

Curriculum vitae: Laura D. Bertola, PhD

Education and professional experience

University:	Leiden University, The Netherlands (2002-2008)
Subject:	Biology, research master Animal Biology
Diploma:	Propedeuse (cum laude), 2003 Bachelor, 2005 Master, 2008
2024 – present	Research Associate & Senior Project Manager: vulnerability of small populations (National Centre for Biological Sciences, Bangalore)
2024 – present	Guest Researcher Leiden University
2021 – 2023	Postdoctoral Researcher: various population genomics projects with a focus on African mammals (University of Copenhagen)
2020	Visiting researcher at Concepción University, Chile
2017 – 2019	Postdoctoral Researcher: comparative adaptive genomics (Department Earth and Atmospheric Sciences & Department Biology, City University of New York)
2016	Postdoctoral Researcher: Phylogenomics of African fresh water fish species (Human Origins Group, Faculty of Archeology, Leiden University)
2014 – 2015	Lab manager & Postdoctoral Researcher: Developing a research line on Metagenomics and environmental DNA (eDNA) (Institute of Environmental Sciences, Leiden University)
2010 – 2014	PhD Research: GENETIC DIVERSITY IN THE LION (<i>Panthera leo</i> (Linnaeus 1758)): Unravelling the Past and Prospects for the Future (Institute of Environmental Sciences and Institute of Biology, Leiden University)
2009	Education Assistant Biology, Leiden University

Professional memberships

2024 – present	Chair Leo Foundation (carnivore conservation/science)
2023 – present	Genetic Nature Observation and Action (GENOA) Cost action
2023 – present	Associate Editor Diversity and Distributions (Wiley)
2023 – present	Board member Society of Conservation Biology – Genetics Working Group
2022 – present	IUCN Cat Specialist Group
2020 – present	Alliance Panthera leo leo
2018 – present	Steering Committee GEO BON Genetic Composition Working Group
2017 – present	Board member Himalayan Tiger Foundation (Nepal nature conservation/science)
2016 – present	IUCN Conservation Genetics Specialist Group
2010 – present	Special Matters Committee African Lion Working Group (ALWG)
2016 – 2024	Treasurer Leo Foundation (carnivore conservation/science)
2011 – 2014	Member of the co-management council Institute of Environmental Sciences

Working groups:

- NSF Research Coordination Network (RCN) Biodiversity - Cross-Scale Processes Impacting Biodiversity (2019 – present)
- KISS - Unlocking a New Era in Biodiversity Science: Linking Integrated Space Based and In-Situ Observations (2018 + 2019)

Scholarships and Awards

- 2024: IUCN 224 SSC Internal Grant
- 2024: WWF INNO grant
- 2023: IUCN 2023 SSC Internal Grant
- 2020: COST action Short Term Scientific Mission (STSM) (not executed due to pandemic)
- 2019: City University of New York Post Doc Travel Award
- 2016: Certificate of Excellence for Marie Curie proposal (not funded)
- 2015: Best scientific publication award Institute of Environmental Sciences, Leiden University
- 2013: Nominated as Researcher of the Year for the Faculty of Science, Leiden University
- 2012: LUF travel fund for participation IUCN World Conservation Congress (Jeju, South Korea)
- 2011: Best scientific publication award Institute of Environmental Sciences, Leiden University
- 2010: NWO Open Program funding for PhD research

Collaboration on several funded applications for research, monitoring and outreach through Leo Foundation and other joint projects.

Several invitations for participation in conferences or symposia (see list below).

Teaching & Mentoring

Co-supervision PhD candidates (8 candidates).

Supervision of internship projects for students (5 BSc. students and 7 MSc. students)

Design and teaching RADCamp (RAD sequencing and downstream data processing) (2018 – present)

Course bioinformatics: theory + hands-on training (2025) (NCBS)

Conservation Genomics Workshop (ConGen) (2024) (University of Montana/SANBI, South Africa)

TA Undergrad course 'Evolutionary Biology' (2021 +2022) (University of Copenhagen)

TA Popgen summer course (2021) (University of Copenhagen)

Guest lectures during undergrad courses at CUNY (2017-2019)

TA 2nd year biology course: Molecular Biological Techniques (2010-2014)

TA 2nd year biology course: Environmental Sciences (2010-2014)

Lecturing BSc. and MSc. students in the following courses: Trends in Conservation Biology, Environmental Processes & Biodiversity, Trends in Behaviour & Ecology, Genomic architecture.

Workshop on writing research proposals for MSc. Students.

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Other professional activities

Conference and Workshop organization

Conservation Genomics + RADCamp (RAD sequencing and downstream data processing) at the International Congress for Conservation Biology (ICCB25), (Brisbane – Australia)

Bioinformatics Workshop at Genome Informatics Across Scales Conference (Bangalore – India)

Conservation Genomics + RADCamp (RAD sequencing and downstream data processing) at the International Congress for Conservation Biology (ICCB23), for ~25 participants from African institutions (Kigali – Rwanda)

Organization of Evolution and Population genetics in Denmark (EPIC) monthly symposia (2022-2023)

Chairing round table discussion on the use of SNP panels for carnivore conservation at ConsGen 2022 (Edinburgh – UK).

