

LANCIONI HOVIRAG, Ph.D.

Current Position: Associate Professor in Genetics (SSD BIO/18), 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

Apr 15, 2021: National Scientific Qualifications (*Abilitazione Scientifica*) as Full Professor of Genetics (BIO/18, *Settore Concorsuale 05/11*)

Jun 11, 2021: National Scientific Qualifications (*Abilitazione Scientifica*) as Full Professor of Zoology and Anthropology (*Settore Concorsuale 05/B1*).

Jun 09, 2021: National Scientific Qualifications (*Abilitazione Scientifica*) as Full Professor of Animal Sciences and Technologies (*Settore Concorsuale 07/G1*).

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.

PROFESSIONAL EXPERIENCE

Sep 2010-Aug 2013: Postdoctoral scholar Dept of Cellular and Environmental Biology, University of Perugia.

Jul 2010-Sept 2010: contract with Università Cattolica del Sacro Cuore (Piacenza)

Oct 2013: Course attendance "Introductory Course of Bioinformatics" held at the University of Perugia

Jul 2008: stage at the Molecular, Anthropology and Paleogenetic Laboratory, supervisor prof. David Caramelli (Dept of Evolutionary Biology, University of Florence)

2007-2010: Postdoctoral scholar Dept of Cellular and Environmental Biology, University of Perugia

2006: Post-doctoral fellowship, Dept. of Cellular and Environmental Biology, University of Perugia

2006: contract with the Dept of Cellular and Environmental Biology, University of Perugia

2005: annual fellowship, Dept of Cellular and Environmental Biology, University of Perugia

2001-2005: collaboration with the Cellular Physiology Laboratory, University of Chieti.

2001-now: Tutor and co-tutor of Ph.D, master and bachelor degree theses

2013-now: Lecturer in Genetics, Molecular Genetics, Genetics and Genomics, program in Biotechnology, program in Biological Science and program in Biology, University of Perugia.

2015-now: Supervisor of the Population genetics and molecular evolution Unit in the Research group "Bio-Molecular Diversity & Evolutionary Biology".

2015-now: Supervisor of the inter-university agreement between the University of Perugia, Dept of Chemistry, Biology and Biotechnology, and the Medical University di Innsbruck (manager of the convention: Prof. Walther Parson)

2015-now: Supervisor of the scientific agreement between the Dept of Chemistry, Biology and Biotechnology and the Sport Horse Research Centre headquartered at Dept. of Veterinary Medicine, University of Perugia.

2020-now: Supervisor of the Cooperative Agreement between the University of Perugia and the Ministry of Tourism & Antiquities, Palestine.

2010-now: Member of the following Professional Societies: Italian Genetics Association and Italian Union of Zoology

2009-now: Reviewer for international journals such as Scientific Reports, Plos ONE, Archivos de zootecnia, Animal Genetics, Current Genetics, PeerJ.

2012-now: Review Editor in "Evolutionary and Population Genetics" for Frontiers in Genetics

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

- 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
- Piano di Sviluppo Rurale (PSR Umbria, sottomisura 16.2.2) –“ Smarthorse: sviluppo di un sistema di gestione della stalla tramite tecnologia RFID Bluetooth applicato all’allevamento del cavallo TPR in Umbria”. Project Coordinator for the Dept of Chemistry, Biology and Biotechnology
- Ricerca di Base 2015 Fondazione Cassa di Risparmio di Perugia - “Tracciabilità genetica di prodotti tipici umbri: lenticchia e capra della Valnerina” 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: 59; Total citations: 1447; H-index: 21.

ISI-Web of Knowledge (ResearcherID: F-9067-2014): Docs: 63; Total citations: 1420; H-index: 22.

ORCID: orcid.org/0000-0001-5514-1853

She also authored and co-authored 75 conference proceedings submitted to national and international congresses, eight of them as speaker, and one as invited speaker.

