

Andrea Piotti

Curriculum vitae et studiorum

Education & Research

November 2017– ongoing: Researcher, Institute of Biosciences and BioResources, National Research Council, IBBR-CNR;

October 2018: Habilitation as Associate Professor in Italian Universities for Agricultural Chemistry, Agricultural Genetics and Pedology (07/E1);

August 2017: Habilitation as Associate Professor in Italian Universities for Arboriculture and Forest Systems (07/B2);

May 2012 – October 2017: Temporary Research Associate, Institute of Biosciences and BioResources, National Research Council, IBBR-CNR, Florence, Vendramin Lab;

Nov 2010 – Nov 2011: Temporary Research Associate, Department of Environmental Sciences, Leonardi Lab;

Jul 2010 – Sep 2010: Research fellowship, Department of Exploitation and Protection of the Agricultural and Forestry Resources (DI.VA.P.R.A.), University of Turin;

Jun 2009 – Nov 2009: Research fellowship, Department of Environmental Sciences, University of Parma;

Jul 2009: Research fellowship, Department of Biology, University of Ferrara;

Apr 2007 – Apr 2009: Postdoctoral fellowship, Department of Environmental Sciences, University of Parma;

Dec 2003 - Dec 2006: PhD in Ecology, Department of Environmental Sciences, University of Parma, Menozzi Lab. Dissertation on “The study of gene flow in Norway spruce (*Picea abies*, Karst.): genetic aspects of colonization above the treeline”;

Oct 2003 - Dec 2003: Research fellowship, Department of Environmental Sciences, University of Parma, “Genetic data analysis in *Fagus sylvatica*”;

Jul 2003 – Sep 2003: Research stage concerning genetic and eco-physiological data analysis, Department of Environmental Sciences, University of Parma;

Jul 2003: B.S. in Biological Sciences. Dissertation on “Sexual selection in the slave-making ant *Polyergus rufescens*: morphometry and male reproductive success”.

Main research interests

- Gene flow and dispersal in plants.
- Conservation genetics of Mediterranean forests.
- Marginal/fragmented populations' evolutionary dynamics.
- Adaptive dynamics in forest trees' plantations

Publications

- 2021**
44. Postolache D, Oddou-Muratorio S, Vajana E, Bagnoli F, Guichoux E, Hampe A, Le Provost G, Lesur-Kupin I, Popescu F, Scotti I, **Piotti A**, Vendramin GG (2021) Genetic signatures of divergent selection in European beech (*Fagus sylvatica* L.) are associated with the variation in temperature and precipitation across its distribution range. *Molecular Ecology* 30:5029-5047
 43. Delnevo N, **Piotti A**, Carbognani M, van Etten EJ, Stock WD, Field DL, Byrne M (2021) Genetic and ecological consequences of recent habitat fragmentation of a narrow endemic plant species within an urban context. *Biodiversity and Conservation* 30:3457-3478
 42. Major EI, Höhn M, Avanzi C, Fady B, Heer K, Liepelt S, Opgenoorth L, **Piotti A**, Popescu F, Postolache D, Vendramin GG, Csilléry K (2021) Fine-scale spatial genetic structure across the species range reflects recent colonization of high elevation habitats in silver fir (*Abies alba* Mill.). *Molecular Ecology* 30:5247-5265
 41. Olsson S, Lorenzo Z, Zabal-Aguirre M, **Piotti A**, Vendramin GG, González-Martínez SC, Grivet D (2021) Evolutionary history of the Mediterranean *Pinus halepensis-brutia* species complex using gene-resequencing and transcriptomic approaches. *Plant Molecular Biology*, 106:367-380
 40. Opgenoorth L, Dauphin B, Benavides R, Heer K, Alizoti P, Martínez-Sancho E, ... Cavers S (2021) The GenTree Platform: growth traits and tree-level environmental data in twelve European forest tree species. *GigaScience*, 10:giab010
 39. Benavides R, Carvalho B, Bastias CC, Lopez-Quiroga D, Mas A, Cavers S, ... Valladares F (2021) The GenTree Leaf Collection: inter- and intraspecific leaf variation in seven forest tree species in Europe. *Global Ecology and Biogeography*, 30:590-597

2020

 38. Piermattei A, von Arx G, Avanzi C, Fonti P, Gärtner H, **Piotti A**, Urbinati C, Vendramin GG, Büntgen U, Crivellaro A (2020) Functional relationships of wood anatomical traits in Norway spruce. *Frontiers in Plant Science*, 11:683
 37. Avanzi C, Heer K, Büntgen U, Labriola M, Leonardi S, Opgenoorth L, Piermattei A, Urbinati C, Vendramin GG, **Piotti A** (2020). Individual reproductive success in Norway spruce natural populations depends on growth rate, age and sensitivity to temperature. *Heredity*, 124:685-698
 36. Martínez-Sancho E, Mateju L, Morganti S, Grefen C, Carvalho B, Dauphin B, ... Fonti P (2020) The GenTree Dendroecological Collection: tree-ring and wood density data from seven tree species across Europe. *Scientific Data*, 7:1
 35. Mataruga M[§], **Piotti A**[§], Daničić V, Cvjetković B, Fussi B, Konner M, Vendramin GG, Aleksić JM (2020) Towards the dynamic conservation of Serbian spruce (*Picea omorika*) western populations. *Annals of Forest Science*, 77:1

