

BIOGRAPHY

P.A. is a postdoctoral researcher at the Department of Cultural Heritage, University of Bologna – Ravenna Campus (Italy), where he supports the activities of the Laboratory of Ancient DNA through bioinformatic analysis. He previously held the same position at the Laboratory of Molecular Anthropology and Center for Genome Biology, Department of Biological, Geological and Environmental Sciences, University of Bologna (Italy). He holds a Bachelor's Degree in Biology (University of Parma, Italy), an International Master's Degree in Bioinformatics (University of Bologna, Italy) and a PhD in Earth, Life and Environmental Sciences (University of Bologna, Italy) during which he specialized in the *in silico* analysis of SNP-chip and whole-genome sequencing data for molecular anthropology, population genomics and human evolution through the application of bioinformatic pipelines for the detection of population structure, biological ancestry and signatures of adaptation to natural selective pressures in ancient and modern humans. Through several collaborations he is now also applying the paradigms of evolutionary population genomics to the field of medicine, to reveal novel perspectives around complex, multifactorial human diseases, with a particular focus on neurodegenerative, psychiatric, cardiac and metabolic disorders.

Since 2017, P.A. has been: co-author of 24 refereed articles and a university-level textbook chapter; member of five national and international scientific associations in the fields of anthropology, evolution, medicine and neurology; teaching tutor for the course "Evolutionary and Ecological Biostatistics" at the Master's Degree in Biodiversity and Evolution (University of Bologna, Italy); co-supervisor of 21 Bachelor's and Master's theses.

NAME

Paolo Abondio

DATE OF BIRTH

September 28, 1988

WORK ADDRESS

Via degli Ariani, 1 - 48121 Ravenna (Italy)

PROFESSIONAL EMAIL

paolo.abondio2@unibo.it

CERTIFIED EMAIL

paolo.abondio@pec.it

OFFICE PHONE NUMBER

+39 051 2094105

WORK EXPERIENCE (current and future position[s] in bold)

October 2023 – December 2023 (public call winner)

Teaching Tutor

Course: Biometria Evoluzionistica ed Ecologica [Evolutionary and Ecological Biostatistics]

Master's Degree in Biodiversity and Evolution

Dept. Biological, Geological and Environmental Sciences - University of Bologna (Italy)

Supervisor: Prof. Alessio Boattini

January 2022 – ongoing

Postdoctoral Research Fellow

“Continuità genomica ed evoluzione bioculturale tra DNA antico e moderno” [Genomic continuity and biocultural evolution between ancient and modern DNA]

Dept. Cultural Heritage - University of Bologna, Ravenna Campus (Italy)

Supervisor: Prof. Donata Luiselli

October 2022 – December 2022

Teaching Tutor

Course: Biometria Evoluzionistica ed Ecologica [Evolutionary and Ecological Biostatistics]

Master's Degree in Biodiversity and Evolution

Dept. Biological, Geological and Environmental Sciences - University of Bologna (Italy)

Supervisor: Prof. Alessio Boattini

January 2021 - December 2021

Research Fellow

“Analisi bioinformatica di dati -omici in popolazioni umane: variabilità ed espressione di marcatori associati al cervello” [Bioinformatic analysis of -omic data in human populations: variability and expression of brain-associated markers]

Dept. Biological, Geological and Environmental Sciences - University of Bologna (Italy)

Supervisor: Prof. Alessio Boattini

February 2020 - May 2021

External Collaborator

Aim: reviewing and refining a single-cell multiomic pipeline to disentangle T cell heterogeneity

Italian Institute of Genomic Medicine (IIGM) - Candiolo, Torino (Italy)

Local supervisor: Dr. Luigia Pace

QUALIFICATIONS, EDUCATION and TRAINING

May 2021

PhD in Earth, Life and Environmental Sciences

“From single loci to gene networks: adaptation genomics of complex traits in human populations”

Alma Mater Studiorum - University of Bologna (Italy)

Supervisor: Prof. Donata Luiselli

September 2017

International Master's Degree in Bioinformatics

“Dissecting the Italian genomic landscape via whole genomes sequencing”

Alma Mater Studiorum - University of Bologna (Italy)

Supervisor: Prof. Marco Sazzini; co-supervisor: Guido Alberto Gnecci-Ruscone

April 2015

Bachelor's Degree in Biological Sciences

“Basi sperimentali per un nuovo modello allosterico per l’emoglobina umana” [Experimental basis for a new allosteric model for human haemoglobin]

University of Parma (Italy)

Supervisor: Prof. Stefania Abbruzzetti

MEMBERSHIPS

July 2023 – ongoing

Scienze Neurologiche Ospedaliere (SNO) [Society of Hospital-based Neurological Sciences, SNO]