Organization of Evolution and Population genetics in Denmark (EPIC) yearly conference (2021+2022)

RADCamp (RAD sequencing and downstream data processing) 2020 (online only)

RADCamp (RAD sequencing and downstream data processing) 2019 (New York – USA)

RADCamp (RAD sequencing and downstream data processing) 2018 (São Paulo – Brazil)

Organizing the 2019 Meeting of the African Lion Working Group (ALWG) (Mpala – Kenya).

PhD committees

Opposition/examiner during PhD defenses (4 candidates).

Review activities

I review manuscripts for various journals, including Molecular Ecology, Heredity, Proceedings of the Royal Society B, Journal of Biogeography, Evolutionary Applications, PlosOne, Scientific Reports, Conservation Science and Policy, Journal of Zoology, Global Ecology and Biogeography, Biological Invasions, Journal of East African Natural History, Global Ecology and Conservation, African Journal of Wildlife Research, and Mitochondrial DNA.

I have also formally reviewed several PhD and MSc theses as an external reviewer.

Further, I'm an Associate Editor for Diversity & Distributions.

Outreach and Media

Several interviews for papers and radio, as well as podcasts (e.g. IPBES - Nature Insight).

I have written four popular articles related to my work for The Conversation (>20k reads) and a chapter in the coffee table book 'Last Lions', focusing on the use of genetics in the context of lion conservation. I've also co-written a chapter on genetic tools for the purpose of lion monitoring (EWT – South Africa) aimed at managers. I published a (peer-reviewed) paper in Cat News, aimed at policy makers, providing guidelines on how to use genetic data for informing translocations, with a summary available in English, French and Portuguese. I gave a lecture on lion genetics for 7-12 year old children at the "Museumjeugduniversiteit" at the Natuurhistorisch Museum Rotterdam. Active use of various social media platforms for outreach (see social media handles below).

Publications and Meetings

Published (peer-reviewed, not including under review and preprints)

- Da Silva J.M., **Bertola L.D.**, DeWoody J.A., Steeves T., Sunnucks P., Vilça S.T., Hoban S. (2025) Conserving genetic diversity in accordance with the Global Biodiversity Framework. *Annual Reviews in Animal Biosciences* (accepted).
- Mishra R., **Bertola L.D.**, Leirs H., Adhikari S., Lamichhane B.R., Subedi N., Neupane U., Kolipaka S., Manandhar P., Pradhan S., Pageni A., De longh H.H. (2025) More than fish: diet composition of fishing cats (*Prionailurus viverrinus*) in human-dominated landscape. *Wildlife Biology*.
- Shaw R.E., Farquharson K.A., Bruford M.W., Coates D.J., Elliott C.P., Mergeay J., Ottewell K.M., Segelbacher G., Hoban S., Hvilsom C., Pérez-Espona S., Ruňgis D., Aravanopoulos F., **Bertola L.D.**, Cotrim H., Cox K., Cubric-Curik V., Ekblom R., Godoy J.A., Konopiński M.K., Laikre L., Russo I.M., Veličković N., Vergeer P., Vilà C., Brajkovic V., Field D.L., Goodall-Copestake W.P., Hailer F., Hopley T., Zachos F.E., Alves P.C., Biedrzycka A., Binks R.M., Buiteveld J., Buzan E., Byrne M., Huntley B., Iacolina L., Keehnen N.L.P., Klinga P., Kopatz A., Kurland S., Leonard J.A., Manfrin C., Marchesini A., Millar M.A., Orozco-terWengel P., Ottenburghs J., Posledovich D., Spencer P.B., Tourvas N., Nahberger T.U., Van Hooft P., Verbylaite R., Vernesi C., Grueber C.E. (2025) Global meta-analysis shows action is needed to halt genetic diversity loss. *Nature*, **638**, 704–710.
- Chege M., Torrents-Ticó M., **Bertola L.D.**, De Snoo G.R., Van't Zelfde M., Musters C.J.M., De longh H.H. (2025) Rainfall variability shapes lion movement and home range dynamics in three Kenyan parks. *African Journal of Ecology*, **63**(1), <https://doi.org/10.1111/aje.70003>.
- Gueye M., Pellaton R., Diouf A., Mané S., Turek D., Leirs H., **Bertola L.D.**, De longh H.H. (2025) Spatial Distribution Modelling of a Threatened Lion Population in Relation to Prey Populations in Niokolo-Koba National Park, Senegal. *African Journal of Ecology*, **63**(1), <https://doi.org/10.1111/aje.70007>.
- Garcia-Erill G., Wang X., Rasmussen M.S., Quinn L., Khan A., **Bertola L.D.**, Santander C.G., Balboa R.F., Ogutu J.O., Pečnerová P., Hanghøj K., Kuja J., Nursyifa C., Masembe C., Muwanika V., Bibi F., Moltke I., Siegismund H.R., Albrechtsen A., Heller R. (2024) Extensive Population Structure Highlights an Apparent Paradox of Stasis in the Impala (*Aepyceros melampus*). *Molecular Ecology*, doi: 10.1111/mec.17539.
- Wang X., Pedersen C.E.T., Athanasiadis G., Garcia-Erill G., Hanghøj K., **Bertola L.D.**, Rasmussen M.S., Schubert M., Liu X., Li Z., Lin L., Balboa R.F., Jørsboe E., Nursyifa C., Liu S., Muwanika V., Masembe C., Chen L., Wang W., Moltke I., Siegismund H.R., Albrechtsen A., Heller R. (2024) Persistent gene flow suggests an absence of reproductive isolation in an African antelope speciation model. *Systematic Biology*, doi: 10.1093/sysbio/syae037.
- White P.A., **Bertola L.D.**, Kariuki K., De longh H.H. (2024) Human procurement of meat from lion (*Panthera leo*) kills: Costs of disturbance and implications for carnivore conservation. *PlosONE*, doi: 10.1371/journal.pone.0308068.
- Stein A.B., Gerngross P., Al Hikmani H., Balme G., **Bertola L.D.**, Drouilly M., Farhadinia M.S., Feng L., Ghoddousi A., Henschel P., Jhala Y., Khorozyan I., Kittle A., Laguardia A., Luo S.-J., Mann G., Miquelle D., Moheb Z., Raza H., Rostro-García S., Shivakumar S., Song D. & Wibisono, H. (2024) *Panthera pardus*. *The IUCN Red List of Threatened Species*. e.T15954A254576956.
- Liu X., Lin L., Sinding M.H.S., **Bertola L.D.**, Hanghøj K., Quinn L., Garcia-Erill G., Rasmussen M.S., Schubert M., Pečnerová P., Balboa R.F., Li Z., Heaton M.P., Smith T.P.L., Pinto R.R., Wang X., Kuja J., Brüniche-Olsen A., Meisner J., Santander C.G., Ogutu J.O., Masembe C., Da Fonseca R.R., Muwanika V., Siegismund H.R., Albrechtsen A., Moltke I., Heller R. (2024) Introgression and disruption of migration routes have shaped the genetic integrity of wildebeest populations. *Nature Communications*, **15**(1): 2921.
- Mitchell C., Bolam J., **Bertola L.D.**, Naude V.N., Gonçalves da Silva L., Razgour O. (2024) Leopard subspecies conservation under climate and land-use change. *Ecology & Evolution*, **14**(5): e11391.