2019

 34. Carbognani M[§], **Piotti A**[§], Leonardi S, Pasini L, Spanu I, Vendramin GG, Tomaselli M, Petraglia A (2019) Reproductive and genetic consequences of extreme isolation in *Salix herbacea* L. at the rear edge of its distribution. *Annals of Botany*, 124:849-860
 33. Ruiz Daniels R, Taylor RS, Gonzalez-Martinez SC, Vendramin GG, Fady B, Oddou-Muratorio S, **Piotti A**, Simoni G, Grivet D, Beaumont MA (2019) Looking for local adaptation: convergent microevolution in Aleppo pine (*Pinus halepensis*). *Genes*, 10:673
 32. Delnevo N, **Piotti A**, van Etten EJ, Stock WD, Byrne M (2019) Isolation, characterization, and cross-amplification of 20 microsatellite markers for the rare *Conospermum undulatum* (Proteaceae). *Applications in Plant Science*, 7:e11283
 31. Avanzi C[§], Piermattei A[§], **Piotti A**^{*}, Büntgen U, Heer K, Opgenoorth L, Spanu I, Urbinati C, Vendramin GG, Leonardi S (2019) Disentangling the effects of spatial proximity and genetic similarity on individual growth

- performances in Norway spruce natural populations. *Science of the Total Environment*, 650:493-504
- 2018** 30. **Piotti A**, Garbarino M, Avanzi C, Piovani P, Berretti R, Motta R, Leonardi S (2018) Influence of spatiotemporal dynamics on the fine-scale spatial genetic structure of differently managed *Picea abies* stands. *Forests*, 9:622
29. Heer K, Behringer D, Piermattei A, Bässler C, Brandl R, Fady B, Jehl H, Liepelt S, Lorch S, **Piotti A**, Vendramin GG, Weller M, Ziegenhagen B, Büntgen U, Opgenoorth L (2018) Linking dendroecology and association genetics in natural populations: Stress responses archived in tree rings associate with SNP genotypes in silver fir (*Abies alba*, Mill.). *Molecular Ecology*, 27:1428-1438
28. Santini F, Andrisano T, Leonardi S, Ciaschetti G, Labriola M, Vendramin GG, **Piotti A*** (2018) Genetic characterization of silver fir (*Abies alba* Mill.) plantations along the boundary between different genetic clusters. *Forest Ecology and Management*, 408:220-227
- 2017** 27. Ribeiro MM, **Piotti A**, Ricardo A, Gaspar D, Costa R, Parducci L, Vendramin GG (2017) Genetic diversity and divergence at the *Arbutus unedo* L. (Ericaceae) westernmost distribution limit. *PLoS One*, 12: e0175239
26. **Piotti A**[§], Leonarduzzi C[§], Postolache D, F Bagnoli, Spanu I, Brousseau L, Urbinati C, Leonardi S, Vendramin GG (2017) Unexpected scenarios from Mediterranean refugial areas: disentangling complex evolutionary dynamics along the Apennine distribution of silver fir. *Journal of Biogeography*, 44:1547-1558
25. Aleksic J[§], **Piotti A**[§], Geburek T, Vendramin GG (2017) Exploring a “microcosm”: Whole-stand genetic characterization within a refugial area of the endemic, relict conifer *Picea omorika*. *Conservation Genetics*, 18:777-788
24. Beghè D[§], **Piotti A**[§], Satovic Z, de la Rosa R, Belaj A (2017) Pollen-mediated gene flow and fine-scale spatial genetic structure in *Olea europaea* subsp. *europaea* var. *sylvestris*. *Annals of Botany*, 119: 671-679
- 2016** 23. Leonarduzzi C, **Piotti A***, Spanu I, Vendramin GG (2016) Effective gene flow in a historically fragmented area at the southern edge of silver fir (*Abies alba* Mill.) distribution. *Tree Genetics and Genomes*, 12: 95
22. Brousseau L, Postolache D, Lascoux M, Drouzas AD, Källman T, Leonarduzzi C, Liepelt S, **Piotti A**, Popescu F, Roschanski AM, Zhelev P, Fady B, Vendramin GG (2016) Local adaptation in European firs assessed through extensive sampling across altitudinal gradients in southern Europe. *PLoS One*, 11: e0158216
21. Leonarduzzi C, Spanu I, Labriola M, Gonzalez-Martinez SC, **Piotti A**, Vendramin GG (2016) Development and characterization of three highly informative EST-SSR multiplexes for *Pinus halepensis* Mill. and transferability to other Mediterranean pines. *Plant Molecular Biology Reporter*, 34: 993-1002
20. Bolpagni R, **Piotti A** (2016) The importance of being natural in a human-altered riverscape: Role of wetland type in supporting habitat heterogeneity and vegetation functional diversity. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 26: 1168-1183
- 2015** 19. Bertolasi B, Leonarduzzi C, **Piotti A***, Leonardi S, Zago L, Gui L, Gorian F, Vanetti I, Binelli G (2015) A last stand in the Po valley: Genetic structure and gene flow patterns in *Ulmus minor* and *U. pumila*. *Annals of Botany*, 115: 683-692
18. Bolpagni R, **Piotti A** (2015) Hydro-hygrophilous vegetation diversity and distribution patterns in riverine wetlands in an agricultural landscape: a case study from the Oglio River (Po plain, Northern Italy). *Phytocoenologia*, 45: 69-84
- 2014** 17. Vincenzi S, **Piotti A** (2014) Evolution of serotiny in maritime pine (*Pinus pinaster*) in the light of increasing frequency of fires. *Plant Ecology*, 215: 689-701
16. Postolache D, Leonarduzzi C, **Piotti A**, Spanu I, Roig A, Fady B, Roschanski A, Liepelt S, Vendramin GG (2014) Transcriptome versus genomic microsatellite markers: Highly informative multiplexes for genotyping *Abies alba* Mill. and congeneric species. *Plant Molecular Biology Reporter*, 32: 750-760
- 2013** 15. **Piotti A**, Leonardi S, Heuertz M, Buiteveld J, Geburek T, Gerber S, Kramer K, Vettori C, Vendramin GG (2013) Within-population genetic structure in beech (*Fagus sylvatica* L.) stands characterized by different disturbance histories: Does forest management simplify population substructure? *PLoS One*, 8: e73391
- 2012** 14. Leonarduzzi C, Leonardi S, Menozzi P, **Piotti A*** (2012) Towards an optimal sampling effort for paternity analysis in forest trees: what do the raw numbers tell us? *iForest*, 5: 18-25
13. Leonardi S, Piovani P, Scalfi M, **Piotti A**, Giannini R, Menozzi P (2012) Effect of habitat fragmentation on the genetic structure of peripheral populations of beech in Central Italy. *Journal of Heredity*, 103: 408-417