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

1. Gáspárdy A, Wagenhoffer Z, Fűrlinger D, Halmágyi M, Bodó I, Lancioni H, Maróti-Agóts Á. Matrilinial Composition of the Reconstructed Stock of the Szekler Horse Breed. *Agriculture*. 2023; 13(2):456. doi:10.3390/agriculture13020456 [IF2022: 3.408].
2. Scoparo M, Cardinali I, La Porta G, Caldaroni B, Magara G, Dörr AJM, Elia AC, Lancioni H. Phylogenetic Diversity of the Red Swamp Crayfish *Procambarus clarkii* and Its Dispersal Pattern in Northern and Central Italy. *Biology (Basel)*. 2023 Feb 15;12(2):313. doi: 10.3390/biology12020313 [IF2022: 5.168].
3. Alabed HBR, Gorello P, Pellegrino RM, Lancioni H, La Starza R, Taddei AA, Urbanelli L, Buratta S, Fernandez AGL, Matteucci C, Caniglia M, Arcioni F, Mecucci C, Emiliani C. Comparison between Sick Cell Disease Patients and Healthy Donors: Untargeted Lipidomic Study of Erythrocytes. *Int J Mol Sci*. 2023 Jan 28;24(3):2529. doi: 10.3390/ijms24032529 [IF2022: 6.208].
4. Perini F, Cardinali I, Ceccobelli S, Gruppetta A, José CS, Cosenza M, Musso N, Martínez 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. *Res Vet Sci*. 2023 Feb;155:103-114. doi: 10.1016/j.rvsc.2023.01.010 [IF2022: 2.554]. *These authors contributed equally to this work.
5. Cardinali I, Giontella A, Tommasi A, Silvestrelli M, Lancioni H. Unlocking Horse Y Chromosome Diversity. *Genes*. 2022; 13(12):2272. Doi: 10.3390/genes13122272 [IF2022: 4.14].
6. 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. *Front Genet.* 2022 Sep 9;13:945227. doi: 10.3389/fgene.2022.945227

7. Reitsemá LJ, Mitnik 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, Zalzalá 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. *Proc Natl Acad Sci U S A.* 2022 Oct 11;119(41):e2205272119. doi: 10.1073/pnas.2205272119. Epub 2022 Oct 3. PMID: 36191217. **[IF2021: 12.78]**.
8. 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 B Resour.* 2022 Aug 24;7(8):1531-1533. doi: 10.1080/23802359.2022.2110531. PMID: 36034533; PMCID: PMC9415449.
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.
10. 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. **[IF2021: 6.208]**.
11. 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. *Front. Genet.* 12:819337. doi: 10.3389/fgene.2021.819337. **[IF2020: 4.270]**.
12. Dörr AJM, Scoparo M, Cardinali I, La Porta G, Caldaroni B, Magara G, Pallottini M, Selvaggi R, Cenci-Goga B, Goretti E, Cappelletti D, Lancioni H*, Elia AC*. Population Ecology and Genetic Diversity of the Invasive Alien Species *Procambarus clarkii* in Lake Trasimeno (Italy). *Biology (Basel)*. 2021 Oct 18;10(10):1059. doi: 10.3390/biology10101059. *Joint last author **[IF2021: 5.168]**. Senczuk G, Mastrangelo S, Ajmone-Marsan P, Becskei Z, Colangelo P, Colli L, Ferretti L, Karsli T, Lancioni H, Lasagna E, Marletta D, Persichilli C, Portolano B, Sarti F M, Ciani E, Pilla F. Into the origin and diversification of Podolian cattle breeds by testing Neolithic scenarios of European colonization using genome-wide SNP data. *Genetics Selection Evolution* Jun 2;53(1):48. doi: 10.1186/s12711-021-00639-w. **[IF2019: 3.950]**.
13. 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. **[IF2019: 3.998]**.
14. Giontella A, Cardinali I, Pieramati C, Cherchi R, Biggio GP, Achilli A, Silvestrelli M, Lancioni H (2020). A Genetic Window on Sardinian Native Horse Breeds through Uniparental Molecular Systems. *Animals (Basel)*. Sep 1;10(9):E1544. doi: 10.3390/ani10091544. **[IF2019: 2.323]**.
15. Giontella A, Sarti FM, Cardinali I, Giovannini S, Cherchi R, Lancioni H, Silvestrelli M, Pieramati C (2020). Genetic Variability and Population Structure in the Sardinian Anglo-Arab Horse. *Animals (Basel)*. Jun 11;10(6):1018. doi: 10.3390/ani10061018. **[IF2019: 2.323]**.
16. 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. **[IF2019: 2.380]**.
17. Giontella A, Cardinali I, Lancioni H, Giovannini S, Pieramati C, Silvestrelli M, Sarti FM (2020). Mitochondrial DNA Survey Reveals the Lack of Accuracy in Maremmano Horse Studbook Records. *Animals (Basel)*. May 12;10(5):839. doi: 10.3390/ani10050839. **[IF2019: 2.323]**.
18. Marozzi G, Benucci GMN, Suriano E, Sitta N, Raggi L, Lancioni H, Baciarelli Falini L, Albertini E, Donnini D (2020). *Tuber mesentericum* and *Tuber aestivum* Truffles: New Insights Based on Morphological and Phylogenetic Analyses. *Diversity* 2020, 12, 349. doi:10.3390/d12090349 **[IF2019: 1.402]**.
19. Lasagna E, Ceccobelli S, Cardinali I, Perini F, Bhadra U, Thangaraj K, Dababani RC, Rai N, Sarti FM, Lancioni H, Ige AO (2020). Mitochondrial diversity of Yoruba and Fulani chickens: a biodiversity reservoir in Nigeria. *Poultry Science* Jun;99(6):2852-2860. doi: 10.1016/j.psj.2019.12.066. Epub 2020 Mar 27. **[IF2019: 2.659]**.
20. Barbanera Y*, Arcioni F*, Lancioni H*, La Starza R, Cardinali I, Matteucci C, Nofrini V, Roetto A, Piga A, Grammatico P, Caniglia M, Mecucci C, Gorello P (2020). Comprehensive analysis of mitochondrial and nuclear