- Chege M., Sewalt B., Lesilau F., De Snoo G.R., Patterson B.D., Kariuki L., Otiende M., Omondi P., De longh H.H., Vrieling K., **Bertola L.D.** (2024) Genetic diversity of lion populations in Kenya: Evaluating past management practices and recommendations for future conservation actions. *Evolutionary Applications*, **17**(3): e13676.
- **Bertola L.D.***, Quinn L.*, Hanghøj K.*, Garcia-Erill G., Rasmussen M.S., Balboa R.F., Meisner J., Bøggild T., Wang X., Lin L., Nursyifa C., Liu X., Li Z., Chege M., Moodley Y., Brüniche-Olsen A., Kuja J., Schubert M., Agaba M., Santander C.G., Sinding M.S., Muwanika V., Masembe C., Siegismund H.R., Moltke I., Albrechtsen A., Heller R. (2024) Giraffe lineages are shaped by major ancient admixture events. *Current Biology*, **34**(7):1576-1586. e5. (*co-leads)
- Chege M., **Bertola L.D.**, De Snoo G.R., Ngene S., Otieno T., Amoke I., Van 't Zelfde M., Dolrenry S., Broekhuis F., Tamis W., De longh H.H., Elliot N.B. (2024) Effect of ecological and anthropogenic factors on grouping patterns in African lions across Kenya. *Ecology and Evolution*.
- Pearman P.B., Broennimann O., Aavik T., Albayrak T., Alves P.C., Aravanopoulos F.A., **Bertola L.D.**, Biedrzycka A., Buzan E., Cubric-Curik V., Djan M., Fedorca A., Fuentes-Pardo A.P., Fussi B., Godoy J.A., Gugerli F., Hoban S., Holderegger R., Hvilsom C., Iacolina L., Kalamujic Strojil B., Klinga P., Konopiński M.K., Kopatz A., Laikre L., Lopes-Fernandes M., McMahon B.J., Mergeay J., Neophytou C., Pálsson S., Paz-Vinas I., Posledovich D., Primmer C.R., Raeymaekers J.A.M., Rinkevich B., Rolečková B., Ruņģis D., Schuerz L., Segelbacher G., Sonnenschein K.K., Stefanovic M., Thurfjell H., Träger S., Tsvetkov I.N., Velickovic N., Vergeer P., Vernesi C., Vilà C., Westergren M., Zachos F.E., Guisan A., Bruford M. (2024) Monitoring of species' genetic diversity in Europe varies greatly and overlooks potential climate change impacts, *Nature Ecology & Evolution*, <https://doi.org/10.1038/s41559-023-02260-0>.
- Balboa R.F.*, **Bertola L.D.***, Brüniche-Olsen A.*, Rasmussen M.S., Liu X., Besnard G., Salmona J., Santander C.G., He S., Zinner D., Pedrono M., Muwanika V., Masembe C., Schubert M., Kuja J., Quinn L., Garcia-Erill G., Rakotoarivony R., Henrique M., Lin L., Wang X., Heaton M.P., Smith T.P.L., Hanghøj K., Sinding M.S., Atickem A., Chikhi L., Roos C., Gaubert P., Siegismund H.R., Moltke I., Albrechtsen A., Heller R. (2024) African bushpigs exhibit porous species boundaries and appeared in Madagascar concurrently with human arrival, *Nature Communications*, **15**(1):172. (*co-leads)
- **Bertola L.D.**, Brüniche-Olsen A., Kershaw F., Russo I.M., MacDonald A.J., Sunnucks P., Bruford M.W., Cadena C.D., Ewart K.M., De Bruyn M., Eldridge M.D.B., Frankham R., Guayasamin J.M., Grueber C.E., Hoareau T.B., Hoban S., Hohenlohe P.A., Hunter M.E., Kotze A., Kuja J., Lacy R.C., Laikre L., Lo N., Meek M.H., Mergeay J., Mittan-Moreau C., Neaves L.E., O'Brien D., Ochieng J.W., Ogden R., Orozco-terWengel P., Páez-Vacas M., Pierson J., Ralls K., Shaw R.E., Sogbohossou E.A., Stow A., Steeves T., Vernesi C., Watsa M., Segelbacher G. (2024) A pragmatic approach for integrating molecular tools into biodiversity conservation, *Conservation Science and Practice*, e13053.
- French C.M., **Bertola L.D.**, Carnaval A.C., Economo E.P., Kass J.M., Lohman D.J., Marske K.A., Meier R., Overcast I., Rominger A.J., Staniczenko P., Hickerson M.J. (2023) Global determinants of insect mitochondrial genetic diversity, *Nature Communications*, **14**(1):5276.
- Groen K., Beekenkamp S., De longh H.H., Lesilau F., Chege M., Narisha L., Veldhuis M., **Bertola L.D.**, Van Bodegom P.M., Trimbois K.B. (2023) DNA metabarcoding illuminates the contribution of small and very small prey taxa to the diet of lions, *Environmental DNA*, 00:1-11.
- Manandhar P., Manandhar S., Sherchan A.M., Joshi J., Chaudhary H.K., Dhakal B., Napit R., Shrestha B., Rajbhandari P.G., Shrestha S., Pradhan S.M., Chaudhary A., Puri D., Khadka S., Pradhan N., Poudel A., Moravek J.A., Risal D., Basnyat N., Cardinale P., Philipp D., Claussen J.E., Gillette D., Shakya S.M., Prajapati G., **Bertola L.D.**, Karmacharya D. (2023) Environmental DNA (eDNA) based fish biodiversity assessment of two Himalayan rivers of Nepal reveals diversity differences and highlights new species distribution records, *PLOS Water*, **2**:e0000099.
- Tumenta P.N., Croes B.M., **Bertola L.D.**, Adam S., Kagalang D., Kamgang S., Loth P., De longh H. (2023) Strategies to restore Waza National Park, Cameroon, an important lion stronghold, *Cat News*, **77**, 23-28.

