elucidate the history and fate of penguins. <b>Pertierra et al.</b></p> <p>16. The geographic patterns of penguin's evolution. <b>Santos et al.</b></p>
<b>Captivity</b>	<p>17. 15 years of Spheniscus rehabilitation in Chile. <b>Hernandez et al.</b></p> <p>18. Artificial incubation of African penguin eggs rescued from breeding colonies to bolster the wild population. <b>Cadman et al.</b></p> <p>19. Grapiprant as a treatment for early onset osteoarthritis in a Gentoo penguin (<i>Pygoscelis papua</i>). <b>Grima and Clements-Ponting</b></p> <p>20. Recovery attempt of the captive population by using artificial insemination technique of Southern rockhopper penguin (<i>Eudyptes chrysocome</i>). <b>Ito et al.</b></p> <p>21. Rehabilitation of Humboldt penguins (<i>Spheniscus humboldti</i>) after an oil spill in Lima – Peru. <b>Delgado et al.</b></p> <p>22. The survey of the prevalence of osteoarthritis in captive Humboldt penguins (<i>Spheniscus humboldti</i>). <b>Shirakata</b></p>
<b>Climate change</b>	<p>23. Adaptation capabilities to global warming in an endothermic marine predator, the king penguin: Consequences of body size on diving performance. <b>Oberlin et al.</b></p> <p>24. Penguins on the move: habitat availability and climate connectivity among present and future climate analogues. <b>Bas et al.</b></p> <p>25. The hotter, the worst: Little penguin population responses to increasing ocean temperatures in New Zealand. <b>Ramírez et al.</b></p>
<b>Foraging ecology</b>	<p>26. Are penguins “what they drink”? Relationships between eggshell carbonate and dietary water oxygen stable isotope values. <b>Polito and Dawson</b></p> <p>27. Developing refined foraging performance metrics that reflect energy expenditure in an endangered diving seabird, the African Penguin. <b>Weideman et al.</b></p> <p>28. Dietary plasticity of endangered Northern rockhopper penguins in the South Atlantic. <b>Connan et al.</b></p> <p>29. Effects of rivers on seabird foraging ecology. <b>Morais et al.</b></p> <p>30. The fish component of Adélie, gentoo and chinstrap penguin diets breeding on two Islands in the South Shetland Archipelago. <b>Karnovsky et al.</b></p>
<b>Genetics</b>	<p>31. Genetic characteristics of a captive population of little penguin (<i>Eudyptula minor</i>) in Japan. <b>Okubo et al.</b></p> <p>32. MHC-DRB gene diversity in species survival plan and native <i>Spheniscus demersus</i> penguins. <b>Lawrance et al.</b></p> <p>33. Neutral and adaptive evolution in the speciation continuum of the rockhopper penguins (<i>Eudyptes</i>). <b>León et al.</b></p> <p>34. Unraveling the secrets of sex: Exploring the role of sexual chromosomes in banded penguin speciation. <b>León et al.</b></p>
<b>Management and conservation</b>	<p>35. Developments in the management of hoiho in a changing and unpredictable environment. <b>Webster et al.</b></p> <p>36. Empowering a conservation culture through the Global Penguin Society Education Program. <b>Villabriga et al.</b></p> <p>37. High adult mortality at mainland African penguin (<i>Spheniscus demersus</i>) colonies and how the rehabilitation and release of penguins may be helping to bolster these colonies. <b>Snyman and Ludynia</b></p> <p>38. Impacts of terrestrial and marine influences on little penguins, sentinels of coastal ecosystem health. <b>Wells et al.</b></p> <p>39. Natural and anthropogenic impacts on Humboldt penguins (<i>Spheniscus humboldti</i>) on the northern coast of Lima, Perú. <b>Cardeña et al.</b></p> <p>40. Resources, risks and refugia: assessing the spatial overlap between yellow-eyed penguin foraging distribution, prey, commercial fisheries, and marine protected areas.</p> <p>41. The activity report of Penguin Fund. <b>Ohara et al.</b></p>
