

Curriculum Vitae – Chiara Barbieri

Name: **Chiara**
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Current position

- Jul/20 **Independent Group Leader at University of Zurich.** Research group “Human genetic diversity across languages and cultures”.
- 2019 - Invited affiliation: Center for the Interdisciplinary Study of Language Evolution (ISLE), University of Zurich
- 2018 - Invited affiliation: Department of Linguistic and Cultural Evolution, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany

Higher education

- 2010 – 2013 **PhD in Biodiversity and Evolution**, University of Bologna, Italy, and Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany.
Title of Dissertation: *Comparing genetic and linguistic diversity in African populations with a focus on the Khoisan of southern Africa*. Final score: excellent with mention.
- 2005 – 2008 **Master Degree in Biodiversity and Evolution**, University of Bologna, Italy. Final score: 110 out of 110 with Honors.
- 2002 – 2005 **Bachelor Degree in Natural Sciences**, University of Bologna, Italy.

Academic Career

- Feb/18 - Jun/20 **Senior Postdoc (Oberassistent)** at University of Zurich. Genetic and linguistic analysis of South American prehistory, Coevolution of genes and languages in human populations.
- Jul/15 – Jan/18 **Postdoctoral position** at Max Planck Institute for the Science of Human History, Jena, Germany.
- Dec/14 - Jun/15 **Postdoctoral position** at Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany.
- Jul/13 - Oct/14 **Postdoctoral position** at University of Bologna, Italy

Sep/09 - Apr/13 **PhD position** at Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany.

Scientific experiences and training

Mar/22 **Fieldwork in Chile.** Returning the results of a genetic study. Field organization and project coordination.

Aug/21 **Workshop organization.** “The South American Ethnosphere”. Centro Congressi Stefano Franscini, Monte Verità, Switzerland.

May/19 **Fellowship at the DFG Center Words Bones Genes Tools, University of Tübingen, Germany.** Collaboration for the study of genetic and linguistic diversity in Peru.

Jan/19 **Fieldwork in Chile.** Human sample collection with Mapuche communities. Field organization and project coordination.

Dec/18 **Symposium organization.** “New Methods and Discoveries in Human Archaic Admixture”. University of Zurich.

Apr/16 - May/16 **Visiting guest at the Institut für Rechtsmedizin - Charité - Universitätsmedizin Berlin.** Y chromosome analysis in the Forensic Genetic department.

Dec/15 **Workshop co-organization.** “A cross-disciplinary prehistory of Andean Civilisation”. Max Planck Institute for the Science of Human History, Jena.

Nov/15 - Dec/15 **Fieldwork in Peru.** Human sample collection in the northern coast. Field organization and project coordination.

Jan/15 - Feb/15 **Fieldwork in Peru.** Human sample collection in the Chachapoyas province. Field organization and project coordination.

Oct/13 and Dec/13 **Fieldwork in Italy.** Human sample collection among local populations.

Nov/09 – Dec/09 **Fieldwork in Botswana.** Human sample collection among native populations.

Oct/08 – Jul/09 **Internship at Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany,** on project “Population relationships and language change in Burkina Faso”.

Jun/08 – Aug/08 **Internship on Molecular Anthropology, Parc Recerca Biomèdica de Barcelona (PRBB), Barcelona, Spain.** Lab analysis for the *Genographic Project* (National Geographic, IBM)

Aug/07 – Feb/08 **Laboratory experience on Molecular Anthropology, University of Bologna, Italy**

Apr/07 – Jun/07 **Fieldwork in Peru -** Human sample collection and anthropometrical measurements among native populations of the highlands and of the jungle.

Jun/06 and Jul/07 **Paleo-archaeological excavations at Isernia-La Pineta, Italy.** Collaboration with University of Ferrara, Italy.