- Quinn L., Garcia-Erill G., Santander C., Brüniche-Olsen A., Liu X., Sinding M.S., Heaton M.P., Smith T.P.L., Pečnerová P., **Bertola L.D.**, Hanghøj K., Rasmussen M.S., De Jager D., Siegismund H.R., Albrechtsen A., Heller R., Moltke I. (2023) Colonialism in South Africa leaves a lasting legacy of reduced genetic diversity in Cape buffalo, *Molecular Ecology*, 1-15.
- Tumenta P.N., Croes B.M., **Bertola L.D.**, Adam S., Kagalang D., Kamgang S., Loth P., Chardonnet P., De longh H. (2023) Assessment of antelope populations, the prey base of lions, and human encroachment in Waza National Park, Cameroon, April-July 2021, *GnusLetter*, **39**(2), 13-21.
- Garcia-Erill G., Jørgensen C.H.F., Muwanika V.B., Wang X., Rasmussen M.S., De Jong Y.A., Gaubert P., Olayemi A., Salmona J., Butynski T.M., **Bertola L.D.**, Siegismund H.R., Albrechtsen A., Heller R. (2022) Warthog genomes resolve an evolutionary conundrum and reveal introgression of disease resistance genes, *Molecular biology and evolution*, **39**(7).
- Tensen L., Jansen Van Vuuren B., Groom R., **Bertola L.D.**, De longh H., Rasmussen G., Du Plessis C., Davies-Mostert H., Van Der Merwe D., Fabiano E., Lages F., Rocha F., Monterroso P., Godinho R. (2022) Spatial genetic patterns in African wild dogs reveal signs of effective dispersal across southern Africa, *Frontiers in Ecology and Evolution*, **10**, 1216.
- **Bertola L.D.**, Sogbohossou E.A., Palma L., Miller S.M. (2022) Policy implications from genetic guidelines for the translocations of lions, *Cat News*, **75**, 41-43.
- Becker M.S., Almeida J., Begg C., **Bertola L.D.**, Breitenmoser C., Breitenmoser U., Coals P., Funston P., Gaylard A., Groom R., Henschel P.H., Ikanda D., Agostinho J., Kruger J., Lindsey P., Maimbo H., Mandisodza-Chikerema R., Maude G., Mbizah M.M., Miller S., Mudongo E., Mwape H., Mweetwa T., Naude V., Nyirenda V., Parker A., Parker D.M., Reid C., Robson A., Sayer E., Selier S.J., Sichande M., Simukonda C., Uiseb K., Williams V.,imba D., Hunter L. (2022) Guidelines for evaluating the conservation value of African lion (*Panthera leo*) translocations, *Frontiers in Conservation Science*, **80**.
- Jensen E.L., Díez-del-Molino D., Gilbert T.P.M., **Bertola L.D.**, Borges F., Cubric-Curik V., De Navascués M., Frandsen P., Heuertz M., Hvilsom C. (2022) Ancient and historical DNA in conservation policy, *Trends in Ecology & Evolution*. **37**(5), 420-429.
- Garcia-Erill G., Jørgensen C.H.F. Muwanika V.B., Wang X., Rasmussen M.S., De Jong Y.A., Gaubert P., Olayemi A., Salmona J., Butynski T.M., **Bertola L.D.**, Siegismund H.R., Albrechtsen A., Heller R. (2022) Warthog genomes resolve an evolutionary conundrum and reveal introgression of disease resistance genes, *Molecular Biology and Evolution*, **39**(7).
- **Bertola L.D.**, Vermaat M., Lesilau F., Chege M., Tumenta P.N., Sogbohossou E.A., Schaap O.D., Bauer H., Patterson B.D., White P.A., de longh H.H., Laros J.F.J. & Vrieling K. (2022) Whole genome sequencing and the application of a SNP panel reveal primary evolutionary lineages and genomic variation in the lion (*Panthera leo*). *BMC Genomics*. **23**(321).
- Hoban S., Archer F.I., **Bertola L.D.**, Bragg J.G., Breed M.F., Bruford M.W., Coleman M.A., Ekblom R., Funk W.C., Grueber C.E., Hand B.K., Jaffé R., Jensen E., Johnson J.S., Kershaw F., Liggins L., MacDonald A.J., Mergeay J., Miller J.M., Muller-Karger F., O'Brien D., Paz-Vinas I., Potter K.M., Razgour O., Vernesi C., Hunter M.E. (2022) Global genetic diversity status and trends: towards a suite of Essential Biodiversity Variables (EBVs) for genetic composition. *Biological Reviews*. <https://doi.org/10.1111/brev.12852>
- Gueye M., Van Cauteren D., Mengual L., Pellaton R., Leirs H., **Bertola L.D.**, De longh H.H. (2022) Conflicts between large carnivores and local pastoralists around Niokolo Koba National Park, Senegal. *European Journal of Wildlife Research*. **68**(9).
- **Bertola L.D.**, Miller S.M., Williams V.L., Naude V.N., Coals P., Dures S.G., Henschel P., Chege M., Sogbohossou E.A., Ndiaye A., Kiki M., Gaylard A., Ikanda D.K., Becker M.S., Lindsey P. (2021) Genetic guidelines for translocations: Maintaining intraspecific diversity in the lion (*Panthera leo*). *Evolutionary Applications*. **15**(1), 22-39.
- Minter M., Nielsen E.S., Blyth C., **Bertola L.D.**, Kantar M.B., Morales H.E., Orland C., Segelbacher G., Leigh D.M. (2021) What Is Genetic Diversity and Why Does it Matter? *Frontiers for Young Minds*.

