

Publications

In refereed scientific journals, h-index: 39; citations: 4196

- 1) Clark MS, Hoffman JI, Peck LS, Bargelloni L, Gande, D, Havermans C, Meyer B, Patarnello T, Phillips T, Stoof-Leichsenring KR, Vendrami DLJ, Beck A, Collins G, Friedrich MW, Halanych KM, **Masello JF**, Nagel R, Norén K, Printzen C, Ruiz MB, Wohlrab S, Becker B, Dumack K, Ghaderiardakani F, Glaser K, Heesch S, Held C, John U, Karsten U, Kempf S, Lucassen M, Paijmans A, Schimani K, Wallberg A, Wunder LC, & T Mock (in press) Multi-omics in the polar regions: A road map for studying and preserving polar life. **Nature Communications**
- 2) Zeuss D, Bald L, Gottwald J, Becker M, Bellafkir H, Bendix J, Bengel P, Beumer LT, Brandl R, Brändle M, Dahlke S, Farwig N, Freisleben B, Friess N, Heidrich L, Heuer S, Höchst J, Holzmann H, Lampe P, Leberecht M, Lindner K, **Masello JF**, Möglich JM, Mühlhling M, Müller T, Noskov A, Opgenoorth L, Peter C, Quillfeldt P, Rösner S, Royauté R, Schabo D, Seeger B, Schneider D, Zobel J, Steinmetz R, Tafo P, Vogelbacher M, Wöllauer S, Younis S & T Naus (in press) Nature 4.0: A networked sensor system for integrated biodiversity monitoring. **Global Change Biology**
- 3) Birchard K, Driver HG, Ademićun D, Bedolla-Guzmán Y, Birt T, Chown EE, Deane P, Harkness BAS, Morrin A, **Masello JF**, Taylor RS & VL Friesen (2023) Circadian gene variation in relation to breeding season and latitude in allochronic populations of two pelagic seabirds species complexes. **Scientific Reports** 13: 13692. Open access: <https://www.nature.com/articles/s41598-023-40702-8>
- 4) Schumm YR, **Masello JF**, Vreugdenhil-Rowlands J, Fischer D, Hillerich K, Klehm K & P Quillfeldt (2023): Diet composition of wild columbids: next-generation sequencing of plant and metazoan DNA in faecal samples. **The Science of Nature** 110: art38. Open access: <https://doi.org/10.1007/s00114-023-01863-8>
- 5) Clark BL, Carneiro APB, Pearmain EJ, Rouyer M-M, Clay TA, Cowger W, Phillips RA, Manica A, Hazin C, Eriksen M, Gonzalez-Solis J, Adams J, Albores-Barajas YV, Alfaro-Shigueto J, Alho M, Arcos JM, Arnould J, Barbraud C, Beard A, Beck J, Bell E, Bennet DG, Biscoito M, Bolton M, Jones KB, Borg J, Bourgeois K, Bretagnolle V, Briskie J, Brooke M, Bugoni L, Calabrese L, Campioni L, Carey M, Carle R, Carreiro AR, Carlile N, Catry P, Catry T, Cecere JG, Ceia FR, Cherel Y, Choi C-Y, Cianchetti M, Clarke R, Cleeland J, Colodro V, Deakin Z, Dell'Omo G, Delord K, Dehnhard N, Dennis T, Descamps S, Dilley B, Dubos J, Dunphy B, Emmerson L, Fagundes AI, Fayet A, Felis J, Fischer J, Freeman A, Gaibani G, Garcia D, Gjerdrum C, Glass T, Granadeiro JP, Grecian WJ, Gremillet D, Guilford T, Halpin LR, Hedd A, Hereward HFR, Hindell MA, Hodum P, Jaeger A, Jessopp M, Jodice P, Jones CW, Kane A, Kapelj S, Kim Y, Krüger L, Lago P, Landers T, Lavers J, Corre ML, Louzao M, Nicoll M, Nicholls D, Neves V, Madeiros J, Magalhães M, Mallory M, **Masello JF**, Massa B, Matsumoto S, McDuié F, Metzger B, Montone R, Montevecchi W, Opper S, Oro D, Owen