<b>Microbiology and diseases</b>	<p>42. A case report of intracoelomic hemorrhage due to ovarian torsion in a captive Humboldt penguin (<i>Spheniscus humboldti</i>). <b>Shirakata and Kondo</b></p> <p>43. Adenovirus detection on <i>Aptenodytes patagonicus</i> at Reserva Natural Pingüino Rey, Bahía Inútil, Tierra del Fuego between 2019 and 2020. <b>Lopez et al.</b></p> <p>44. Avian Pox Virus Outbreak on Magellanic Penguin (<i>Spheniscus magellanicus</i>) from Magdalena Island; Magellan Region, Chile. <b>Godoy et al.</b></p> <p>45. Fungal contamination in the environment of penguin communities in the French Southern Territories. <b>Desoubeaux et al.</b></p> <p>46. Mosquitoes at penguin colonies in Argentinean Patagonia: previously underestimated or an emerging threat due to climate change? <b>Vanstreels et al.</b></p> <p>47. Nasal mites in wild Magellanic penguins (<i>Spheniscus magellanicus</i>) in Chubut, Argentina. <b>Vanstreels et al.</b></p> <p>48. Protocols to protect King penguin (<i>Aptenodytes patagonicus</i>) from an avian influenza AH5N1 outbreak. <b>Williams et al.</b></p> <p>49. Stranding and mass mortality of penguins in continental Chile related to HPAIV-H5N1. <b>Neira et al.</b></p> <p>50. Successful rehabilitation of African Penguin chicks after high pathogenicity avian influenza (H5N1) infection. <b>Roberts et al.</b></p> <p>51. Surveillance of avian influenza virus in penguins from different areas of Chile (2019 - 2023). <b>Muñoz et al.</b></p>

<b>Monitoring</b>	<p>52. Bird-borne video cameras record unseen feeding strategies of breeding Humboldt penguins. <b>Gonzalez-DelCarpio et al.</b></p> <p>53. Bycatch and mortality of Humboldt penguin (<i>Spheniscus humboldti</i>) inshore Peruvian southern waters. <b>Campos and Reyes</b></p> <p>54. Case Report: A unique king penguin (<i>Aptenodytes patagonicus</i>) colony in Tierra del Fuego, Chile. <b>Arriagada and Fernandez</b></p> <p>55. Consistency among plot-based and plotless methods for Magellanic penguin density estimations in Tierra del Fuego. <b>Balza et al.</b></p> <p>56. Exploring the success of a new penguin colony in Patagonia: Growth, occupation, and breeding patterns. <b>Tisera et al.</b></p> <p>57. Heat-related death of gentoo penguin <i>Pygoscelis papua</i> chicks at Martillo Island, Argentina. <b>Harris et al.</b></p> <p>58. Individual identification using black spots pattern on Humboldt penguins' (<i>Spheniscus humboldti</i>) chest. <b>Ogata et al.</b></p> <p>59. King penguin (<i>Aptenodytes patagonicus</i>) sightings and breeding attempts at Martillo Island, Tierra del Fuego, Argentina. <b>Scioscia et al.</b></p> <p>60. King penguin chick mortality related to predator presence in Tierra del Fuego, Chile. <b>Fassler and Arriagada</b></p> <p>61. King penguin mortality related to heat wave events in 2019 and 2020 at Bahía Inútil, Tierra del Fuego. <b>Arriagada</b></p> <p>62. Lessons from a Magellanic penguins long-term monitoring in Southern Patagonia: unified methodology, scale-dependent density and stable population trends. <b>Rodriguez-Planes et al.</b></p> <p>63. Long-term monitoring of breeding and molting colonies of Humboldt penguins (<i>Spheniscus humboldti</i>) at the Humboldt Penguin National Reserve, Coquimbo, Chile. <b>Vargas et al.