- Leigh D.M., Van Rees C.B., Millette K.L., Breed M.F., Schmidt C., **Bertola L.D.**, Hand B.K., Hunter M.E., Jensen E.L., Kershaw F., Liggins L., Luikart G., Manel S., Mergeay J., Miller J.M., Segelbacher G., Hoban S., Paz-Vinas I. (2021) Opportunities and challenges of macrogenetic studies. *Nature Reviews Genetics*. **22**(12): 791-807.
- Martins L.F., Azevedo J.A., **Bertola L.**, Carnaval A.C., Colli G.R., Werneck F.P. (2021) Local environments partially explain genomic variation in whiptail lizards restricted to Amazonian open areas. Instituto Nacional de Pesquisas da Amazônia, PhD thesis.
- Laikre L., Hohenlohe P.A., Allendorf F.W., **Bertola L.D.**, Breed M.F., Bruford M.W., Funk W.C., Gajardo G., González-Rodríguez A., Grueber C.E., Hedrick P.W., Heuertz M., Hunter M.E., Johannesson K., Liggins L., MacDonald A.J., Mergeay J., Moharrek F., O'Brien D., Ogden R., Orozco-terWengel P., Palma-Silva C., Pierson J., Paz-Vinas I., Russo I.M., Ryman N., Segelbacher G., Sjögren-Gulve P., Waits L.P., Vernesi C., Hoban S. (2021) Authors' Reply to Letter to the Editor: Continued improvement to genetic diversity indicator for CBD. *Conservation Genetics*. **22**: 533–536.
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- Curry C.J., Davis B.W., **Bertola L.D.**, White P.A., Murphy W.J., Derr J.N. (2021) Spatiotemporal Genetic Diversity of Lions Reveals the Influence of Habitat Fragmentation Across Africa. *Molecular Biology and Evolution*. **38**(1): 48–57.
- Trimpos K.B., Cieraad E., Schrama M.J.J., Saarloos A., **Bertola L.D.**, Musters C.J.M. (2020) Stirring up the relationship between quantified environmental DNA concentrations and exoskeleton-shedding invertebrate densities. *Environmental DNA*. **3**(3): 605-618.
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- **Bertola L.D.**, Jongbloed H., Van der Gaag K.J., De Knijff P., Yamaguchi N., Hooghiemstra H., Bauer H., Henschel P., White P.A., Driscoll C.A., Tende T., Ottosson U., Saidu Y., Vrieling K. & De longh H.H. (2016) Phylogeographic patterns in Africa and high resolution delineation of genetic clades in the lion. *Scientific Reports*, **6**(30807): DOI: 10.1038/srep30807.
- Jones M., **Bertola L.D.**, Razagour, O. (2016) Predicting the effect of interspecific competition on habitat suitability for the endangered African wild dog under future climate and land cover changes. *Hystrix*, **27**(1): DOI: 10.4404/hystrix-27.1-11678