Talks, conference presentations, invited seminars

- September 2022 **Heidelberg, Germany** - EMBO | EMBL Symposium Reconstructing the human past: using ancient and modern genomics. Talk: "The genetic history of the southern Andes reconstructed from present day Mapuche ancestry"
- December 2021 **Barcelona, Spain** (online)- Master course of empirical linguistics. Invited lecture: "Genetic and linguistic diversity: reconstructing the past, understanding the present"
- November 2021 **Jena, Germany** (online)- Workshop: Archaeology and language. Invited speaker (with Matthias Urban and Kurt Rademaker): "The languages of the Andes"
- October 2021 **Freiburg, Germany** - Workshop: Critical Life Science. Invited speaker: "Genetic studies and multidisciplinary approaches between history, representation and identity"
- September 2021 **Zurich, Switzerland** - Workshop: The molecular anthropology of language. Invited speaker: "Matches and mismatches between human genetic history and language diversity"
- August 2021 **Zurich, Switzerland** - Workshop: The reconstruction of human history through an interdisciplinary approach. Invited speaker: "Mobility vs continuity: confronting stories and perspectives from the genetic record"
- May 2021 **Zurich, Switzerland** - Conference "Race and racism" (online). Invited speaker: "Racism and representation in genetic and bioanthropological studies".
- January 2021 **Lima, Peru** - Global Microbiome Network-First Latin American Symposium (online). Invited speaker: "Bioanthropological research and community participation in South America".
- October 2020 **Zurich, Switzerland** - NCCR-ISLE colloquium series, UZH (online). Invited speaker: "Integrating human genetics and linguistic diversity"
- May 2020 **Tübingen, Germany** - Weekly kolloquium DFG Center Words, Bones, Genes and Tools, (online). Invited speaker: "Bridging the cultural and biological histories of human populations - from local to global"
- April 2020 **Los Angeles, USA** - AAPA annual meeting (online). Poster presentation: "Genetic relationships and linguistic diversity in present-day populations of South America".
- November 2019 **Lima, Peru** - Simposio Genómica, Salud, Historia y Diversidad Humana. Invited speaker: "Migración, Genética y Lingüística en la Prehistoria de Sudamérica".
- June 2019 **Split, Croatia** - 11th ISABS Conference on Human Genome Project Based Applications in Forensic Science, Anthropology and Individualized Medicine. Poster presentation: "A catalogue of human ancestry components from population studies".

- June 2019 **Genève, Switzerland** – Conference Peopling History of Africa. Poster presentation: “A bioarchaeological study of African individuals from an early Colonial period context from Mexico City”.
- April 2019 **Zurich, Switzerland** – Ringvorlesung der Kommission UZH Interdisziplinär. Invited seminar: “Genetic footprints of pre- and post-colonial contact in the Americas”.
- March 2019 **Heidelberg, Germany** – EMBO-EMBL symposium Reconstructing the Human Past - Using Ancient and Modern Genomics. Talk and poster: “Gene-Language mismatches in global human history”.
- March 2019 **Fribourg, Switzerland** – Invited lecture: “Genes and Languages: bridging our biological and cultural history”.
- March 2019 **Zurich, Switzerland** – Inaugural workshop of the Center for the Interdisciplinary Study of Language Evolution. Talk: “Language-Gene mismatches in global human history”.
- December 2018 **Jena, Germany** – Historical linguistics workshop. Invited speaker: “Bridging human genetic diversity and language change”.
- August 2018 **Zurich, Switzerland** – Mini-symposium of the Latin American Center Zurich. Invited speaker: “Genetic fingerprints of human migration and contact in South America”.
- July 2018 **Yokohama, Japan** – workshop “the (co-)evolution of genes, languages, and music from data analyses to theoretical models” Invited speaker: “Matches and mismatches between genes and languages: a case study from South America”.
- July 2018 **Yokohama, Japan** – Meeting of the Society of Molecular Biology and Evolution. Poster presentation: “Genome-wide variation in the Andes, Amazonia and Pacific coast of western South America”.
- June 2018 **Nijmegen, Netherlands** – conference Interdisciplinary Approaches in the Language Sciences. Invited Speaker: “Language and genes: bridging our biological and cultural history”.
- November 2017 **Hinxton, UK** – conference Human Evolution: Fossils, Ancient and Modern Genomes. Poster presentation: “Reconstructing human diffusion and collapse in the Americas”.
- October 2017 **Sao Paulo, Brazil** – Invited talk: “Evidencia genética de expansión y colapso poblacionales en las Américas”.
- October 2017 **Belo Horizonte, Brazil** – symposium “Populating the diverse landscapes of South America”. Invited participant.
- September 2017 **Tübingen, Germany** – Invited talk: “Matches and mismatches between genetic and linguistic diversity”.
- June 2017 **Barcelona, Spain** – workshop Co-evolutionary patterns and transition: Analysing processes of cultural change in cross-cultural and diachronic contexts. Invited talk: “Matches and mismatches between genetic and linguistic diversity: A case-study from the Andes”.
- March 2017 **Nijmegen, The Netherlands** – Invited Lecture at Max Planck Institute for Psycholinguistics “Matches and mismatches between genetic and linguistic diversity”.