12. **Piotti A**, Leonardi S, Buiteveld J, Geburek T, Gerber S, Kramer K, Vettori C, Vendramin GG (2012) Comparison of pollen gene flow among four European beech (*Fagus sylvatica* L.) populations characterized by different management and evolutionary histories. *Heredity*, 108: 222-231
11. Belletti P, Ferrazzini D, **Piotti A**, Monteleone I, Ducci F (2012) Genetic variability and divergence in Scots pine (*Pinus sylvestris* L.) within its natural range in Italy. *European Journal of Forest Research*, 131: 1127-1138
- 2011 10. Bagnoli F, Fady B, Fineschi S, Oddou-Muratorio S, **Piotti A**[†], Sebastiani F, Vendramin GG (2011) Chapter 4: Neutral patterns of genetic variation and applications to conservation in conifer species. In: Plomion C, Bousquet J, Koe, C (eds.). *Genetics, Genomics and Breeding of Conifers*. Science Publishers, Inc., New Hampshire; Edenbridge Ltd., British Isles ([†] all authors contributed equally)
- 2010 9. Rossi V, **Piotti A**, Geiger W, Benassi G, Menozzi P (2010) Genetic structure of Austrian and Italian populations of *Limnocythere inopinata* (Crustacea, Ostracoda): a potential case of post-glacial parthenogenesis. *Annales Zoologici Fennici*, 47:133-143
8. Piovani P, Leonardi S, **Piotti A**^{*}, Menozzi P (2010) Conservation genetics of small relic populations of Silver fir (*Abies alba* Mill.) in the northern Apennines. *Plant Biosystems*, 144: 683-691
- 2009 7. **Piotti A**, Leonardi S, Piovani P, Scalfi M, Menozzi P (2009) Spruce colonization at treeline: where do those seeds come from? *Heredity*, 103: 136-145
6. Scalfi M, **Piotti A**, Rossi M, Piovani P (2009) Genetic variability of Italian southern Scots pine (*Pinus sylvestris*) populations: the rear edge of the range. *European Journal of Forest Research*, 128: 377-386
5. **Piotti A** (2009) The genetic consequences of habitat fragmentation: the case of forests. *iForest*, 2: 75-76
- 2008 4. Rossi V, **Piotti A**, Baltanas A, Benassi G, Menozzi P (2008) Genetic diversity and mixed reproduction in *Eucypris virens* (Crustacea: Ostracoda). *Fundamental and Applied Limnology* 172: 147-159
- 2007 3. Castracani C, **Piotti A**, Grasso DA, LeMoli F, Mori A (2007) Ant fauna as ecological indicator in parmesan agro-ecosystem. *Redia* 40: 67-70
2. Visicchio R, Castracani C, **Piotti A**, Mori A, Le Moli F (2007) The relationship among morphological traits, sexual behaviour and male mating success in the slave-making ant *Polyergus rufescens*. *Sociobiology* 50: 285-301
- 2006 1. Rossi V, Benassi G, Leonardi S, **Piotti A**, Menozzi P (2006) Geographic patterns of clonal diversity in *Heterocypris incongruens* (Crustacea: Ostracoda) in Northern Italy ricefields. *Archiv für Hydrobiologie*, 166: 225-240

[[†]equally contributed, ^{*} corresponding author]