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- **Bertola L.D.** (2015) GENETIC DIVERSITY IN THE LION (*Panthera leo* (Linnaeus 1758)): Unravelling the Past and Prospects for the Future. Leiden University, PhD thesis.
- Cho Y.S., Hu L., Hou H., Lee H., Xu J., Kwon S., Oh S., Kim H., Jho S., Kim S., Shin Y., Kim B.C., Kim H., Kim C., Turner J.A., Luo S., Johnson W.E., Koepfl i K., Schmidt-Küntzel A., Marker L., Harper C., Miller S.M., Jacobs W., **Bertola L.D.**, Kim T.H., Lee S., Zhou Q., Jung H., Xu X., Gadhvi P., Xu P., Xiong Y., Luo Y., Pan S., Gou C., Chu X., Zhang J., Liu S., He J., Chen Y., Yang L., Yang Y., HeJ., Liu S., Wang J., Kim C.H., Kwak H., & Kim J. (2013) The tiger genome and comparative analysis with lion and snow leopard genomes. *Nature communications*, **4**, (2433): DOI:10.1038/ncomms3433.
- **Bertola L.D.**, van Hooft W.F., Vrieling K., Uit de Weerd D.R., York D.S., Bauer H., Prins H.H.T., Funston P.J., Udo de Haes H.A., Leirs H., van Haeringen W.A., Sogbohossou E., Tumenta P.N., & Delongh H.H. (2011) Genetic diversity, evolutionary history and implications for conservation of the lion (*Panthera leo*) in West and Central Africa. *Journal of Biogeography*, **38**(7): 1356–1367
- **Bertola L.D.**, Schoonheere E., Wilms I., Kabli S., Alia A., De Groot H.J.M. & Bagowski C.P. (2011) Effectsof hypoxia on buoyancy control and the development of lordosis in physostomous andphysoclistous fish species. *Research & Reviews in Biosciences*, **5**(1).
- **Bertola L.D.**, Griepsma S., Vonk F.J. & Bagowski C.P. (2008) Developmental expression of the alpha skeletal actin gene. *BMC Evolutionary Biology*, **8**(1): 166-166.

Published (non peer-reviewed, not including preprints)

- O'Brien D., Hunter M., Breed M., **Bertola L.D.**, Ogden R., Palma-Silva C., Paz-Vinas I., Segelbacher G., Hoban S., Jaffé R. (2020) Proposed species extinction target fails to capture the diversity in biodiversity. Science eLetter, response to Rousevell *et al.* (2020).
- **Bertola L.D.**, De longh H.H. & Vrieling K. (2018) An assessment of the genetic background of EAZA zoo lions (*Panthera leo*). Report for Givskud Zoo.
- **Bertola L.D.**, Vrieling K. & De longh H.H. (2012) Conservation Genetics of the Lion: New Approaches to Species Conservation. In: Genetic Diversity: New Research. Cervantes Amaya J.A., Franco Jimenez M.M. (Eds.). Hauppauge NY: Nova Science Publishers, Inc. 61-82.
- **Bertola L.D.**, Vrieling K. & De longh H.H. (2011) Conservation Genetics of the African Lion. *Waza News*, **3**, 2–4.