- DNA variations in patients affected by hemoglobinopathies: a pilot study. *Plos ONE* 15(10): e0240632. doi:10.1371/journal.pone.0240632 *These authors contributed equally to this work. **[IF2019: 2.740]**.
21. Nxumalo N, Ceccobelli S, Cardinali I, Lancioni H, Lasagna E, Kunene NW (2020). Genetic diversity, population structure and ancestral origin of KwaZulu-Natal native chicken ecotypes using microsatellite and mitochondrial DNA markers. *Italian Journal of Animal Science* 19:1, 1277-1290, doi: 10.1080/1828051X.2020.1838350. **[IF2019: 1.805]**.
 22. Ceccobelli S, Ciancaleoni S, Lancioni H, Veronesi F, Albertini E, Rosellini D (2019). Genetic distinctiveness of a Protected Geographic Indication lentil landrace from the Umbria region, Italy, over 20 years. *Genetic Resources and Crop Evolution* <https://doi.org/10.1007/s10722-019-00799-1>. **[IF2019: 1.071]**.
 23. 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, Gienza 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]**.
 24. Bodner, M; Strobl, C; Nagl, S; Xavier, C; Huber, G; Cardinali, I; Lancioni, H; Semino, O; Olivieri, A; Gandini, F; Achilli, A; Torroni, A; Parson, W (2018). Discerning the "identical": unexpected mitogenome diversity behind the most common European mtDNA control region (D-loop) haplotype. *European Journal of Human Genetics* 26: 305-306 S.
 25. Di Lorenzo P*, Lancioni H*, Ceccobelli S, Colli L, Cardinali I, Karsli T, Capodiferro MR, Sahin E, Ferretti L, Ajmone-Marsan P, Sarti FM, Lasagna E, Panella F, Achilli A (2018). Mitochondrial DNA variants of Podolian cattle breeds testify for a dual maternal origin. *PlosOne* 13(2): e0192567. <https://doi.org/10.1371/journal.pone.0192567>. **[IF2016: 2.806]**. *These authors contributed equally to this work.
 26. Ferradini N, Lancioni H, Torricelli R, Russi L, Dalla Ragione I, Cardinali I, Marconi G, Gramaccia M, Concezzi L, Achilli A, Veronesi F, Albertini E (2017). Characterization and Phylogenetic Analysis of Ancient Italian Landraces of Pear. *Frontiers in Plant Science* 8:751 doi: 10.3389/fpls.2017.00751 **[IF2016: 4.298]**
 27. Wang S, Chen N, Capodiferro MR, Zhang T, Lancioni H, Zhang H, Miao Y, Chanthakhoun V, Wanapat M, Yindee M, Zhang Y, Lu H, Dang R, Huang Y, Lan X, Plath M, Chen H, Lenstra JA, Achilli A, Lei C. (2017). Whole Mitogenomes Reveal the History of Swamp Buffalo: Initially Shaped by Glacial Periods and Eventually Modelled by Domestication. *Scientific Reports* 7: 4708 doi: 10.1038/s41598-017-04830-2. **[IF2016: 4.259]**
 28. Di Lorenzo P*, Lancioni H*, Ceccobelli S*, Curcio L, Panella F, Lasagna E (2016). Uniparental genetic systems: a male and a female perspective in the domestic cattle origin and evolution. *Electronic Journal of Biotechnology* 23: 69–78. doi: 10.1016/j.ejbt.2016.07.001. **[IF2016: 1.527]** *These authors contributed equally to this work
 29. Cardinali I*, Lancioni H*, Giontella A, Capodiferro MR, Capomaccio S, Buttazzoni L, Biggio GP, Cherchi R, Albertini E, Olivieri A, Cappelli K, Achilli A, Silvestrelli M (2016). An overview of ten Italian horse breeds through mitochondrial DNA *PLoS ONE* 11(4):e0153004. doi: 10.1371/journal.pone.0153004. eCollection 2016 **[IF2016: 2.806]**. *These authors contributed equally to this work.
 30. Lancioni H[§], Di Lorenzo P, Cardinali I, Ceccobelli S, Capodiferro MR, Fichera A, Grugni V, Semino O, Ferretti L, Gruppetta A, Attard G, Achilli A, Lasagna E (2016) Survey of uniparental genetic markers in the Maltese Cattle breed reveals a significant founder effect, but does not indicate local domestication. *Animal Genetics* 47(2): 267-269 doi: 10.1111/age.12408. [Epub ahead of print] **[IF2016: 1.815]**. [§]Corresponding author.
 31. Colli L*, Lancioni H*, Cardinali I, Olivieri A, Capodiferro MR, Pellicchia M, Rzepus M, Zamani W, Naderi S, Gandini S, Farhad Vahidi SM, Agha S, Randi E, Sardina MT, Portolano B, Rezaei HR, Lymberakis P, Boyer F, Coissac E, Pompanon F, Taberlet P, Ajmone Marsan P and Achilli A (2015) Whole Mitochondrial Genomes Unveil the Impact of Domestication on Goat Matrilineal Variability. *BMC Genomics* 16(1):1115. doi: 10.1186/s12864-015-2342-2 **[IF2015: 3. 867]**. *These authors contributed equally to this work
 32. 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]**.
 33. Olivieri A, Gandini F, Achilli A, Fichera A, Rizzi E, Bonfiglio S, Battaglia V, Brandini S, De Gaetano A, El-Beltagi A, Lancioni H, Agha S, Semino O, Ferretti L, Torroni A (2015). Mitogenomes from Egyptian Cattle Breeds: New Clues on the Origin of Haplogroup Q and the Early Spread of *Bos taurus* from the Near East. *PLoS One*. 10(10):e0141170. doi: 10.1371/journal.pone.0141170. eCollection 2015 **[IF2015: 3.057]**.
 34. Ceccobelli S, Di Lorenzo P, Lancioni H, Monteagudo Ibáñez LV, Tejedor MT, Castellini C, Landi V, Martínez Martínez A, Delgado Bermejo JV, Vega Pla JL, Leon Jurado JM, García N, Attard G, Grimal A, Stojanovic S, Kume K, Panella F, Weigend S, Lasagna E (2015) Genetic diversity and phylogeographic structure of sixteen Mediterranean chicken breeds assessed with microsatellites and mitochondrial DNA. *Livestock Science* 175:27-36 **[IF2015: 1.293]**.