Manuscripts in preparation

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| 07/2021
Submitted to <i>Annals of Botany</i> | Centenaro G, Petraglia A, Carbognani M, Piotti A , Hudek C, Buntgen U, Koln T, Crivellaro A (-) Revolutionising the age estimation of clonal plants – evidence from the oldest known <i>Salix herbacea</i> in the Northern Apennines (Italy). |
| 03/2021
to be submitted soon | Piovesan <i>et al.</i> (-) Tree-ring responses of Heldrieck's pine to climate along a 1260-m elevation gradient in the Mediterranean mountain revealed a low optimum temperature for productivity compensated by a positive response to spring warming |
| 03/2021
Submitted to <i>Ecological Indicators</i> | Picard N, Marchi M, Serra-Varela MJ, Westergren M, Cavers S, Notivol Paino E, Piotti A, Alizoti P, Bozzano M, González-Martínez SC, Grivet D, Aravanopoulos FA, Vendramin GG, Ducci F, Fady B, Alia R (-) Marginality indexes for biodiversity conservation in forest trees |
| 03/2021
in preparation | Carrer M, Piotti A , Prendin AL, Mahojan B, Piovani P, Leonardi S (-) Linking leaf phenology with xylem anatomical traits to better understand <i>Fagus sylvatica</i> L. responses to climate variability |
| 03/2021
in preparation | Avanzi C, Carrer M, Brunetti M, Piermattei A, Leonarduzzi C, Motta R, Nola P, Urbinati C, Vendramin GG, Piotti A (-) Disentangling the effect of climatic and genetic factors contributing to <i>Abies alba</i> tree-ring growth variation along the Italian peninsula. |
| 03/2021 | Avanzi C, Vitali A, Di Santo D, Piovani P, Reggioni W, Spanu I, Urbinati C, Vendramin GG, |

in preparation

Garbarino M, **Piotti A** (-) Genetic consequences of habitat fragmentation in two metapopulations of a Mediterranean conifer with contrasting fragmentation histories.

03/2021

to be submitted soon

Aleksić JM, Mataruga M, Daničić V, Cvjetković B, Milanović Đ, Vendramin GG, Avanzi C, **Piotti A** (-) High pollen immigration but no gene flow via seed after disturbance into a Genetic Conservation Unit of the endangered *Picea omorika*.

03/2021

in preparation

Avanzi C, Santini F, Andrisano T, Vendramin GG, Di Filippo A, Piotti A (-) Southern provenances reproductively outperform northern ones along the boundary between silver fir genetic lineages: a dendrogenetic perspective

Network of co-authors



Other publications (mostly Italian journals/books with referees)

- 2021 o. Beritognolo I, Camerano P, de Dato G, Ducci F, Ferlazzo S, Librandi I, Marchi M, Mattioni C, Monteverdi MC, Nervo G, Piloni S, Piotti A, Pompei E, Proietti R, Raparelli E, Sabatti M, Santini A, Scarascia Mugnozza G, Stefani A, Vendramin GG, Villani F (2021) Second Report on the State of the World's Forest Genetic Resources. National Report: Italy.
- n. Battipaglia G, Castagneri D, Coccozza C, Nola P, **Piotti A**, Vacchiano G (2021) Quello che provano gli alberi: gli anelli annuali come sentinelle dei cambiamenti ambientali. LifeGate [www.lifegate.it]
- 2020 m. Meneguzzo F, **Piotti A**, Avanzi C, Zabini F (2020) Le foreste: risorse fondamentali per la vita umana. In: *Terapia forestale*. A cura di Meneguzzo F, Zabini F. CNR Edizioni, Roma (Italy) – In Italian
- l. **Piotti A** (2020) *Box 1* - La ricostituzione dei boschi misti con abete bianco in Basilicata, rinnovazione naturale, reintroduzione per via artificiale: ragioni e metodi. In Borghetti M, Moretti N (2020) Basilicata, terra di boschi e studi forestali, *Forest@* 17: 1-16 - In Italian
- 2014 k. **Piotti A**, Borghetti M, Schettino A, Vendramin GG (2014) Studio della variabilità genetica adattativa in specie forestali: un approccio genomico per la definizione di strategie di conservazione per il pino loricato nel Parco Nazionale del Pollino. *Italia Forestale e Montana* 69: 115-124 - In Italian
- j. Valentini R, Chiriaco MV, Bacciu V, Barbati A, Borghetti M, Bosello F, Corona P, Giupponi C, Grimaldi S, La Mantia T, Menozzi P, Perugini L, Pettenella D, **Piotti A**, Romano R, Rulli C, Salis M, Scarascia Mugnozza G, Spano D, Vespertino D (2014) *Foreste*. A cura di Castellari S, Venturini S, Ballarin Denti A, Bigano A, Bindi M, Bosello F, Carrera L, Chiriaco MV, Danovaro R, Desiato F, Filpa A, Gatto M, Gaudioso D, Giovanardi O, Giupponi C, Gualdi S, Guzzetti F, Lapi M, Luise A, Marino G, Mysiak J, Montanari A, Ricchiuti A, Rudari R, Sabbioni C, Sciortino M, Sinisi L, Valentini R, Viaroli P, Vurro M, Zavatarelli M. Rapporto sullo stato delle conoscenze scientifiche su impatti, vulnerabilità ed adattamento ai cambiamenti climatici in Italia. Ministero dell'Ambiente e della Tutela del Territorio e del Mare, Roma – In Italian
- 2012 i. Borghetti M, La Mantia T, Menozzi P, **Piotti A** (2012) Probabili impatti del cambiamento climatico sulla biodiversità delle foreste italiane. *Forest@* 9: 245-250 - In Italian
- 2009 h. **Piotti A**, Leonardi S, Scalfi M, Piovani P, Guazzi E, Bartelletti A (2009) Analisi genetica della popolazione di