Abstracts for workshops & conferences

- **Bertola L.D.** (2025): Harnessing genomic resources for wildlife conservation (Bangalore – India)
- **Bertola L.D.**, Quinn L., Kuja J., Moltke I., Siegismund H.R., Albrechtsen A., Heller R. (2023): Genomic resources for African wildlife provide new insights into evolutionary history and implications for conservation: the case of giraffes. International Congress for Conservation Biology (Kigali – Rwanda)
- **Bertola L.D.** (2022): Harnessing genomic resources for lion conservation. ConsGen 22 (Edinburgh – UK) (invited keynote)
- **Bertola L.D.**, Miller S.M., Williams V.L., Naude V.N., Lindsey P., Heller R., De longh H.H., Vrieling K. (2021): Harnessing genomic resources for lion conservation. International Congress for Conservation Biology (virtual)
- **Bertola L.D.**, Vasconcellos M., Damasceno R., Prates I., Reginato M., Steiner N., Khan A., Quinteros N., Nuss A., Raposo do Amaral F., Beatriz A., Miyaki C.Y., Lucas Silva-Brandão K., Magaldi L., Victor Lucci Freitas A., Trefaut Rodrigues M., Michelangeli F.A., McDonald K., Carnaval A., Hickerson M.

- (2020): Comparative phylogeography and adaptive genomics in the Atlantic Forest of Brazil, using genome-wide SNPs and spatially explicit climatic data. Ecological Society of America Meeting (Salt Lake City – USA (virtual)) (invited)
- **Bertola L.D.**, Vasconcellos M., Damasceno R., Prates I., Reginato M., Steiner N., Khan A., Quinteros N., Nuss A., Raposo do Amaral F., Beatriz A., Miyaki C.Y., Lucas Silva-Brandão K., Magaldi L., Victor Lucci Freitas A., Trefaut Rodrigues M., Michelangeli F.A., McDonald K., Carnaval A., Hickerson M. (2020): Using climate data to gain insight into community-level adaptive genomics in the Atlantic Forest, Brazil. GEO BON Open Science Conference & All Hands Meeting 2020 (Leipzig – Germany (virtual))
 - **Bertola L.D.**, Vrieling K. & De longh H.H. (2020): Distribution of genetic diversity in the lion and implications for conservation. 4th Annual Meeting in Conservation Genetics 2020 (Frankfurt – Germany)
 - **Bertola L.D.** (2019): Phylogenetic relationships in the lion and application of genetics for conservation management. African Lion Working Group meeting (Mpala – Kenya)
 - **Bertola L.D.** (2019): Insights into the distribution of genetic diversity in the lion and implications for conservation. Carnivore Researchers Meeting (Nairobi – Kenya)
 - Bertola L.D., Vasconcellos M., Damasceno R., Prates I., Reginato M., Steiner N., Khan A., Quinteros N., Nuss A., Raposo do Amaral F., Beatriz A., Miyaki C.Y., Lucas Silva-Brandão K., Magaldi L., Victor Lucci Freitas A., Trefaut Rodrigues M., Michelangeli F.A., McDonald K., Carnaval A., Hickerson M. (2019): Comparative phylogeography and adaptive genomics in the Atlantic Forest of Brazil, using genome-wide SNPs and spatially explicit climatic data. International Biogeography Society –9th Biennial Conference (Quito – Ecuador)
 - **Bertola L.D.**, Vasconcellos M., Steiner N., Khan A., Damasceno R., Prates I., Reginato M., Quinteros N., McDonald K., Carnaval A., Hickerson M. (2018): Comparative Phylogeography and Adaptive Genomics in the Atlantic Forest, Brazil using genome-wide SNP and spatially explicit climatic data. Evolution (Montpellier – France).
 - **Bertola L.D.**, Vasconcellos M., Steiner N., Khan A., Damasceno R., Prates I., Reginato M., Quinteros N., McDonald K., Carnaval A., Hickerson M. (2018): Comparative Adaptive Genomics in the Atlantic Forest, Brazil. International Biogeography Society (Evora – Portugal).
 - **Bertola L.D.**, McDonald K., Vasconcellos M., Steiner N., Khan A., Damasceno R., Prates I., Reginato M., Quinteros N., Carnaval A., Hickerson M. (2017): Comparative Adaptive Genomics in the Brazilian Atlantic Forest: Environmental and Genomic Clines across Multiple Species. Evolution (Portland – USA).
 - **Bertola L.D.** (2016) Genetic Diversity of the Lion: Unraveling the Past, Prospects for the Future. IUCN World Conservation Congress (Honolulu – Hawai'i).
 - **Bertola L.D.** (2015) Ecology in an Urbanized Society - Placing Nature in an Urbanized World: from Conservation to Design. Routes: The City that Adapts (Ferrara – Italy). (invited)
 - **Bertola L.D.**, Vrieling K. & De longh H.H. (2015) Lion genotyping for captive population management. Annual Conference of the European Association of Zoos and Aquaria (EAZA) (Wrocław – Poland). (invited)
 - **Bertola L.D.**, Vrieling K. & De longh H.H. (2015) Insights into the distribution of genetic diversity in the lion and implications for conservation. 1st Annual Meeting in Conservation Genetics – Science and Practice (Birmensdorf – Switzerland).
 - **Bertola L.D.**, Vrieling K. & De longh H.H. (2015) Phylogeographic patterns in Africa and high resolution delineation of genetic clades in the African lion. International Biogeography Society –7th Biennial Conference (Bayreuth – Germany).
 - **Bertola L.D.**, Vrieling K. & De longh H.H. (2013) Importance de la génétique pour la conservation du lion. L'atelier d'élaboration du Plan d'Action National sur la conservation du lion et du lycaon au Sénégal (Dalaba – Senegal). (invited)
 - **Bertola L.D.**, Vrieling K. & De longh H.H. (2012) Genetic methods for Lion Conservation. Annual Meeting of the Felid Taxon Advisory Group (European Association of Zoos and Aquaria - EAZA) (Amersfoort – The Netherlands). (invited)