E, Padget O, Paiva V, Pala D, Pascalis FD, Peron C, Pereira J, Petry MV, Pistorius P, Pinet P, Porter B, Proaño CB, Pollet I, Powell C, Quillfeldt P, Quinn J, Raine A, Raine H, Ramirez I, Ramos JA, Ramos R, Ratcliffe N, Ravache A, Rayner MJ, Reid T, Robertson G, Rocamora G, Rollinson DP, Ronconi RA, Rotger A, Rubolini D, Ruiz A, Russell J, Ryan P, Sagar P, Sagar R, Aguilar AS, Satge Y, Schoombie S, Schäfer W, Shaffer S, Shah N, Shailer M, Silva M, Soldatini C, Strøm H, Surman C, Takahashi A, Tatayah V, Taylor G, Thomas R, Thompson DR, Thompson P, Tranquilla L, Vidal E, Wakefield E, Waugh S, Weimerskirch H, Wilson L, Wittmer H, Yoda K, Yamamoto T, Zavalaga C, Zino F & MP Dias (2023) Global assessment of marine plastic exposure risk for oceanic birds. **Nature Communications** 14: art3665. Open access: <https://www.nature.com/articles/s41467-023-38900-z>
- 6) Strehmann F, Becker M, Lindner K, **Masello JF**, Quillfeldt P, Schumm YR, Farwig N, Schabo DG & S Rösner (2023): Half of a forest bird community infected with haemosporidian parasites. **Frontiers in Ecology and Evolution** 11:110773. Open access: <https://www.frontiersin.org/articles/10.3389/fevo.2023.1107736/full>

- 7) **Masello JF**, Rast W, Schumm Y, Metzger B & P Quillfeldt (2023): Year-round behavioural time budgets of Common Wood pigeons inferred from acceleration data using machine learning. **Behavioral Ecology and Sociobiology** 77, Article number: 40. Open access: <https://link.springer.com/article/10.1007/s00265-023-03306-w#Sec14>
- 8) **Masello JF**, Schumm Y, Griep S & P Quillfeldt (2023): Using next-generation sequencing to disentangle the diet and incidence of intestinal parasites of Falkland Flightless Steamer Duck *Tachyeres brachypterus* and Patagonian Crested Duck *Lophonetta specularioides* sharing a South Atlantic island. **Genes** 14: 731. Open access: <https://www.mdpi.com/2073-4425/14/3/731>
- 9) Ojeda V, Buglione-Rodríguez F, Buganem FJ, Chazarreta ML, **Masello JF** & M Failla (2022) European Starlings expand into Patagonia. Time for action. **Global Ecology and Conservation** 39: e02295. Open access: <https://www.sciencedirect.com/science/article/pii/S2351989422002979?via%3Dihub>
- 10) Schumm YR, **Masello JF**, Cohou V, Mourguiart P, Metzger B, Rösner S & P Quillfeldt (2022) Should I stay or should I fly? Migration phenology, individual-based migration decision and seasonal changes in foraging behavior of Common Wood pigeons. **The Science of Nature** 109: article 44. Open access: <https://link.springer.com/article/10.1007/s00114-022-01812-x#Sec17>
- 11) Theuerkauf J, Villavicencio CP, Adreani NM, Attisano A, Craig A, D'Amelio PB, Gula R, Lee ATK, Montesana L, Quillfeldt P, Quirici V, Quispe R, Vásquez RA, Wingfield JC & **JF Masello** (2022) Ecology and evolution need a more southern perspective. **Trends in Ecology and Evolution** 37: 759-767