- December 2016 **Paris, France**– Workshop “DNA polymorphisms in human populations”. Talk: “Reconstructing human diffusion and collapse in the Americas”
- November 2016 **Tübingen, Germany** – Symposium “New perspectives on the peopling of the Americas”. Invited speaker: “Reconstructing demographic change and population movements through the Amazonia to Pacific corridor”
- August 2016 **Jena, Germany** – Mini African Symposium – Linguistics, Genetics and Archaeology. Invited talk: “The role of West Africa within sub-Saharan genetic diversity”
- July 2016 **Gold Coast, Australia** – Meeting of the Society of Molecular Biology and Evolution. Poster presentation: “Reconstructing human diffusion and collapse in the Americas”
- April 2016 **Berlin, Germany** – Workshop Haploid Markers. Talk: “Y chromosome sequences from southern Africa: diversity, coalescence times, and rate variation”
- January 2016 **Huddersfield, UK** – Invited Lecture: “Insights into African population prehistory - From genetic and linguistic data”
- September 2015 **London, UK** – Meeting of the European Society for the study of Human Evolution (ESHE). Talk: “Paleolithic signatures from European glacial refugia revealed by mtDNA genomes”
- May 2015 **Leipzig, Germany** – Workshop “Speaking (of) Khoisan: a symposium reviewing southern African prehistory”. Invited speaker.
- February 2015 **Leipzig, Germany** – The Human Mutation Rate Meeting. Poster presentation: “Estimating the TMRCA of the Y chromosome phylogeny with new sequence data from southern Africa”
- June 2014 **Halle, Germany** – Workshop “The Claims of Descent: Science, Representation, Race and Redress in 21st Century South Africa”. Invited speaker. Talk “The use of the “ethnolinguistic” unit in genetic and linguistic research”
- April 2014 **Leicester, UK** – EMBO congress “Human evolution in the genomic era: Origins, populations and phenotypes”. Talk and poster: “Language contact and genetic variation in South America: the case of the Peruvian Yanasha”
- October 2013 **Boston, USA** – Meeting of the American Society of Human Genetics. Poster presentation: “Y chromosomal sequences from southern Africa allow direct comparison of paternal and maternal prehistories”
- August 2013 **Leipzig, Germany** – Workshop on Language diversity and prehistory. Invited speaker. Talk: “Prehistorical relationships in the Americas inferred through population genetics”
- September 2012 **Firenze, Italy** – Incontro Nazionale Giovani Antropologi. Invited speaker. Talk: “Variabilità genetica e linguistica a confronto in popolazioni Khoisan africane”
- June 2012 **Dublin, Ireland** – Meeting of the Society of Molecular Biology and Evolution. Poster presentation: “mtDNA genomes of Khoisan populations deciphered under a linguistic and social anthropological perspective”
- November 2011 **Leipzig, Germany** – Symposium on Population Prehistory of the Andes: A Cross-Disciplinary Conspectus. Invited presentation.
- October 2011 **Berlin, Germany** – Workshop on Methodology in Linguistic Prehistory. Invited speaker. Barbieri C. & Pakendorf B. “Integrating molecular data into the linguistic perspective on Khoisan prehistory”