- abete bianco presente nel Parco Regionale delle Alpi Apuane. *Acta Apuana*, 6: 39-46 – In italian
- 2007 g. **Piotti A**, Piovani P, Scalfi M, Leonardi S, Menozzi P (2007) Global change e risalita della treeline: conseguenze genetiche della colonizzazione dei pascoli alpini. *Forest@* 4: 69-78 - In italian
- 2005 f. **Piotti A**, Piovani P, Scalfi M, Leonardi S, Menozzi P (2005) Genetics of colonization in a treeline ecotone in the Alps. Pp 203-204 in *The role of biotechnology for the characterisation and conservation of crop, forestry, animal and fishery genetic resources*. ([online] <http://www.fao.org/BIOTECH/docs/piotti.pdf>)
- e. Scalfi M, Piovani P, **Piotti A**, Leonardi S, Menozzi P (2005) Effect of habitat fragmentation on genetic structure of beech population of central Italy. Pp 211-212 in *The role of biotechnology for the characterisation and conservation of crop, forestry, animal and fishery genetic resources*. ([online] <http://www.fao.org/BIOTECH/docs/scalfi.pdf>)
- d. Piovani P, **Piotti A** (2005) La genetica di popolazioni fornisce un efficace strumento per quantificare l'impatto della frammentazione in ecosistemi forestali. *Forest@* 2: 153-155 - In italian
- c. Scalfi M, Piovani P, **Piotti A**, Leonardi S, Menozzi P (2005) Effetti della frammentazione sulla struttura genetica del faggio. *Italia Forestale e Montana* 60: 351-365 - In italian
- 2004 b. Castracani C, Visicchio R, **Piotti A**, Mori A, Le Moli F (2004) Analysis of correlation between morphometrics and male mating-success in the slave-making ant *Polyergus rufescens* (Hymenoptera, Formicidae). *Insect Social Life* 5: 55-57
- a. Visicchio R, **Piotti A**, Mori A, Le Moli F (2004) A biometrical analysis of ergatogynes of the slave-making ant *Polyergus rufescens*. *Insect Social Life* 5: 77-80

Other publications (Technical reports)

- 2021 xii. Avanzi C, Bagnoli F, Vendramin GG, **Piotti A**. Final report, project "Contratto per servizi di analisi genetiche di campioni di biomassa forestale e confronto con popolazioni alpine".
- xi. Avanzi C, Spanu I, **Piotti A**. Final report, Project "Studio della variabilità genetica delle popolazioni di Abete bianco allo scopo di individuare la forma di gestione migliore per evitare la scomparsa dell'habitat prioritario 9220*".
- 2018 x. **Piotti A**, Avanzi C, Vendramin GG. Final report, Project "Indagine integrativa sulla provenienza genetica e livello autoctonia del popolamento di *Abies alba* in località "Fossa di Pentima" nel territorio del Parco Nazionale della Majella".
- 2017 ix. **Piotti A**, Labriola M, Spanu I, Vendramin GG. Final report, Project "Indagine su provenienza genetica e livello autoctonia dei popolamenti di *Pinus nigra* presenti nel territorio del Parco Nazionale del Pollino".
- 2016 viii. **Piotti A**, Labriola M, Spanu I, Vendramin GG. Final report, Project "Conservazione in situ del germoplasma di pino loricato. Azione A – Adattamento del pino loricato ai cambiamenti climatici: analisi genomiche ed ecofisiologiche".
- 2015 vii. **Piotti A**, Santini F, Vendramin GG. Final report, Project "Indagine su provenienza genetica e livello autoctonia dei popolamenti artificiali di *Abies alba* presenti nel territorio del Parco Nazionale della Majella".
- vi. Jahn D, Buiteveld J, Guichoux E, Vendramin GG, **Piotti A**, Fussi B, Blanc-Jolivet C, Liesebach H, Liesebach M (2015) Deliverable D7.3 - Report on standard set of protocol for dissemination to laboratories outside of the consortium. WP7 TREES4FUTURE Project.
- v. **Piotti A**, Vendramin GG. Final report, Project "Conservazione in situ del germoplasma di pino loricato. Azione 2 – Studio della variabilità genetica adattativa".
- 2014 iv. Fussi B, Belle C, Konnert M, Blanc-Jolivet C, Liesebach M, Buiteveld J, **Piotti A**, Spanu I, Vendramin GG, Guichoux E, Tröber U, Jahn D, Mengl M, Heinze B. Deliverable D7.2 – Report on cross-validation of molecular marker identification protocols. WP7 TREES4FUTURE Project.
- iii. Urbinati C, Gallucci V, **Piotti A**, Leonarduzzi C, Spanu I, Vendramin GG. Final Report, project "Caratterizzazione genetica, ecologico-strutturale e dendrocronologica dei popolamenti di abete bianco del Parco Nazionale del Gran Sasso e dei Monti della Laga", Regione Abruzzo, PSR 2007-2013, Asse 3 – Bando misura 323 Tutela e riqualificazione del patrimonio rurale. Piani SIC e ZPS.
- 2012 ii. Fussi B, Belle C, Konnert M, Blanc-Jolivet C, Liesebach M, Buiteveld J, **Piotti A**, Vendramin GG, Wagner S, Petit RJ, Jahn D, Heinze B. Deliverable D7.1 – Report on review of available and tested methods for identification and on new marker development. WP7 TREES4FUTURE Project.