June 2023 – ongoing

Associazione Autonoma Aderente alla SIN per le Demenze [Autonomous Association Adhering to the Italian Neurological Society (SIN) for Dementias] (SINdem)

September 2022 – ongoing

Associazione Antropologica Italiana [Italian Anthropological Association] (AAI)

June 2021 – ongoing

International Society for Evolution, Medicine and Public Health (ISEMPH)

January 2021 – ongoing

Society for Molecular Biology and Evolution (SMBE)

AWARDS and ACHIEVEMENTS

23-25 February 2023

“Best oral communication” award

Event: “SINdem4Juniors - 10th Winter Seminar on Dementia and Neurodegenerative Disorders” - Brixen/Bressanone, South Tyrol (Italy)

November 2017 - December 2020

3-year doctoral scholarship - University of Bologna (Italy)

February 9-20, 2019

Full scholarship awarded by Fondazione Centro Studi Enel

Event: “2nd Siena Summer School on Sustainable Development” - University of Siena (Italy)

October 2018 - January 2019

“Marco Polo” travel grant for international scientific research - University of Bologna (Italy)

Host institution: UCL Genetics Institute - University College of London (UK)

RESEARCH and PUBLICATIONS

Book chapters

Sazzini M, Abondio P. *Effetti della selezione naturale sulla biodiversità umana* [Effects of natural selection on human biodiversity]. In “Manuale di antropologia. Evoluzione e biodiversità umana” a cura di Luca Sineo, Jacopo Moggi Cecchi (Torino: UTET Università, 2022) pp. 417-424.

Refereed articles (*PA is first or co-first author; #PA is corresponding author)

1. Bruno F*, Abondio P*#, Bruno R, Ceraudo L, Papparazzo E, Citrigno L, Luiselli D, Bruni AC, Passarino G, Colao R, Maletta R, Montesanto A. *Alzheimer's disease as a viral disease: Revisiting the infectious*

hypothesis. **Ageing Res Rev**. 2023 Sep 12;91:102068. doi: 10.1016/j.arr.2023.102068. Epub ahead of print. PMID: 37704050.

2. Fontani F, Boano R, Cinti A, Demarchi B, Sandron S, Rampelli S, Candela M, Traversari M, Latorre A, Iacovera R, Abondio P, Sarno S, Mackie M, Collins M, Radini A, Milani C, Petrella E, Giampalma E, Minelli A, Larocca F, Cilli E, Luiselli D. *Bioarchaeological and paleogenomic profiling of the unusual Neolithic burial from Grotta di Pietra Sant'Angelo (Calabria, Italy)*. **Sci Rep**. 2023 Jul 24;13(1):11978. doi: 10.1038/s41598-023-39250-y. PMID: 37488251; PMCID: PMC10366206.
3. Beccacece L*, Abondio P**, Giorgetti A, Bini C, Pelletti G, Luiselli D, Pelotti S. *A Genome-Wide Analysis of a Sudden Cardiac Death Cohort: Identifying Novel Target Variants in the Era of Molecular Autopsy*. **Genes (Basel)**. 2023 Jun 15;14(6):1265. doi: 10.3390/genes14061265. PMID: 37372445; PMCID: PMC10298681.
4. Abondio P**, Cilli E, Luiselli D. *Human Pangenomics: Promises and Challenges of a Distributed Genomic Reference*. **Life (Basel)**. 2023 Jun 9;13(6):1360. doi: 10.3390/life13061360. PMID: 37374141; PMCID: PMC10304804.
5. Modenini G*, Abondio P*, Guffanti G, Boattini A, Macciardi F. *Evolutionarily recent retrotransposons contribute to schizophrenia*. **Transl Psychiatry**. 2023 May 27;13(1):181. doi: 10.1038/s41398-023-02472-9. PMID: 37244930; PMCID: PMC10224989.
6. Bruno F, Abondio P#, Laganà V, Colao R, Curcio SM, Frangipane F, Puccio G, Di Lorenzo R, Bruni AC, Maletta R. *Using the Theory of Planned Behavior and Past Behavior to Explain the Intention to Receive a Seasonal Influenza Vaccine among Family Caregivers of People with Dementia*. **International Journal of Translational Medicine**. 2023; 3(2):246-254. <https://doi.org/10.3390/ijtm3020017>
7. Abondio P**, Bruno F, Luiselli D. *Apolipoprotein E (APOE) Haplotypes in Healthy Subjects from Worldwide Macroareas: A Population Genetics Perspective for Cardiovascular Disease, Neurodegeneration, and Dementia*. **Curr Issues Mol Biol**. 2023 Mar 31;45(4):2817-2831. doi: 10.3390/cimb45040184. PMID: 37185708; PMCID: PMC10137191.
8. Beccacece L, Abondio P#, Bini C, Pelotti S, Luiselli D. *The Link between Prostanoids and Cardiovascular Diseases*. **Int J Mol Sci**. 2023 Feb 20;24(4):4193. doi: 10.3390/ijms24044193. PMID: 36835616.
9. Bruno F, Abondio P#, Montesanto A, Luiselli D, Bruni AC, Maletta R. *The Nerve Growth Factor Receptor (NGFR/p75NTR): A Major Player in Alzheimer's Disease*. **Int J Mol Sci**. 2023 Feb 6;24(4):3200. doi: 10.3390/ijms24043200. PMID: 36834612.
10. Abondio P**, Bruno F, Bruni AC, Luiselli D. *Rare Amyloid Precursor Protein Point Mutations Recapitulate Worldwide Migration and Admixture in Healthy Individuals: Implications for the Study of Neurodegeneration*. **Int J Mol Sci**. 2022 Dec 14;23(24):15871. doi: 10.3390/ijms232415871. PMID: 36555510; PMCID: PMC9781461.
11. Modenini G, Abondio P, Boattini A. *The coevolution between APOBEC3 and retrotransposons in primates*. **Mob DNA**. 2022;13(1):27. 2022 Nov 29. doi:10.1186/s13100-022-00283-1. PMID: 36443831.
12. Abondio P**, Cilli E, Luiselli D. *Inferring Signatures of Positive Selection in Whole-Genome Sequencing Data: An Overview of Haplotype-Based Methods*. **Genes (Basel)**. 2022 May 22;13(5):926. doi: 10.3390/genes13050926. PMID: 35627311; PMCID: PMC9141518.