- July 2010 **Lyon, France** – SMBE meeting. Poster presentation: "Complete mtDNA genome and Y chromosome data from West Africa: demographic history and population contact in Burkina Faso"
- June 2009 **Split, Croatia** - 6th ISABS Conference on Human Genome Project Based Applications in Forensic Science, Anthropology and Individualized Medicine. Talk and poster: "mtDNA variability in native Andean populations: the case of Lake Titicaca"

Grants, awards, fellowships

- November 2022 Grant "new research format" to produce a documentary, from the Latin American Zentrum Zurich, Switzerland (2,000 CHF)
- August 2021 Fellowship for workshop organization from the NCCR Evolving Language (3,000 CHF) and the Latin American Zentrum Zurich, Switzerland (3,000 CHF)
- 2017 - 2019 Post-Ph.D. Research Grant from the Wenner-Gren Foundation (20,000 \$)
- December 2018 Fellowship for symposium organization from the University Research Priority Program "Evolution in Action" of the University of Zurich, Switzerland (3,200 CHF)
- February 2015 Grant for fieldwork in Peru from the Department of Linguistics, Max Planck Institute for Evolutionary Anthropology, Leipzig (1500 €)
- September 2013 Award for Best PhD thesis from the Italian Association of Genetics
- June 2011 Scholarship for tuition fees of Summer Institute in Statistical Genetics from University of Washington, Seattle, USA. (1200 \$)
- June 2009 Split, Croatia - 6th ISABS Conference on Human Genome Project Based Applications in Forensic Science, Anthropology and Individualized Medicine. Recipient of Young Investigator Award (500 €)
- April 2007 Grant from University of Bologna for fieldwork in Peru (1000 €)

Teaching experience

University of Zurich

Undergraduate courses

2018 - 2022: Block course BIO373, Next Generation Sequencing for Evolutionary and Ecological Genomics.

Master courses

2019 - 2022: Semester module "Introduction to Human Genetics and Bioanthropology for linguists".

PhD courses

2019, 2020, 2022: BIO624 - Human Genetic, Demographic and Cultural Diversity.

University of Leipzig

2010 - 2013: Lectures for the graduate course of Molecular Anthropology.

University of Bologna

2008 - 2017: Teaching Assistance for undergraduate and graduate courses: Human Genetics, Physical Anthropology, Human Anatomy and Osteology, Human Ecology, Statistical Genetics for Molecular Anthropology. Lectures, laboratory sessions, computer sessions and grading.

Teaching for graduate programs

2019: Bioinformatic analysis in human genetic diversity. Invited tutor for the workshop on human diversity at University of San Martín de Porres, Lima, Peru. 2 days lectures and exercises.

2016-2017: Tutor for the Spring School of Quantitative Methods/Masterclass, MPI SHH Jena. Introduction to Genetics and phylogenetic reconstruction. 2 days lectures and exercises.

Professional Memberships

American Society of Human Genetics, European Society for the study of Human Evolution, Society for Molecular Biology and Evolution, Associazione Antropologica Italiana, Associazione Genetisti Italiani, Società Italiana di Biologia Evoluzionistica, Registro degli Antropologi Forensi Italiani, Lateinamerika-Zentrum Zürich

Other academic activity and qualifications

Reviewer for Molecular Biology and Evolution, American Journal of Human Genetics, BMC Genomics, PNAS, Cell, Plos One, American Journal of Physical Anthropology, European Journal of Human Genetics, American Journal of Human Biology, AIMS Genetics, Quaternary International, Human Heredity, Journal of Language Evolution, Forensic Science International: Genetics, Scientific Reports, Nature Communication, Current Anthropology, Annals of Human Genetics.

Ad hoc reviewer for PhD thesis, master thesis, national and international grants. Member of PhD review committees. Main supervisor for 3 master students, 2 bachelor thesis, 2 PhD students at University of Zurich. Co-supervision of Master and PhD students and visiting scientists (laboratory and computational analysis).

Associate editor for the Journal of Language Evolution. Academic editor for PeerJ.