- 2007 i. Scalfi M, Piovani P, Piotti A - Final report, Project "Analisi genetica della popolazione di pino solvestre presente nel parco storico di Monte Sole".

Projects

- 2021-2024 Parco Nazionale dell'Appennino Tosco-Emiliano "Programma di Interventi per l'efficientamento energetico, la mobilità sostenibile, la mitigazione e l'adattamento ai cambiamenti climatici degli Enti parco nazionali. Intervento tipologia IV: Primo programma di interventi per favorire la resilienza delle foreste del parco attraverso interventi favorevoli la "migrazione assistita" delle specie arboree", Project leader **Andrea Piotti** – IBBR-CNR
- 2021-2025 European Project H2020 FORGENIUS "Improving access to FORest GENetic resources Information and services for end-USers", Project Leader Ivan Scotti - INRAE Avignon [<http://www.forgenius-h2020.eu/>]. IBBR-CNR **WP leader of WP4** "GenRes genomic characterisation and building of multidimensional indices of adaptability and resilience".
- 2021-2024 Parco Nazionale delle Foreste Casentinesi, Monte Falterona e Campigna "Ottimizzazione della gestione selvicolturale delle abetine del Parco Nazionale delle Foreste Casentinesi e dei prodotti lignei a ciclo di vita lungo, finalizzati all'aumento dello stoccaggio della CO2, mediante certificazione di gestione forestale sostenibile (GFS) e promozione della catena di custodia (CoC)", PI IBBR unit **Andrea Piotti**.
- 2020-2022 CNR Project "FOE Cambiamento climatico: mitigazione del rischio per uno sviluppo sostenibile – Foreste", Project leader DISBA Giorgio Matteucci – ISAFOM-CNR, PI IBBR unit **Andrea Piotti**.
- 2020-2020 TESAF UNIPD "Contratto per servizi di analisi genetiche di campioni di biomassa forestale e confronto con popolazioni alpine" Project leader **Andrea Piotti** – IBBR-CNR
- 2020-2021 Parco Nazionale dell'Appennino Tosco-Emiliano "Indagine genetica su popolazioni relitte di abete rosso nel Parco Nazionale dell'Appennino Tosco-Emiliano e origine delle piantagioni limitrofe", Project leader **Andrea Piotti** – IBBR-CNR
- 2020-2021 Parco Nazionale dell'Appennino Tosco-Emiliano "Indagine genetica sull'abete bianco dell'Abetina Reale nel Parco Nazionale dell'Appennino Tosco-Emiliano", Project leader **Andrea Piotti** – IBBR-CNR
- 2020-2022 Regione Lombardia "ResQ - Deperimento della quercia nei boschi planiziali: studio multidisciplinare per la selezione di risorse genetiche resistenti", **Andrea Piotti** WP leader of WP4 "Multi-disciplinary data analysis", Project leader Paola Nola - Univ Pavia
- 2019-2021 ERSAF Lombardia "Assistenza tecnica in ambito forestale per la definizione di criteri e linee guida nella gestione dei querceti lombardi - Progetto LIFE IP Gestire 2020 – Azione A.18 e C.14", Project leader Silvia Assini - Univ Pavia
- 2019-2020 Parco Nazionale dell'Appennino Tosco-Emiliano "Relazioni genetiche tra popolazioni relitte e piantagioni di abete bianco nel Parco Nazionale dell'Appennino Tosco-Emiliano", Project leader **Andrea Piotti** – IBBR-CNR
- 2019-2020 Ministry of Science and Technology of the Republic of Srpska "Defining strategies for in situ and ex situ conservation of Serbian spruce with respect to climate change", Project leader Milan Mataruga - University of Banja Luka
- 2019-2020 "TreeType - An open project on tree phenotypes" EvolTree [www.treetype.org]
- 2019-2020 Bilateral Project Italy/Montenegro "Adaptive capacity of *Fagus sylvatica* along altitudinal transects in the Apennines and the Balkans", Project leaders Giovanni Giuseppe Vendramin – IBBR-CNR, Jelena Lazarevic – University of Montenegro
- 2019-2021 Progetto "Ambiente 2018" Fondazione con il Sud "L'ultima foresta incantata", Project Leader Remo Bartolomei – Centro Studi Appennino Lucano
- 2018-2022 European Project H2020 B4EST "Adaptive BREEDING for productive, sustainable and resilient FORESTs under climate change", Project Leader Catherine Bastien - INRA Orleans [<http://www.b4est-h2020.eu/>]
- 2018 Parco Nazionale della Majella "Indagine integrativa sulla provenienza genetica e livello autoctonia del popolamento di *Abies alba* in località "Fossa di Pentima" nel territorio del Parco Nazionale della Majella", Project leader **Andrea Piotti** – IBBR-CNR
- 2017-2019 France Génomique project "Genome sequence variation in European beech (*Fagus sylvatica*): analysing adaptation and adaptability in an ecologically and economically major European forest tree species challenged by climate change", Project leader Ivan Scotti - Ecologie des Forêts Méditerranéennes (URFM) - INRA Avignon.
- 2017-2018 Bilateral Project Italy/Montenegro "Adaptive responses to drought in *Pinus heldreichii* along altitudinal transects