</b></p> <p>64. Penguin Monitoring 2.0: How transponders and weighbridges revolutionised the way we study penguins. <b>Chiaradia et al.</b></p> <p>65. Population parameters of a King penguin colony (<i>Aptenodytes patagonicus</i>) in Bahía Inútil, Tierra del Fuego, Chile. <b>Cordero et al.</b></p> <p>66. Oceanographic and habitat traits affecting colony size in Humboldt penguins (<i>Spheniscus humboldti</i>) in Chile. <b>Vial et al.</b></p> <p>67. Methodological constraints for estimating the Humboldt Penguin population in Chile. <b>Arce et al.</b></p> <p>68. Pre-molting trips: Detrimental effect of GPS on body weight gain, returning date and blood isotopic values? <b>Morgenthaler et al.</b></p> <p>69. Progress in understanding drivers of <i>Pygoscelis</i> penguin demography and population dynamics near Palmer Station, Antarctica. <b>Cimino</b></p> <p>70. Return rate of Magellanic penguins, <i>Spheniscus magellanicus</i>, from Martillo Island, Beagle Channel, Argentina, using two different recaptures methodologies. <b>Scioscia et al.</b></p> <p>71. Successful colonization of Humboldt penguins in breakwaters: The case of the PERU/LNG port terminal. <b>Zavalaga et al.</b></p> <p>72. The Fall and rise of the little penguin on Phillip Island, Australia. <b>Wasiak et al.</b></p> <p>73. The quest for long-term monitoring, research, and conservation of the little penguin/kororā. <b>Hickcox et al.</b></p> <p>74. The winter distribution of Chinstrap penguins from Deception Island, Antarctica. <b>Morandini et al.</b></p> <p>75. Unveiling the mystery underlying two consecutive catastrophic breeding seasons in a large king penguin colony. <b>Brisson-Curadeau et al.</b></p> <p>76. Winter migration and isotopic niche of Adélie penguins from Western Antarctic Peninsula: species ecological insights to contribute to marine spatial planning and management. <b>Zaldúa et al.</b></p>
<b>Physiology and ecotoxicology</b>	<p>77. A systematic review and meta-analysis of the pollutant exposure in penguins through the southern hemisphere. <b>Rossell et al.</b></p> <p>78. Magellanic and gentoo penguin mortality linked to a toxic dinoflagellate bloom at Beagle Channel, Argentina, during austral summer 2022. <b>Albizzi et al.</b></p> <p>79. Paralytic shellfish poisoning of Magellanic penguins and other seabirds and marine mammals at Península Valdés, Argentina, in 2022. <b>Vanstreels et al.</b></p> <p>80. Per- and polyfluoroalkyl substances (PFAS) in nesting material and blood of little penguins along a gradient of urbanisation in Tasmania. <b>Wells et al.</b></p> <p>81. Variation in mitochondrial metabolism during fasting in breeding king penguins. <b>Cossin-Sevrin et al.</b></p>
<b>Pollution</b>	<p>82. Examination of microplastics in captive penguin fecal samples. <b>Walker et al.</b></p> <p>83. Examination of the presence of microplastics in wild Magellanic penguins from Punta Tombo, Argentina via fecal analysis. <b>Walker et al.</b></p> <p>84. Microplastic ingestion of African penguins in South Africa. <b>Londt et al.</b></p> <p>85. Oil spill risks for African penguins and other seabirds in Namibia and South Africa. <b>Ludynia et al.</b></p> <p>86. Plastic ingestion by Magellanic penguins (<i>Spheniscus magellanicus</i>) throughout their annual cycle. <b>Gallo et al.</b></p> <p>87. Pollution Alert: Microplastics found in kidney and liver of Magellanic Penguins (<i>Spheniscus magellanicus</i>). <b>Deecken et al.</b></p>