35. 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].
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37. Ceccobelli S, Di Lorenzo P, Lancioni H, Castellini C, Monteagudo Ibáñez LV, Sabbioni A, Maria Sarti F, Weigend S, Lasagna E (2013). Phylogeny, genetic relationships and population structure of five Italian local chicken breeds. *Italian Journal of Animal Science* 12(3):e66 [IF2013: 0.604].
38. Lancioni H, Di Lorenzo P, Ceccobelli S, Perego UA, Miglio A, Landi V, Antognoni MT, Sarti FM, Lasagna E, Achilli A (2013). Phylogenetic relationships of three Italian merino-derived sheep breeds evaluated through a complete mitogenome analysis. *PLoS ONE*, 8(9):e73712 [IF2013: 3.534].
39. 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].
40. 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].
41. 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
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43. Bodner M, Perego UA, Huber G, Fendt L, Röck AW, Zimmermann B, Olivieri A, Gómez-Carballa A, Lancioni H, Angerhofer N, Bobillo MC, Corach D, Woodward SR, Salas A, Achilli A, Torroni A, Bandelt HJ, Parson W (2012). Rapid coastal spread of First Americans: Novel insights from South America's Southern Cone mitochondrial genomes. *Genome Research* 22(5):811-820 [IF2012: 14.397].
44. 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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Hovirag Lancioni, PhD

Hovirag Lancioni