Member of the scientific committee of the conference EvoLang – Evolution of Language. Member of the steering committee for the URPP Evolution in Action at the University of Zurich. Senior researcher in the NCCR Evolving Language – National Science Foundation, Switzerland.

Italian habilitation as associated professor in Anthropology and Human Genetics. Abilitazione Scientifica Nazionale: 05/B1, valid until 05/04/24; 05/I1, valid until 26/07/24

Participation to the program “Skype a Scientist” for scientific outreach in schools.

Publications

Barbieri, C., Blasi, D. E., Arango-Isaza, E., Sotiropoulos, A. G., Hammarström, H., Wichmann, S., Greenhill, S. J., Gray, R. D., Forkel, R., Bickel, B., & Shimizu, K. K. 2022. A global analysis of matches and mismatches between human genetic and linguistic histories. *Proceedings of the National Academy of Sciences*, 119(47), e2122084119 <https://www.pnas.org/doi/10.1073/pnas.2122084119>

Sotiropoulos, A.G., Arango-Isaza, E., Ban, T., **Barbieri, C.**, Bourras, S., Cowger, C., Czembor, P.C., Ben-David, R., Dinor, A., Ellwood, S.R., Graf, J., Hatta, K., Helguera, M., Sánchez-Martín, J., McDonald, B.A., Morgounov, A.I., Müller, M.C., Shamanin, V., Shimizu, K.K., Yoshihira, T., Zbinden, H., Keller, B., Wicker, T., 2022. Global genomic analyses of wheat powdery mildew reveal association of pathogen spread with historical human migration and trade. *Nat. Commun.* 13, 4315. <https://doi.org/10.1038/s41467-022-31975-0>

Lankheet I, Vicente M, **Barbieri C**, Schlebusch C. 2021. The performance of common SNP arrays in assigning African mitochondrial haplogroups. *BMC Genomic Data* 221 22, 1–8

Aguirre-Fernández G*, **Barbieri C***, Graff A, Pérez de Arce J, Moreno H, Sánchez-Villagra MR. (*first authors contributed equally). 2021. "Cultural macroevolution of musical instruments in South America". *Humanit Soc Sci Commun* 8, 208. <https://doi.org/10.1057/s41599-021-00881-z>

Schlebusch CM, Loog L, Groucutt HS, King T, Rutherford A, **Barbieri C**, Barbujani G, Chikhi L, Stringer C, Jakobsson M, Eriksson A, Manica A, Tishkoff SA, Scerri EM, Scally A, Brierley C, & Thomas MG. 2021. Human origins in Southern African palaeo-wetlands? Strong claims from weak evidence. *Journal of Archaeological Science*, 130, 105374. <https://doi.org/10.1016/j.jas.2021.105374>

Urban M & **Barbieri C**. 2020. North and South in the ancient Central Andes: contextualizing the archaeological record with evidence from linguistics and molecular anthropology. *Journal of Anthropological Archaeology*, 60, 101233

Nakatsuka N, Lazaridis I, **Barbieri C**, Skoglund P, Rohland N, Mallick S, Harkins-Kinkaid K, Ferry M, Harney E, Michel M, et al. 2020. A Paleogenomic Reconstruction of the Deep Population History of the Andes. *Cell* 181:1131-1145.e21.

Barquera R, Lamnidis TC, Lankapalli AK, Kocher A, Hernández-Zaragoza DI, Nelson EA, Zamora-Herrera AC, Ramallo P, Bernal-Felipe N, Immel A, Bos K, Acuña-Alonzo V, **Barbieri C**, Roberts P, Herbig A, Kühnert D, Márquez-Morffín L, Krause J. 2020. Origin and Health Status of First-Generation Africans from Early Colonial Mexico. *Curr. Biol.* 30(11), 2078-2091.e11

Barbieri C, Barquera R, Arias L, Sandoval JR, Acosta O, Zurita C, Aguilar-Campos A, Tito-Álvarez AM, Serrano-Osuna R, Gray R, Mafessoni F, Heggarty P, Shimizu KK, Fujita R, Stoneking M, Pugach I, Fehren-Schmitz L. 2019. The current genomic landscape of western South America: Andes, Amazonia and Pacific Coast. *Mol Biol Evol.* 36(12), 2698–2713.