- **Bertola L.D.**, Vrieling K. & De longh H.H. (2012) Genetics for lion conservation. Lion Range State meeting (Johannesburg – Republic of South Africa). (invited)
- **Bertola L.D.**, Vrieling K. & De longh H.H. (2012) Lion genetics: applications for conservation. African Lion Working Group meeting (Okaukuejo – Namibia).
- **Bertola L.D.**, Vrieling K. & De longh H.H. (2011) The Importance of Biogeographic Data for Lion Conservation. IUCN Conservation Breeding Specialist Group Annual meeting (Prague – Czech Republic). (invited)
- **Bertola L.D.**, Vrieling K. & De longh H.H. (2011) Use of genetic markers to unravel the phylogenetic position of the lion in West and Central Africa. 8th International Conference on Behaviour, physiology and genetics of wildlife (Berlin – Germany).
- **Bertola L.D.**, Vrieling K. & De longh H.H. (2011) The use of genetics for lion conservation. Nederland Annual Ecology Meeting (NAEM) (Lunteren – The Netherlands). (invited)
- **Bertola L.D.**, Vrieling K. & De longh H.H. (2010) Genetic diversity and phylogenetics of the lion in West and Central Africa. Carnivore Workshop (Maroua – Cameroon). (invited)
- **Bertola L.D.**, Vrieling K. & De longh H.H. (2010) Genetic diversity, evolutionary history and implications for conservation of the lion (*Panthera leo*) in West and Central Africa. Carnivore Researchers Meeting (Nairobi – Kenya). (invited)

Other attended meetings and conferences

Various seminars, including at Kathmandu University (Nepal), National Trust of Nature Conservation (Nepal), Makerere University (Uganda), University of Witwatersrand (South Africa).

- 6th Annual Conservation Genetics Meeting (2024) (Lausanne - Switzerland)
- Paris Conservation Genomics (2024) (Paris - France)
- Workshop on identifying conservation units, organized by the IUCN Conservation Genetics SG (2022) (Edinburgh – UK)
- Workshop on monitoring lions and their prey, organized by EWT & LRF (2022) (Dinokeng – South Africa) (invited)
- Biodiversity Genomics (2021) (Virtual Event)
- NSF Biodiversity Research Coordination Network (2019) (Gainesville, Florida – USA) (invited)
- NASA Biodiversity and Ecological Forecasting Team meeting (2019) (Washington DC – USA)
- Lion Studbook Meeting – Givskud Zoo (2018) (Givskud – Denmark) (invited)
- Lion Traceability Meeting (TRAFFIC and TRACE) (2018) (Pretoria – South Africa) (invited)
- KISS – Biodiversity Sciences Workshop: Unlocking a New Era in Biodiversity Science (Keck Institute for Space Studies) (2 sessions: 2018 + 2019) (Pasadena – USA) (invited)
- AF BIOTA Project Meeting (2018) (São Paulo – Brazil)
- 1st meeting IUCN Conservation Genetics Specialist Group (2017) (Antwerp – Belgium)
- Speaker at RGGs Symposium at the American Museum of Natural History (2017) (New York – USA)
- African Lion Working Group meeting (2016) (Kasane – Botswana)
- ICCB : 27th International Congress for Conservation Biology (2015) (Montpellier – France)
- Nederland Annual Ecology Meeting (NAEM) (2015) (Lunteren – The Netherlands)
- Conservation Biology and Wildlife Genetics, Symposium Kathmandu University (as lecturer on Conservation Genetics) (2013) (Dhulikhel – Nepal) (invited)
- IUCN World Conservation Congress (2012) (Jeju – South Korea)
- CONgress Meeting: Conservation Genetic Resources for Effective Species Survival (2012) (Antwerp – Belgium)
- NGS Symposium – NCB Naturalis (2011) (Leiden – The Netherlands)
- 4th Ecogenomics day (2011) (Amsterdam – The Netherlands)
- 7th International Conference on Behaviour, Physiology and Genetics of Wildlife (2009) (Berlin – Germany)

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