13. Abondio P*, De Intinis C, da Silva Gonçalves Vianez Júnior JL, Pace L. *Single Cell Multiomic Approaches to Disentangle T Cell Heterogeneity*. **Immunol Lett**. 2022 Jun;246:37-51. doi: 10.1016/j.imlet.2022.04.008. Epub 2022 May 13. PMID: 35577000.
14. De Giovanni A, Abondio P, Frapiccini E, Luiselli D, Marini M. *Meta-Analysis of a New Georeferenced Database on Polycyclic Aromatic Hydrocarbons in Western and Central Mediterranean Seafood*. **Applied Sciences**. 2022; 12(6):2776. <https://doi.org/10.3390/app12062776>
15. Abondio P**, Sarno S*, Giuliani C, Laganà V, Maletta R, Bernardi L, Bruno F, Colao R, Puccio G, Frangipane F, Borroni B, Van Broeckhoven C, Luiselli D, Bruni A. *Amyloid Precursor Protein A713T Mutation in Calabrian Patients with Alzheimer's Disease: A Population Genomics Approach to Estimate Inheritance from a Common Ancestor*. **Biomedicines**. 2021 Dec 23;10(1):20. doi: 10.3390/biomedicines10010020. PMID: 35052700; PMCID: PMC8773445.
16. Ojeda-Granados C, Abondio P, Setti A, Sarno S, Gneccchi-Ruscione GA, González-Orozco E, De Fanti S, Jiménez-Kaufmann A, Rangel-Villalobos H, Moreno-Estrada A, Sazzini M. *Dietary, Cultural and Pathogens-Related Selective Pressures Shaped Differential Adaptive Evolution Among Native Mexican Populations*. **Mol Biol Evol**. 2021 Oct 1:msab290. doi: 10.1093/molbev/msab290. PMID: 34597392.
17. Beccacece L*, Abondio P**, Cilli E, Restani D, Luiselli D. *Human Genomics and the Biocultural Origin of Music*. **Int J Mol Sci**. 2021 May 20;22(10):5397. doi: 10.3390/ijms22105397. PMID: 34065521; PMCID: PMC8160972.
18. Fontani F, Cilli E, Arena F, Sarno S, Modi A, De Fanti S, Andrews AJ, Latorre A, Abondio P, Larocca F, Lari M, Caramelli D, Gualdi-Russo E, Luiselli D. *First Bronze Age Human Mitogenomes from Calabria (Grotta Della Monaca, Southern Italy)*. **Genes (Basel)**. 2021 Apr 25;12(5):636. doi: 10.3390/genes12050636. PMID: 33922908; PMCID: PMC8146030.
19. Sarno S*, Petrilli R*, Abondio P*, De Giovanni A, Boattini A, Sazzini M, De Fanti S, Cilli E, Ciani G, Gentilini D, Pettener D, Romeo G, Giuliani C, Luiselli D. *Genetic history of Calabrian Greeks reveals ancient events and long term isolation in the Aspromonte area of Southern Italy*. **Sci Rep**. 2021 Feb 4;11(1):3045. doi: 10.1038/s41598-021-82591-9. PMID: 33542324; PMCID: PMC7862261.
20. Landini A, Yu S, Gneccchi-Ruscione GA, Abondio P, Ojeda-Granados C, Sarno S, De Fanti S, Gentilini D, Di Blasio AM, Jin H, Nguyen TT, Romeo G, Prata C, Bortolini E, Luiselli D, Pettener D, Sazzini M. *Genomic adaptations to cereal-based diets contribute to mitigate metabolic risk in some human populations of East Asian ancestry*. **Evol Appl**. 2020 Sep 8;14(2):297-313. doi: 10.1111/eva.13090. PMID: 33664777; PMCID: PMC7896717.
21. Sazzini M*, Abondio P*, Sarno S*, Gneccchi-Ruscione GA*, Ragno M, Giuliani C, De Fanti S, Ojeda-Granados C, Boattini A, Marquis J, Valsesia A, Carayol J, Raymond F, Pirazzini C, Marasco E, Ferrarini A, Xumerle L, Collino S, Mari D, Arosio B, Monti D, Passarino G, D'Aquila P, Pettener D, Luiselli D, Castellani G, Delledonne M, Descombes P, Franceschi C, Garagnani P. *Genomic history of the Italian population recapitulates key evolutionary dynamics of both Continental and Southern Europeans*. **BMC Biol**. 2020 May 22;18(1):51. doi: 10.1186/s12915-020-00778-4. PMID: 32438927; PMCID: PMC7243322.
22. Abondio P**, Sazzini M, Garagnani P, Boattini A, Monti D, Franceschi C, Luiselli D, Giuliani C. *The Genetic Variability of APOE in Different Human Populations and Its Implications for Longevity*. **Genes (Basel)**. 2019 Mar 15;10(3):222. doi: 10.3390/genes10030222. PMID: 30884759; PMCID: PMC6471373.
23. Gneccchi-Ruscione GA, Abondio P, De Fanti S, Sarno S, Sherpa MG, Sherpa PT, Marinelli G, Natali L, Di Marcello M, Peluzzi D, Luiselli D, Pettener D, Sazzini M. *Evidence of Polygenic Adaptation to High*