Bajić V, **Barbieri C**, Hübner A, Güldemann T, Naumann C, Gerlach L, Berthold F, Nakagawa H, Mpoloka SW, Roewer L, Purps J, Stoneking M, Pakendorf B. 2018. Genetic structure and sex-biased gene flow in the history of southern African populations. *American Journal of Physical Anthropology*. 167(3), 656-671.

Tucci S, Vohr SH, McCoy RC, Vernet B, Robinson MR, **Barbieri C**, Nelson BJ, Fu W, Purnomo GA, Sudoyo H, Eichler EE, Barbujani G, Visscher PM, Akey JM, Green RE. 2018. Evolutionary history and adaptation of a human pygmy population of Flores Island, Indonesia. *Science* 361:511–516.

Arias L, **Barbieri C**, Barreto G, Stoneking M, Pakendorf B. High-resolution mitochondrial DNA analysis sheds light on human diversity, cultural interactions, and population mobility in Northwestern Amazonia. 2018. *American Journal of Physical Anthropology*; 165(2): 238-255.

Barbieri C, Sandoval JR, Valqui J, Shimelman A, Ziemendorff S, Schröder R, Geppert M, Roewer L, Gray R, Stoneking M, Fujita R and Heggarty P. 2017. Enclaves of genetic diversity resisted Inca impacts on population history. *Scientific Reports*, 7: 17411.

Bortolini E, Pagani L, Crema ER, Sarno S, **Barbieri C**, Boattini A, Sazzini M, Da Silva SG, Martini G, Metspalu M, Pettener D. 2017. Inferring patterns of folktale diffusion using genomic data. *Proceedings of the National Academy of Sciences*, p.201614395.

Sarno S, Boattini A, Pagani L, Sazzini M, De Fanti S, Quagliariello A, Gneccchi-Ruscione GA, Guichard E, Ciani G, Bortolini E, **Barbieri C**, Cilli E, Petrilli R, Mikerezi I, Sineo L, Vilar M, Wells S, Luiselli D, Pettener D. 2017. Ancient and recent admixture layers in Sicily and Southern Italy trace multiple migration routes along the Mediterranean. *Scientific Reports*, 7(1), p.1984.

Boattini A, Sarno S, Bini C, Pesci V, **Barbieri C**, De Fanti S, Quagliariello A, Pagani L, Ayub Q, Ferri G, Pettener D, Luiselli D, Pelotti S. 2016. Mutation rates and discriminating power for 13 Rapidly-Mutating Y-STRs between related and unrelated individuals. *Plos One*. 11 (11) pp: e0165678

Malaspinas AS, Westaway MC, Muller C, Sousa VC, Lao O, Alves I, Bergström A, Athanasiadis G, Cheng JY, Crawford JE, Heupink TH, Macholdt E, Peischl S, Rasmussen S, Schiffels S, Subramanian S, Wright JL, Albrechtsen A, **Barbieri C**, et al. 2016. A genomic history of Aboriginal Australia. *Nature*. 538: 207–214.

Barbieri C, Hübner A, Macholdt E, Ni S, Lippold S, Schröder R, Mpoloka SWSW, Purps J, Roewer L, Stoneking M, Pakendorf B. 2016. Refining the Y chromosome phylogeny with southern African sequences. *Human Genetics*, 135 (5), 541–553

De Fanti S*, **Barbieri C***, Sarno S, Sevini F, Vianello D, Tamm E, Metspalu E, Van Oven M, Hübner A, Sazzini M, Franceschi C, Pettener D, Luiselli D. (*first authors contributed equally). 2015. Fine dissection of human mitochondrial DNA haplogroup HV lineages reveals Paleolithic signatures from European glacial refugia. *PLoS ONE* 10(12): e0144391.