- in the Apennines and the Balkans", Project leaders Giovanni Giuseppe Vendramin – IBBR-CNR, Jelena Lazarevic – University of Montenegro
- 2016-2020 European Project H2020 GenTree "Optimising the management and sustainable use of forest genetic resources in Europe", Project Leader Bruno Fady - Ecologie des Forêts Méditerranéennes (URFM) - INRA Avignon [<http://www.gentree-h2020.eu/>]
- 2016-2017 Parco Nazionale del Pollino "Indagine su provenienza genetica e livello autoctonia dei popolamenti di *Pinus nigra* presenti nel territorio del Parco Nazionale del Pollino", Project leaders Giovanni Giuseppe Vendramin & **Andrea Piotti** – IBBR-CNR
- 2015-2017 European Project INFORMED (INtegrated research on FOrest Resilience and Management in the mEDiterranean) "Fostering forest system resilience through managing biodiversity, from genes to communities (Biodiversity)", Project leader François Levefre - INRA Avignon [http://www6.inra.fr/informed-foresteria_eng]
- 2015-2016 Bilateral Project Italy/Montenegro "Tree fragmented populations from refugial areas: the anfiadriatic connection", Project leaders Giovanni Giuseppe Vendramin – IBBR-CNR, Jelena Lazarevic – University of Montenegro
- 2015 Parco Nazionale della Majella "Indagine su provenienza genetica e livello autoctonia dei popolamenti artificiali di *Abies alba* presenti nel territorio del Parco Nazionale della Majella", Project leaders Giovanni Giuseppe Vendramin & **Andrea Piotti** – IBBR-CNR
- 2015 Parco Nazionale dell'Appennino Tosco-Emiliano "La conservazione di *Salix herbacea* L. nel Parco Nazionale dell'Appennino Tosco-Emiliano", Project leader Alessandro Petraglia – Università di Parma
- 2015 Parco Nazionale del Pollino "Conservazione *in situ* del germoplasma di pino loricato. Azione 1 – Indagini genomiche ed ecofisiologiche: adattamenti ai cambiamenti climatici del pino loricato", Project leaders Giovanni Giuseppe Vendramin & **Andrea Piotti** – IBBR-CNR
- 2014 Parco Nazionale del Pollino "Conservazione *in situ* del germoplasma di pino loricato. Azione 2 – Studio della variabilità genetica adattativa", Project leaders Giovanni Giuseppe Vendramin & **Andrea Piotti** – IBBR-CNR
- 2012-2016 COST Action FP1202 MaP-FGR "Strengthening conservation: a key issue for adaptation of marginal/peripheral populations of forest trees to climate change in Europe", Project leader Fulvio Ducci – CRA Arezzo [<http://map-fgr.entecra.it/>]
- 2012-2013 Parco Nazionale del Gran Sasso e Monti della Laga "Caratterizzazione ecologico-strutturale, dendroecologica e genetica delle cenosi con abete bianco (*Abies alba* Mill.) nel Parco Nazionale Gran Sasso e Monti della Laga", Project Leader Carlo Urbinati – Università Politecnica delle Marche
- 2011-2015 European Project FORGER "Towards the sustainable Management of forest Genetic Resources in Europe", Project Leader Koen Kramer – Alterra (The Netherlands) [<http://www.fp7-forger.eu/>]
- 2011-2015 European Project TREES4FUTURE "Designing Trees for the Future", Project Leader Luc E. Pâques – INRA Orleans (France) [<http://www.trees4future.eu/>]
- 2011-2014 ERANET Biodiversa - "Approccio multitaxa allo studio delle risposte della biodiversità italiana al cambiamento climatico", Project Leader GG Vendramin – IGV-CNR Florence
- 2011-2012 Polish Ministry of Science and Higher Education "Ancestry, species status and natural regeneration in unique xerothermic oak population in "Bielinek" reserve over Oder river", Project Leader Igor Chybicki – Uniwersytet Kazimierza Wielkiego – Bydgoszcz
- 2010-2011 PRIN (Italian Ministry of University and Research funds) "Adattamento a cambiamenti climatici in specie forestali mediterranee: un approccio di genomica di popolazioni", Project Leader Giorgio Binelli – University of Insubria Varese-Como
- 2008 Appennino Tosco-Emiliano National Park - "Studio del flusso genico nella popolazione relitta di abete bianco (*Abies alba*, Mill.) del Monte Ventasso (RE)", Project Leader Stefano Leonardi – University of Parma
- 2006 Historic Park of Monte Sole - "Analisi genetica della popolazione di pino silvestre presente nel parco storico di Monte Sole", Project Leader Marta Scalfi, IASMA Research and Innovation Centre - San Michele all'Adige
- 2006 Regional Park of the Apuan Alps - "Analisi genetica della popolazione di abete bianco (*Abies alba* Mill.) presente nel Parco delle Alpi Apuane", Project Leader Paolo Piovani – University of Parma
- 2005-2006 PRIN (Italian Ministry of University and Research funds) "Foreste di alta quota delle Alpi e degli Appennini: strutture, fattori limitanti, adattamenti fisiologici e dinamiche passate, presenti e future", Project Leader Renzo Motta – University of Turin
- 2003-2004 PRIN (Italian Ministry of University and Research funds) "Limitazioni ambientali e fisiologiche dell'accrescimento degli alberi al limite superiore del bosco nelle Alpi e negli Appennini", Project Leader Renzo Motta – University of Turin