Altitude from Tibetan and Sherpa Genomes. **Genome Biol Evol**. 2018 Nov 1;10(11):2919-2930. doi: 10.1093/gbe/evy233. PMID: 30335146; PMCID: PMC6239493.

24. Quagliariello A, De Fanti S, Giuliani C, Abondio P, Serventi P, Sarno S, Sazzini M, Luiselli D. *Multiple selective events at the PRDM16 functional pathway shaped adaptation of western European populations to different climate conditions*. **J Anthropol Sci**. 2017 Dec 30;95:235-247. doi: 10.4436/JASS.95011. Epub 2017 Jul 10. PMID: 28696940.

Other featured media

2021

"Paolo Abondio, Research Fellow, Molecular Anthropology & Population Genomics".

Time Scavengers blog. <https://timescavengers.blog/2021/12/08/paolo-abondio-research-fellow-molecular-anthropology-population-genomics/>

TEACHING

Teaching activities for the following academic course(s) at the University of Bologna:

"Evoluzione e Biodiversità Umana - Modulo 2" [Human Evolution and Biodiversity - Module 2] – Master's degree in Biodiversity and Evolution A.Y. 2021/2022, held by Prof. Donata Luiselli. Topics: *the whole-genome revolution; databases and projects around human genome variability; signatures of natural selection*.

"Biologia Umana" [Human Biology] – Bachelor's degree in Biological Sciences A.Y. 2018/2019, held by Prof. Donata Luiselli. Topics: *mutation and recombination events at individual and population level; natural selection and its impact on modern human populations*.

"Biologia delle Popolazioni Umane" [Human Population Biology] – Master's degree in Biodiversity and Evolution A.Y. 2018/2019, held by Prof. Marco Sazzini. Topics: *practicals on human population data analysis using R software*.

"Antropologia Molecolare Applicata" [Applied Molecular Anthropology] – Master's degree in Health Biology A.Y. 2018/2019, held by Prof. Donata Luiselli. Topics: *microevolutionary forces acting at population level; natural selection; neutrality tests; instances of positive selection in current human populations*.