- 12) Cole TL, Zhou C, Fang M, Pan H, Ksepka DT, Fiddaman SR, Emerling CA, Thomas D, Bi X, Fang Q, Ellegaard MR, Feng S, Smith AL, Heath T, Tennyson AJD, García Borboroglu P, Wood JR, Hadden P, Grosser S, Bost C-A, Chérel Y, Mattern T, Hart T, Sinding M-HS, Shepherd LD, Phillips RA, Quillfeldt P, **Masello JF**, Bouzat JL, Ryan P, Thompson D, Ellenberg U, Dann P, Miller G, Dee Boersma P, Zhao R, Gilbert MTP, Zhang D-X & G Zhang (2022): Genomic insight into the secondarily aquatic transition in penguins. **Nature Communications** 13: art3912 Open access: <https://www.nature.com/articles/s41467-022-31508-9>
- 13) Quillfeldt P, Chérel Y, Navarro J, Phillips RA, **Masello JF**, Suazo CG, Delord K & P Bustamante (2022) Variation among species and populations, and carry-over effects of winter exposure on mercury accumulation in small petrels. **Frontiers in Ecology and Evolution** 10: Article 915199. Open access: <https://www.frontiersin.org/articles/10.3389/fevo.2022.915199/full>
- 14) Rawlence N, Salis A, Spencer H, Waters J, Scarsbrook L, Mitchell KJ, Phillips R, Calderón L, Cook TR, Bost C, Dutoit L, King T, **Masello JF**, Nupen LJ, Quillfeldt P, Ratcliffe N, Ryan P, Till C & M Kennedy (2022) Rapid radiation of Southern Ocean shags in response to receding sea ice. **Journal of Biogeography** 49: 942–953. Open access: <https://onlinelibrary.wiley.com/doi/10.1111/jbi.14360>
- 15) Jetz W, Tertitski G, Kays R, Mueller U, Wikelski M and supporting authors Åkesson S, Anisimov Y, Antonov A, Arnold W, Bairlein F, Baltà O, Baum D, Beck M, Belonovich O, Belyaev M, Berger M, Berthold P, Bittner S, Blake S, Block B, Bloche D, Boehning-Gaese K, Bohrer G, Bojarinova J, Bommas G, Bourski O, Bragin A, Bragin A, Bristol R, Brlík V, Bulyuk V, Cagnacci F, Carlson B, Chapple T K, Chefira K F, Cheng Y, Chernetsov N, Cierlik G, Christiansen S S, Clarabuch O, Cochran W, Cornelius J M, Couzin I, Crofoot M C, Cruz S, Davydov A, Davidson S, Dech S, Dechmann D, Demidova E, Dettmann J, Dittmar S, Dorofeev D, Drenckhahn D, Dubyanskiy V, Egorov N, Ehnbohm S, Ellis-Soto D, Ewald R, Feare C, Fefelov I, Fehérvári P, Fiedler W, Flack A, Froböse M, Fufachev I, Futoran P, Gabyshev V, Gagliardo A, Garthe S, Gashkov S, Gibson L, Goymann W, Gruppe G, Guglielmo C, Hartl P, Hedenström A, Hegemann A, Heine G, Hieber Ruiz M, Hofer H, Huber F, Iannarilli F, Illa M, Isaev A, Jakobsen B, Jenni L, Jenni-Eiermann S, Jesmer B, Jiguet F, Karimova T, Kasdin N J, Kazansky F, Kirillin R, Klinner T, Knopp A, Kölzsch A, Kondratyev A, Krondorf M, Ktitorov P, Kulikova O, Kumar R S, Künzer C, Larionov A, Larose C, Liechti F., Linek N, Lohr A, Lushchekina A, Mansfield K, Matantseva M, Markovets M, Marra P, **Masello JF**,

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- 16) Robinson OJ, Socolar JB, Stuber EF, Auer T, Berryman AJ, Boersch-Supan PH, Brightsmith DJ, Burbridge AH, Butchart SHM, Davis CL, Di Giacomo AS, Farnsworth A, Fink D, Hochachka WM, Howell PE, La Sorte FA, Lees AC, Marsden S, Martin R, Martin RO, **Masello JF**, Miller ET, Moodley Y, Musgrove A, Noble D, Ojeda V, Quillfeldt P, Royle JA, Ruiz-Gutierrez V, Tella JL, Yorio P, Youngflesh C & A Johnston (2022): Extreme uncertainty and unquantifiable bias do not inform population sizes. **Proceedings of the National Academy of Sciences** 119: e2113862119. Open access: <https://www.pnas.org/doi/10.1073/pnas.2113862119>