Barbieri C, Heggarty P, Yang Yao D, Ferri G, De Fanti S, Sarno S, Ciani G, Boattini A, Luiselli D, Pettener D. 2014. Between Andes and Amazon: The genetic profile of the Arawak-speaking Yanésha. *American Journal of Physical Anthropology*, 155: 600–609.

Barbieri C, Vicente M, Oliveira S, Bostoen K, Rocha J, Stoneking M, Pakendorf B. 2014. Migration and interaction in a contact zone: mtDNA variation among Bantu-speakers in southern Africa. *PLoS One*: 9(6):e99117.

Macholdt E, Lede V, **Barbieri C**, Mpoloka SW, Chen H, Slatkin M, Pakendorf B, Stoneking M. 2014. Tracing Pastoralist Migrations to Southern Africa with Lactase Persistence Alleles. *Current Biology* 24: 875-879.

Giuliani C, **Barbieri C**, Li M, Bucci L, Monti D, Passarino G, Luiselli D, Franceschi C, Stoneking M, Garagnani P. 2014. Transmission from centenarians to their offspring of mtDNA heteroplasmy revealed by ultra-deep sequencing. *AGING* 6:454–467.

Barbieri C, Güldemann T, Naumann C, Gerlach L, Berthold F, Nakagawa H, Mpoloka SW, Stoneking M, Pakendorf B. 2014. Unraveling the complex maternal history of Southern African Khoisan populations. *American Journal of Physical Anthropology*, 153:435–448.

Barbieri C, Vicente M, Rocha J, Mpoloka SW, Stoneking M, Pakendorf B. 2013. Ancient substructure in early mtDNA lineages of southern Africa. *The American Journal of Human Genetics*, 92.2: 285-292.

Pickrell JK, Patterson N, **Barbieri C**, Berthold F, Gerlach L, Güldemann T, Kure B, Mpoloka SW, Nakagawa H, Naumann C, Lipson M, Loh P-R, Lachance J, Mountain J, Bustamante CD, Berger B, Tishkoff SA, Henn BM, Stoneking M, Reich D, Pakendorf B. 2012. The genetic prehistory of southern Africa. *Nat Commun* 3:1143

Barbieri C, Butthof A, Bostoen K, Pakendorf B. 2013. Genetic perspectives on the origin of clicks in Bantu languages from southwestern Zambia. *European Journal of Human Genetics*: 21:430–436.

Barbieri C, Whitten M, Beyer K, Schreiber H, Li M, Pakendorf B. 2012. Contrasting maternal and paternal histories in the linguistic context of Burkina Faso. *Molecular Biology and Evolution* 29:1213–1236

de Filippo C*, **Barbieri C***, Whitten M, Mpoloka SW, Gunnarsdóttir ED, Bostoen K, Nyambe T, Beyer K, Schreiber H, de Knijff P, Luiselli D, Stoneking M, Pakendorf B. (*first authors contributed equally). 2011. Y-chromosomal variation in Sub-Saharan Africa: insights into the history of Niger-Congo groups. *Molecular Biology and Evolution* 28(3): 1255-1269

Barbieri C, Heggarty P, Castri L, Luiselli D, Pettener D. 2011. Mitochondrial DNA variability in the Titicaca basin: Matches and mismatches with linguistics and ethnohistory. *American Journal of Human Biology*, 23: 89–99.

Invited contributions

Barbieri C. 2020. Genetic Exchanges in Transitional Environments of South America. In Heggarty, P and Pierce, A (eds) Rethinking the Andes-Amazonia 'Divide': A Cross-Disciplinary Exploration. *UCL University Press*.

Edited volumes

A. Ravignani, **C. Barbieri**, M. Flaherty, Y. Jadoul, E. Lattenkamp, H. Little, M. Martins, K. Mudd, & T. Verhoef (Eds.), The Evolution of Language: Proceedings of the 13th International Conference (Evolang13). 2020. Nijmegen: The Evolution of Language Conferences.
https://brussels.evolang.org/proceedings/evolang13_proceedings.pdf

Guest editor for the special issue "The Genomic Impact of Human Migrations" of the journal Genes.
https://www.mdpi.com/journal/genes/special_issues/Genomic_Human_Migrations