"Molecular Anthropology and Human Biodiversity" – Master's degree in Bioinformatics, A.Y. 2017/2018, held by Prof. Donata Luiselli. Topics: *mutation and recombination at the individual and population level; natural selection; neutrality tests*.

SUPERVISION and CO-SUPERVISION

Bachelor's and Master's degree

1. *"Stima della distanza genetica e delle relazioni evolutive tra aplotipi a partire da dati genomici di popolazioni umane attuali e arcaiche"* [Estimating genetic distance and evolutionary relations among haplotypes from genomic data of extant and archaic human populations] (candidate: Eugenio Boccaccini, Bachelor's Degree in Biological Sciences; supervisor: Prof. Marco Sazzini; A.Y. 2022/2023)
2. *"Polymorphic transposable element insertions provide new insights on North-Eastern Italian isolates' genetic variability"* (candidate: Giacomo Mercuri, Master's Degree in Biodiversity and Evolution; supervisor: Prof. Alessio Boattini; co-supervisor: Dr. Giorgia Modenini; A.Y. 2022/2023)

3. *"Paleopatologia e paleogenomica dell'iperostosi scheletrica idiopatica diffusa (DISH): il probabile caso di un etrusco da Sasso Marconi (BO)"* [Paleopathology and paleogenomics of diffused idiopathic skeletal hyperostosis (DISH): the probable case of an Etruscan individual from Sasso Marconi (Bologna)] (candidate: Ludovica Sasso, Master's Degree in History, Preservation and Enhancement of Artistic and Archaeological Heritage and Landscape; supervisor: Prof. Elisabetta Cilli; co-supervisor: Prof. Giorgio Gruppioni; A.Y. 2021/2022)
4. *"Haplotype-based inference of admixture events from the genomes of Silk Road populations"* (candidate: Beatrice Zennaro, Master's Degree in Biodiversity and Evolution; supervisor: Prof. Marco Sazzini; co-supervisor: Dr. Stefania Sarno; A.Y. 2021/2022)
5. *"Admixture between modern and archaic humans: biological impact on the evolution of the Italian population"* (candidate: Giacomo Villani, Master's Degree in Biodiversity and Evolution; supervisor: Prof. Marco Sazzini; A.Y. 2021/2022)
6. *"Identificazione di eventi di flusso genico tra popolazioni europee e asiatiche lungo la via della seta: un focus sulla popolazione italiana"* [Identifying gene flow events between European and Asian populations along the Silk Road: a focus on the Italian population] (candidate: Erika Beccalli, Master's Degree in Biodiversity and Evolution; supervisor: Prof. Marco Sazzini; co-supervisor: Dr. Stefania Sarno; A.Y. 2021/2022)
7. *"Exploring populations' haplotype structure from dense genomic data"* (candidate: Anastasia Santo, Bachelor's Degree in Biological Sciences; supervisor: Prof. Marco Sazzini; A.Y. 2021/2022)
8. *"Confronto tra regioni del genoma ad evoluzione adattativa identificate utilizzando sequenze di genomi completi o dati genome-wide imputati"* [Comparing genomic regions under adaptive evolution identified through whole-genome sequencing or imputed genome-wide data] (candidate: Federico Feruzzi, Bachelor's Degree in Biological Sciences; supervisor: Prof. Marco Sazzini; A.Y. 2021/2022)
9. *"Transposable elements variability in ancient and modern human samples"* (candidate: Francesco Magni, Master's Degree in Biodiversity and Evolution; supervisor: Prof. Alessio Boattini; co-supervisor: Giorgia Modenini; A.Y. 2021/2022)
10. *"Expanding the detection of Denisovan adaptive introgression in Himalayan populations"* (candidate: Giulia Ferraretti, Master's Degree in Biodiversity and Evolution; supervisor: Prof. Marco Sazzini; A.Y. 2020/2021)
11. *"Setting up a network-based method for the detection of archaic introgression"* (candidate: Martina Bartolini, Master's Degree in Biodiversity and Evolution; supervisor: Prof. Marco Sazzini; A.Y. 2020/2021)
12. *"Analisi della variabilità genomica di FGF21 in popolazioni umane antiche e moderne"* [Analysis of the genomic variability of FGF21 in modern and ancient human populations] (candidate: Simone Rimedio, Master's Degree in Health Biology; supervisor: Prof. Donata Luiselli; co-supervisor: Dr. Cristina Giuliani; A.Y. 2020/2021)
13. *"Identifying genomic signatures of natural selection using human whole-genome sequences"* (candidate: Gloria Moretti, Bachelor's Degree in Biological Sciences; supervisor: Prof. Marco Sazzini; A.Y. 2019/2020)
14. *"Validation of candidate genes that underwent adaptive introgression"* (candidate: Marta Alberti, Bachelor's Degree in Biological Sciences; supervisor: Prof. Marco Sazzini; A.Y. 2019/2020)
15. *"Testing for Neanderthal adaptive introgression in the Italians' genomes"* (candidate: Valentino Sanna, Master's Degree in Biodiversity and Evolution; supervisor: Prof. Marco Sazzini; A.Y. 2019/2020)

