LANCIONI HOVIRAG, Ph.D.

Current Position: Associate Professor in Genetics (BIOS-14/A, ex SSD BIO/18 Genetics), Dept of Chemistry, Biology and Biotechnology, University of Perugia. Via Elce di sotto, I-06123, Perugia, Italy. Tel. (39) 0755855747. E-mail: hovirag.lancioni@unipg.it
Place and DOB: Assisi (PG, Italy), January 21, 1976.

ACADEMIC FORMATION

2005: Ph.D. degree in Biology and Ecology, University of Perugia.
2001: National Qualification to the profession of Biologist obtained by the University of Perugia.
2000: "Laurea" (Master's Degree) *cum laude* in Biological Sciences. University of Perugia.

PREVIOUS POSITIONS

2016-2019: Assistant Professor (Senior Research contract, RTDb) in Genetics (SSD BIO/18), Dept of Chemistry, Biology and Biotechnology, University of Perugia.
2013-2019: Assistant Professor (three-year Junior Research contract RTDa) in Genetics (SSD BIO/18), Dept of Chemistry, Biology and Biotechnology, University of Perugia.

RESEARCH INTERESTS

Her research activity mainly focuses on: 1) the analysis of nuclear and mitochondrial DNA sequence variation in order to shed light on human and animal origin, evolution and dispersal routes; 2) the use of molecular markers for the analysis of intraspecific biodiversity.

PROJECTS PARTECIPATION

- PRIN2022 "Rendeneri people and their cattle: a Dolomite valley genomic perspective" Research Unit Coordinator (cod.2022SNEBJY)
- iTAGC: iTalian ArchaeoGenomiCs in the peninsula's "heart" Fondazione Human Technopole capofila University of Pavia
- German Research Foundation 2020 EG 64/5-1 "Bisenzio. Multi-disciplinary research on a major Etruscan centre from the Late Bronze Age to the Archaic period" Team member, in charge of genetic analyses.
- FISR 2020 COVID "Study of the structure-function relationship of SARS-CoV-2 protein E for the development of therapeutic agents in the treatment of Covid-19" (FISR2020IP_03461). Team member
- Bando Ricerca di Base 2017 - "Combining paleolimnological and genetic analyses to disentangle anthropogenic/climate impacts on a perturbed lake ecosystem". Principal Investigator.
- National Geographic Society Grant Application (HJ-115ER-17). "Could mitochondrial haplogroup H in the heart of Asia unveil a far echo from the West?". 2018. Team member
- PRIN 2012. Projects of Relevant National Interest. Project title: "Human genetic prehistory: times and modes of geographic and demographic expansions by using highly resolved (calibrated) molecular phylogenies" (cod. 2012JA4BTY).
- FIRB-Futuro in Ricerca 2012. "The genetic history of Italy as traced by genomic analysis of humans and domesticated animals" (cod. RBFR126B8I).
- FIR-Futuro in Ricerca 2008. "The parallel genetic history of humans and domesticated animals" (cod. RBFR08U07M).
- F.I.S.R. 2006-2009. "Integrate model for evolution of natural and agricultural ecosystems in response to climatic changes in the Mediterraneo (M.I.C.E.N.A.)"

BIBLIOMETRIC INDICES:

Scopus (Author ID: 6507657468): Docs: 63; Total citations: 1746; H-index: 23.
ISI-Web of Knowledge (ResearcherID: F-9067-2014): Docs: 66; Total citations: 1692; H-index: 23.
ORCID: orcid.org/0000-0001-5514-1853

SELECTED ISI PUBLICATIONS *in extenso* *(IF=Impact Factor)*

1. Colombo G, Moroni E, Raveane A, Rambaldi Migliore N, Agostini V, Di Gerlando R, Fiorini C, Caporali L, Gandini F, Raimondi E, D'Atanasio E, Lancioni H, Carelli V, Pala M, Trombetta B, Novelletto A, Dugoujon JM, Achilli A, Torroni A, Richards MB, Cruciani F, Semino O, Olivieri A. The origin of modern North Africans as depicted by a massive survey of mitogenomes. Scientific Reports. 2025 Jul 25;15(1):27025. doi: 10.1038/s41598-025-12209-x [IF2024: 3.900].