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- 18) **Masello JF**, Ryan PG, Shepherd LD, Quillfeldt P, Chereil Y, Tennyson AJD, Alderman A, Calderón L, Cole TL, Cuthbert RJ, Dilley BJ, Massaro M, Miskelly CM, Navarro J, Phillips RA, Weimerskirch H & Y Moodley (2022): Convergent evolution of bill width in a seabird radiation. **Molecular Genetics and Genomics** 297:183–198. Open access: <https://link.springer.com/article/10.1007%2Fs00438-021-01845-3>
- 19) Baylis AMM, de Lecea AM, Tierney M, Orben RA, Ratcliffe N, Wakefield E, Catry P, Campioni L, Costa M, Dee Boersma P, Galimberti F, Granadeiro JP, **Masello JF**, Pütz K, Quillfeldt P, Rebstock GA, Galimberti S, Staniland IJ & P Brickle (2021) Overlap between marine predators and proposed Marine Managed Areas on the Patagonian Shelf. **Ecological Applications** 31: e02426
- 20) **Masello JF**, Barbosa A, Kato A, Mattern T, Medeiros R, Stockdale JE, Kümmel MN, Bustamante P, Belliure J, Benzal J, Colominas-Ciuró R, Menéndez-Blázquez J, Griep S, Goesmann A, Symondson WOC & P Quillfeldt (2021) How animals distribute themselves in space: energy landscapes of Antarctic avian predators. **Movement Ecology** 9: article 24. Open access: <https://movementecologyjournal.biomedcentral.com/articles/10.1186/s40462-021-00255-9>
- 21) Bedolla Y, **Masello JF**, Aguirre-Muñoz A, Lavaniegos BE, Voigt CC, Gómez-Gutiérrez J, Sánchez-Velasco L, Robinson CJ & P Quillfeldt (2021): Year-round variability in the foraging ecology of three sympatric *Hydrobates* storm-petrels from the Northwest Mexico, Eastern Pacific. **Marine Ecology Progress Series** 664: 207–225.
- 22) Schumm YR, Bakaloudis D, Barboutis C, Cecere JG, Eraud C, Fischer D, Hering J, Hillerich K, Lormée H, Mader V, **Masello JF**, Metzger B, Rocha G, Spina F & P Quillfeldt (2021) Prevalence and genetic diversity of avian haemosporidian parasites in wild bird species of the order Columbiformes. **Parasitology Research** 120: 1405-1420. Open access: <https://link.springer.com/article/10.1007/s00436-021-07053-7>

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- 24) Pan H, Cole TL, Bi X, Fang M, Zhou C, Yang Z, Hart T, Bouzat JL, Argilla LS, Bertelsen MF, Dee Boersma P, Bost C, Cherel Y, Dann P, Fiddaman SR, Howard P, Labuschagne K, Mattern T, Miller G, Parker P, Phillips RA, Quillfeldt P, Ryan PG, Taylor H, Thompson DR, Young MJ, Ellegaard MR, Gilbert MTP, Sinding M, Pacheco G, Shepherd LD, Tennyson AJD, Grosser S, Kay E, Nupen LJ, Ellenberg U, Houston DM, Hart-Reeve A, Johnson K, **Masello JF**, Stracke T, McKinlay B, Zhang DX & G Zhang (2019) High-coverage genomes to elucidate the evolution of penguins. **Gigascience** 8: giz117. Open access: <https://academic.oup.com/gigascience/article/8/9/giz117/5571031?searchresult=1#163583938>
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