16. *“Population genomics perspectives in neurodegeneration: an Italian case/control study”* (candidate: Natalia De Oliveira Rosa, Master’s Degree in Bioinformatics; supervisor: Prof. Donata Luiselli; A.Y. 2019/2020)
17. *“Music ability and rhythm perception: a population genomic analysis in humans and great apes”* (candidate: Livia Beccacece, Master’s Degree in Biodiversity and Evolution; supervisor: Prof. Donata Luiselli; A.Y. 2019/2020)
18. *“Inferring archaic introgression using modern and ancient whole genome sequencing data”* (candidate: Armin Shahpari, Master’s Degree in Bioinformatics; supervisor: Prof. Marco Sazzini; A.Y. 2018/2019)
19. *“New evidence of adaptive introgression from Denisovan to Tibetan and Sherpa genomes”* (candidate: Niccolò Castellani, Master’s Degree in Biodiversity and Evolution; supervisor: Prof. Marco Sazzini; co-supervisor: Dr. Stefania Sarno; A.Y. 2018/2019)
20. *“Investigating fatty acid gene networks in modern human populations”* (candidate: Sowjanya Dachapally, Master’s Degree in Bioinformatics; supervisor: Prof. Donata Luiselli; A.Y. 2017/2018)
21. *“Genomic signatures of adaptive evolution in the Italian population”* (candidate: Matteo Ragno, Master’s Degree in Biodiversity and Evolution; supervisor: Prof. Marco Sazzini; A.Y. 2017/2018)

CONFERENCE ADDRESSES, PRESENTATIONS and POSTERS (programmed participation)**

Conference presentations

2023

“L’importanza del contesto genetico popolazionistico nel paziente con neurodegenerazione e relativa demenza: medicina evolutiva tra precision medicine e global health” [The importance of the population genetics context in the patient with neurodegeneration and associated dementia: evolutionary medicine from precision medicine to global health].

Venue: 62nd SNO National Congress; September 27-30, Firenze (Italy)***

“Exploring the genetic variability, haplotypic relationships and geographic distribution of the TOMM40-APOE-APOC1 locus in ancient and modern humans”.

Venue: 25th Conference of the Italian Anthropological Association (AAI); September 5-8, Turin (Italy)

“Amyloid Precursor Protein mutations retrace recent human migration and admixture events: opportunities for the study of neurodegeneration”.

Venue: SINDem4Juniors - 10th Winter Seminar on Dementia and Neurodegenerative Disorders; February 23-25, Brixen/Bressanone, South Tyrol (Italy)

2022

“Non-LTR retrotransposons show signatures of positive selection in the human dorsolateral prefrontal cortex”.

Venue: The Second Conference on Transposable Elements in Human Brain Evolution and Diseases; December 7 [virtual]

“The worldwide genetics of AD-associated APP point mutations in healthy individuals: a population genomics approach”.

Venue: XVII SINDem National Conference; October 15-17, Firenze (Italy)

2020

Paolo Abondio

“Ancient mtDNA suggests population dynamics of wild wolves in the Italian Peninsula”

Venue: Conservation Paleobiology Symposium; February 2-4, Bologna (Italy)

2019

“Polimorfismi e dieta: biodiversità umana, nutrizione, salute”

Venue: Conference of ACSIAN cooperativa sociale onlus; October 19, Pisa (Italy)

Conference organization and panels

2023

May 8-23: co-chair of the session *“Conservation Palaeobiology - looking at the past, interpreting the present, planning for the future”* (with Jonathan D. Cybulski, Julia De Entrambasaguas-Laguna, Erin Dillon, Niklas Hohmann, Yuanyuan Hong, Matias Ritter and Isaiah Smith)

Venue: 4th Palaeontological Virtual Congress [virtual]

2021

December 1-15: co-chair of the session *“Conservation Palaeobiology - Bridging Past and Future”* (with Danijela Dimitrijevic and Niklas Hohmann)

Venue: 3rd Palaeontological Virtual Congress [virtual]

Posters

2023

Paolo Abondio, Francesco Bruno, Amalia C. Bruni, Donata Luiselli. *“Genetic, haplotypic and geographic variability of the TOMM40-APOE-APOC1 locus in ancient and modern humans: a sex-based perspective”*.