2. Crisà A, Cardinali I, Giontella A, Silvestrelli M, Lancioni H§, Buttazzoni L. A Genetic Make Up of Italian Lipizzan Horse Through Uniparental Markers to Preserve Historical Pedigrees. Biology. 2024; 13(12):1087. doi: 10.3390/biology13121087 [IF2023: 3.500]. §Corresponding author
3. Torricelli M, Fratto A, Costarelli S, Lancioni H, Torina A, Panzieri C, Sebastiani C, Ciullo M, Cruciani D, Crotti S, Mazzone P, Biagetti M. Exploring immuno-genetic resistance in pigs to the food-borne zoonotic pathogen, Toxoplasma gondii. Italian Journal of Food Science, 2024; 36 (3): 72–79 [IF2024: 3.300].
4. Giontella A, Cardinali I, Sarti FM, Silvestrelli M, Lancioni H§. Y-Chromosome Haplotype Report among Eight Italian Horse Breeds. Genes. 2023; 14(8):1602. doi: 10.3390/genes14081602 [IF2023: 2.800]. §Corresponding author
5. Perini F, Cardinali I, Ceccobelli S, Gruppetta A, José CS, Cosenza M, Musso N, Martìnez A, Abushady AM, Monteagudo LV, Liotta L, Lancioni H*, Attard G*, Lasagna E*. Phylogeographic and population genetic structure of hound-like native dogs of the Mediterranean Basin. Research in Veterinary Science. 2023 Feb;155:103-114. doi: 10.1016/j.rvsc.2023.01.010 [IF2023: 2.200]. *These authors contributed equally to this work.
6. Reitsema LJ, Mittnik A, Kyle B, Catalano G, Fabbri PF, Kazmi ACS, Reinberger KL, Sineo L, Vassallo S, Bernardos R, Broomandkhoshbacht N, Callan K, Candilio F, Cheronet O, Curtis E, Fernandes D, Lari M, Lawson AM, Mah M, Mallick S, Mandl K, Micco A, Modi A, Oppenheimer J, Özdogan KT, Rohland N, Stewardson K, Vai S, Vergata C, Workman JN, Zalzala F, Zaro V, Achilli A, Anagnostopoulos A, Capelli C, Constantinou V, Lancioni H, Olivieri A, Papadopoulou A, Psatha N, Semino O, Stamatoyannopoulos J, Valliannou I, Yannaki E, Lazaridis I, Patterson N, Ringbauer H, Caramelli D, Pinhasi R, Reich D. The diverse genetic origins of a Classical period Greek army. Proceedings of the National Academy of Sciences 2022 Oct 11;119(41):e2205272119. doi: 10.1073/pnas.2205272119. Epub 2022 Oct 3. PMID: 36191217. [IF2022: 11.100].
7. Modi A, Vizzari MT, Catalano G, Boscolo Agostini R, Vai S, Lari M, Vergata C, Zaro V, Liccioli L, Fedi M, Barone S, Nigro L, Lancioni H, Achilli A, Sineo L, Caramelli D, Ghirotto S. Genetic structure and differentiation from early bronze age in the mediterranean island of Sicily: Insights from ancient mitochondrial genomes. Frontiers in Genetics. 2022 Sep 9;13:945227. doi: 10.3389/fgene.2022.945227 [IF2022: 3.700].
8. Bodner M, Amory C, Olivieri A, Gandini F, Cardinali I, Lancioni H, Huber G, Xavier C, Pala M, Fichera A, Schnaller L, Gysi M, Sarno S, Pettener D, Luiselli D, Richards MB, Semino O, Achilli A, Torroni A, Parson W. Helena's Many Daughters: More Mitogenome Diversity behind the Most Common West Eurasian mtDNA Control Region Haplotype in an Extended Italian Population Sample. International Journal of Molecular Sciences 2022 Jun 16;23(12):6725. doi: 10.3390/ijms23126725. PMID: 35743173; PMCID: PMC9223851. [IF2022: 5.600].
9. Lombardo G, Rambaldi Migliore N, Colombo G, Capodiferro MR, Formenti G, Caprioli M, Moroni E, Caporali L, Lancioni H, Secomandi S, Gallo GR, Costanzo A, Romano A, Garofalo M, Cereda C, Carelli V, Gillespie L, Liu Y, Kiat Y, Marzal A, López-Calderón C, Balbontín J, Mousseau TA, Matyjasiak P, Møller AP, Semino O, Ambrosini R, Bonisoli-Alquati A, Rubolini D, Ferretti L, Achilli A, Gianfranceschi L, Olivieri A, Torroni A. The Mitogenome Relationships and Phylogeography of Barn Swallows (Hirundo rustica). Molecular biology and evolution 2022 Jun 2;39(6):msac113. doi: 10.1093/molbev/msac113. PMID: 35617136; PMCID: PMC9174979. [IF2022: 10.700].
10. Cardinali I, Bodner M, Capodiferro MR, Amory C, Rambaldi Migliore N, Gomez EJ, Myagmar E, Dashzeveg T, Carano F, Woodward SR, Parson W, Perego UA, Lancioni H and Achilli A (2022). Mitochondrial DNA Footprints from Western Eurasia in Modern Mongolia. Frontiers in Genetics 12:819337. doi: 10.3389/fgene.2021.819337. [IF2022: 3.700].
11. Kunelauri N, Gogniashvili M, Tabidze V, Basiladze G, Cardinali I, Lancioni H*, Beridze T*. The first complete mitogenomes and phylogeny of Georgian Mountain Cattle. Mitochondrial DNA Part B-Resources 2022 Aug 24;7(8):1531-1533. doi: 10.1080/23802359.2022.2110531. PMID: 36034533; PMCID: PMC9415449. *Co-senior authors [IF2022: 0.500].
12. Modi A*, Lancioni H*§, Cardinali I*, Capodiferro MR*, Rambaldi Migliore N, Hussein A, Strobl C, Bodner M, Schnaller L, Xavier C, Rizzi E, Bonomi Ponzi L, Vai S, Raveane A, Cavadas B, Semino O, Torroni A, Olivieri A, Lari M, Pereira L, Parson W, Caramelli D, Achilli A (2020). The mitogenome portrait of Umbria in Central Italy as depicted by contemporary inhabitants and pre-Roman remains. Scientific Reports Jul 1;10(1):10700. doi: 10.1038/s41598-020-67445-0. *These authors contributed equally to this work. §Corresponding author. [IF2020: 4.380].
13. Lancioni H§, Cardinali I, Giontella A, Antognoni MT, Miglio A (2020). Mitochondrial DNA variation in the Italian Heavy Draught Horse. PeerJ. May 15;8:e8996. doi: 10.7717/peerj.8996. §Corresponding author. [IF2020: 2.984].
14. Raveane A, Aneli S, Montinaro F, Athanasiadis G, Barlera S, Birolo G, Boncoraglio G, Di Blasio AM, Di Gaetano C, Pagani L, Parolo S, Paschou P, Piazza A, Stamatoyannopoulos G, Angius A, Brucato N, Cucca F, Hellenthal G, Mulas A, Peyret-Guzzon M, Zoledziewska M, Baali A, Bycroft C, Cherkaoui M, Chiaroni J, Di Cristofaro J, Dina C, Dugoujon JM, Galan P, Giemza J, Kivisild T, Mazieres S, Melhaoui M, Metspalu M, Myers S, Pereira L, Ricaut FX, Brisighelli F, Cardinali I, Grugni V, Lancioni H, Pascali VL, Torroni A, Semino O, Matullo G, Achilli A, Olivieri A, Capelli C (2019). Population structure of modern-day Italians reveals patterns of ancient and archaic ancestries in Southern Europe. Science Advances Sep 4;5(9):eaaw3492. doi: 10.1126/sciadv.aaw3492. [IF2019: 13.116].
15. Grugni V, Battaglia V, Perego UA, Raveane A, Lancioni H, Olivieri A, Ferretti L, Woodward SR, Pascale JM, Cooke R, Myres N, Motta J, Torroni A, Achilli A, Semino O (2015). Exploring the Y chromosomal ancestry of modern Panamanians. PLoS ONE 4;10(12):e0144223. doi: 10.1371/journal.pone.0144223. eCollection 2015 [IF2015: 3.057].
16. Vai S, Ghirotto S, Pilli E, Tassi F, Lari M, Rizzi E, Matas-Lalueza L, Ramirez O, Lalueza-Fox C, Achilli A, Olivieri A, Torroni A, Lancioni H, Giostra C, Bedini E, Baricco LP, Matullo G, Di Gaetano C, Piazza A, Veeramah K, Geary P, Caramelli D, Barbujani G (2015). Genealogical Relationships between Early Medieval and Modern Inhabitants of Piedmont. PLoS ONE 30;10(1):e0116801 [IF2015: 3.057].

17. Achilli A, Perego UA, Lancioni H, Olivieri A, Gandini F, Hooshiar Kashani B, Battaglia V, Grugni V, Angerhofer N, Rogers MP, Herrera RJ, Woodward SR, Labuda D, Smith DG, Cybulski JS, Semino O, Malhi RS, Torroni A (2013). Reconciling migration models to the Americas with the variation of North American native mitogenomes. Proceedings of the National Academy of Sciences USA 110(35):14308-14313 [IF2013: 9.809].
18. Pilli E, Modi A, Serpico C, Achilli A, Lancioni H, Lippi B, Bertoldi F, Gelichi S, Lari M, Caramelli D (2013) Monitoring DNA Contamination in Handled vs. Directly Excavated Ancient Human Skeletal Remains. PLoS ONE 8(1):e52524 [IF2013: 3.534].
19. Perego UA*, Lancioni H*, Tribaldos M*, Angerhofer N, Ekins JE, Olivieri A, Woodward SR, Pascale JM, Cooke R, Motta J, Achilli A (2012). Decrypting the mitochondrial gene pool of modern Panamanians. PLoS ONE 7(6):e38337. [IF2012: 3.730]. *These authors contributed equally to this work
20. Cerezo M, Achilli A, Olivieri A, Perego UA, Gómez-Carballa A, Brisighelli F, Lancioni H, López-Soto M, Carracedo Á, Capelli C, Torroni A, Salas A (2012). Reconstructing ancient mitochondrial DNA links between Africa and Europe. Genome Research 22(5):821-826. [IF2012: 14.397]. (Cover story article)

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