Venue: XVIII SINDem National Conference; November 22-25, Firenze (Italy)***

Paolo Abondio, Francesco Bruno, Amalia C. Bruni, Donata Luiselli. *“Apolipoprotein E (APOE) haplotypes in healthy subjects: a worldwide population genetics and sex-based perspective for ancestry-informed gender medicine”*.

Venue: 53rd Congress of the Italian Society of Neurology (SIN); October 21-24, Napoli (Italy)***

Paolo Abondio, Francesco Bruno, Donata Luiselli. *“Apolipoprotein E (APOE) haplotypes in healthy subjects: a population genetics perspective”*

Venue: SMBE 2023; July 23-27, Ferrara (IT)

2022

Giorgia Modenini, **Paolo Abondio**, Melanie Oakes, Valentina Ciobanu, Maria Giulia Bacalini, Guia Guffanti, Alessio Boattini, Fabio Macchiardi. *“Non-LTR retrotransposons show signatures of positive selection in the human dorsolateral prefrontal cortex”*.

Venue: 24th Conference of the Italian Anthropological Association; September 7-10, Chieti (Italy)

2021

Paolo Abondio, Stefania Sarno, Cristina Giuliani, ..., Donata Luiselli, Amalia Bruni. *“APP A713T mutation in Calabrian patients with Alzheimer's disease: a population genomics approach to estimate inheritance from a common ancestor”*.

Venue: XVI SINDem National Conference; November 25-27, Firenze (Italy)

2019

Paolo Abondio, Andrea De Giovanni, Cristina Giuliani, Stefania Sarno, Marco Sazzini, Donata Luiselli. *“Investigating Fatty Acid Gene Networks in Human Populations”*.

Venue: 23rd Conference of the Italian Anthropological Association; September 6-9, Padova (Italy)

Paolo Abondio, Andrea De Giovanni, Stefania Sarno, Cristina Giuliani, Donata Luiselli. *“Genomic variability and neurological diseases: a focus on Southern Italy”*.

Venue: SMBE 2019; July 21-25, Manchester (UK)

2018

Paolo Abondio, Cristina Giuliani, Guido A. Gnechchi Ruscone, ..., Marco Sazzini, Donata Luiselli. *“Inferring signatures of natural selection at fatty acids gene networks in ancient and modern populations”*.

Venue: “Population genomics: background and tools” - Elixir-IIB Training Programme; April 21-27, Napoli (Italy).

2017

Guido A. Gnechchi Ruscone, **Paolo Abondio**, ..., Marco Sazzini. *“Complex demography shaped the genomic landscape of Himalayan populations in addition to altitude-related selective pressures”*.

Venue: 7th Congress of the Italian Society of Evolutionary Biology (SIBE); August 28-31, Roma (Italy)

CONFERENCE PARTICIPATION and PROFESSIONAL DEVELOPMENT (*)programmed participation)**

2023

- November 22-25: *“XVIII Convegno Nazionale SINDem”* [18th SINDem National Congress] - Firenze (Italy)***
- October 21-24: *“53° Congresso della Società Italiana di Neurologia (SIN)”* [53rd Congress of the Italian Society of Neurology (SIN)] – Napoli (Italy)***
- September 27-30: *“62° Congresso Nazionale SNO”* [62nd SNO National Congress] - Firenze (Italy)***
- September 5-8: *“Essere/i umani”* [Being human beings] – 25th Conference of the Italian Anthropological Association (AAI); Turin (Italy)
- July 23-27: *“SMBE 2023”* - Congress of the Society for Molecular Biology and Evolution - Ferrara (IT)
- May 8-22: *4th Palaeontological Virtual Congress* [virtual]
- February 23-25: *SINDem4Juniors - 10th Winter Seminar on Dementia and Neurodegenerative Disorders*; Brixen/Bressanone, South Tyrol (Italy)

2022

- December 7: *“The Second Conference on Transposable Elements in Human Brain Evolution and Diseases”* [virtual]
- October 13-15: *“XVII Convegno Nazionale SINDem”* [17th SINDem National Congress] - Firenze (Italy)
- September 22-24: *“9.baby Symposium 2022”* – Bologna (Italy) [hybrid - online]
- September 12-15: *“Bridges between disciplines: gender in STEM and social sciences”* - Gandia, Valencia (Spain) [hybrid - online]
- September 7-10: *“Il prossimo uomo: Storia naturale di geni, forme e funzioni fra passato e futuro dell’umanità”* [The next human: Natural history of genes, forms, and functions between the past and future of humanity] - 24th Conference of the Italian Anthropological Association (AAI); Chieti (Italy)

2021

- December 8-9: *9th Pan Arab Human Genetics Conference* - Center for Arab Genomic Studies [virtual]
- December 3: *1st Conference on Transposable Elements in Human Brain Evolution and Diseases* - University of Bologna [virtual]
- December 1-15: *3rd Palaeontological Virtual Congress* [virtual]
- November 25-27: *“XVI Convegno Nazionale SINDem”* [16th SINDem National Congress] - Firenze (Italy)
- November 2-4: *“Human Evolution - From Fossils to Ancient and Modern Genomes”* - Wellcome Connecting Science [virtual]
- October 7-8: *“5th Uppsala Transposon Symposium - interactions and evolution at the transposable element and host interface”* [virtual]
- September 22-24: *2021 meeting of the European Society for the study of Human Evolution (ESHE)* [virtual]

- September 16: *"The Evolutionary Origins of Human Technology"* - CSIC Brussels Office [virtual]
- September 13-15: *"The 9th World Sustainability Forum"* - MDPI Conference; Basel (Switzerland) [virtual]
- September 6-9: *"2nd Crossing the Paleontological-Ecological Gap"* - hosted by the Museum of Natural History; Berlin (Germany) [virtual]
- July 14-16: *"ISEMPH 2021"* - 2021 meeting of the International Society for Evolution, Medicine and Public Health [virtual]
- July 3-8: *"SMBEv2021"* - 2021 meeting of the Society for Molecular Biology and Evolution [virtual]
- May 24: *"Advances in the Neurobiology of Mental Illness"* - New York Academy of Sciences [virtual]

2020

- October 13-15: *"Gender Roles and their Impact in Academia"* - EMBO/EMBL/HHMI Conference [virtual]
- September 15-17: *"MDPI 8th World Sustainability Forum"* - MDPI Conference; Basel (Switzerland) [virtual]
- July 1: *"MDPI 1st Webinar on Biomolecules: Molecular Aspects of Cellular Dysfunction in Alzheimer's Disease"* - MDPI Special Issue Webinars [virtual]
- June 26-27: *"RECOMB-Seq: 10th Satellite Workshop on massive parallel sequencing"* - University of Padova; Padova (Italy) [virtual]
- June 25-26: *"RECOMB-Genetics: 8th Satellite Workshop on computational methods in genetics"* - University of Padova; Padova (Italy) [virtual]
- June 22-25: *"RECOMB2020: 24th International conference on Research in Computational Molecular Biology"* - University of Padova; Padova (Italy) [virtual]
- June 18-19: *"RECOMB-CCB: RECOMB Satellite Workshop on Computational Cancer Biology"* - University of Padova; Padova (Italy) [virtual]
- February 3-4: *"Conservation Paleobiology Symposium"* - University of Bologna; Bologna (Italy)

2019

- October 19: *"Il Microbiota umano: I principali fattori che ne influenzano l'equilibrio"* - conference of ACSIAN cooperativa sociale onlus; Pisa (Italy)
- September 9-20: *"2nd Siena Summer School on Sustainable Development"* – Santa Chiara Lab, University of Siena; Siena (Italy)
- September 4-6: *"Anthropology: what are the next questions?"* - 23rd Conference of the Italian Anthropological Association; Padova (Italy)
- July 21-25: *"SMBE 2019"* - Congress of the Society for Molecular Biology and Evolution; Manchester (UK)
- July 1-7: *"Genome Assembly and Annotation"* - Elixir-IIB Training Program; Milano (Italy)
- April 4-5: *"PhD Workshop on sustainable development research – an interdisciplinary chance or challenge?"* - 4th UAS Spring Campus Conference; Berlin (Germany)
- March 31 - April 3: *"Reconstructing the human past - Using ancient and modern genomics"* - EMBO-EMBL Symposia; Heidelberg (Germany)

2018

- May 7-11: *"Paleogenomics Workshop"* - Physalia Courses; Berlin (Germany)
- April 21-27: *"Population genomics: background and tools"* - Elixir-IIB Training Programme; Napoli (Italy)
- March 19-22: *"MARES Transferable Skills Training: linguistic and communicative best practices for academic output"* - 7th MARES annual meeting; Bologna (Italy)
- February 12-16: *"19th Bologna Winter School: Big Data and Bioinformatics"* - Bologna Biocomputing Group, University of Bologna and Italian Society of Biochemistry and Molecular Biology (SIB); Bologna (Italy)

2017

- August 28-31: *7th Congress of the Italian Society of Evolutionary Biology (SIBE)*; Roma (Italy)