2001-2004 European Project QLK5-1999-01210 “DynaBeech: Effects of silvicultural regimes on dynamics of genetic and ecological diversity of European forests”, Project Leader Koen Kramer – Alterra (Olanda)

Main scientific collaborations

2021-ongoing	Duccio Migliorini & Alberto Santini (IPSP-CNR): Resistance of <i>Fraxinus excelsior</i> to <i>Hymenoscyphus fraxineus</i> in Italy	
2020-ongoing	Silvio Oggioni & Giorgio Vacchiano (Univ Milan): Adaptation to drought of Italian silver fir genotypes with a view to climate change	
2018-ongoing	Sylvie Oddou-Muratorio (INRA Avignon): Detection of selection across generations in <i>Abies alba</i> , <i>Fagus sylvatica</i> , <i>Picea abies</i> , <i>Pinus halepensis</i>	paper #33, #44
2019-ongoing	Francesco Ripullone (Univ Basilicata): Ecological and genetic determinants of declining phenotyped in oak forests	
2019-ongoing	Elia Vajana (EPFL Lausanne): Landscape genomics of European forest tree species	paper #44
2018-ongoing	Paola Nola & Silvia Assini (Univ Pavia): Conservation genetics of <i>Quercus robur</i> remnant forests in Northern Italy	
2017-ongoing	Alan Crivellaro & Giada Centenaro (Univ Cambridge): <i>Salix herbacea</i> dendroanatomy and age estimation	Paper #38
2017-ongoing	Nicola Delnevo (Univ Western Australia): the consequences of habitat fragmentation on gene flow patterns in <i>Conospermum undulatum</i>	paper #32, #43
2016-ongoing	Katrin Heer & Lars Opgenoorth (Philipps-University Marburg): Dendrogenomic responses along <i>Abies alba</i> and <i>Picea abies</i> altitudinal transects	paper #29, #31, #36, #37, #42
2016-ongoing	Marco Carrer (Univ Padua): 1) study of the relationship between individual phenology and cambial activity in beech and 2) dendroresponses in different silver fir genetic clusters	
2015-ongoing	Marcello Tomaselli, Alessandro Petraglia & Michele Carbognani (Univ Parma): Genetic consequences of peripherality in <i>Salix herbacea</i> Apennine populations	paper #34
2014-2018	Margarida Ribeiro (Polytechnic Inst Castelo Branco): Genetic characteristics of peripheral <i>Arbutus unedo</i> populations	paper #27
2013-ongoing	Jelena Aleksic (Univ Belgrade): Conservation genetics of <i>Picea omorika</i> remnants	paper #25, #35
2012-ongoing	Carlo Urbinati (Univ Politecnica Marche) & Alma Piermattei (Univ Cambridge): Genetic variability of Apennine conifers: a dendrogenomic approach	paper #26, #30, #31, #37, #38
2012-ongoing	Stefano Leonardi (Univ Parma) and Paolo Piovani (freelance researcher): Several aspects of forest trees' population genetics	paper #15, #19, #26-28, #30-31, #34, #37
2012-ongoing	Marco Borghetti & Tiziana Gentilesca (Univ Basilicata): 1) The genomic basis of resistance to drought in <i>Pinus halepensis</i> , 2) Population genomics along <i>Pinus leucodermis</i> altitudinal transects	
2010-ongoing	Igor Chybicki (Uniwersytet Kazimierza Wielkiego – Bydgoszcz): i) Phylogeography and genetic connections among fragmented populations of <i>Quercus pubescens</i> ; ii) Testing a method for taking into account allele dropout in calculating inbreeding and differentiation among populations (FADE)	
2005-ongoing	Renzo Motta, Roberta Berretti, Matteo Garbarino (Univ Turin): study of the relationship among individual phenology, environmental conditions and dendrochronological characteristics in forest trees	#30
2013-2015	Deborah Beghè (Univ Parma): Gene flow in <i>Olea europaea</i>	paper #24
2012-2016	Rossano Bolpagni (Univ Parma): Data analysis on distribution patterns of vegetation in riverine habitats	paper #18, #20
2011-2015	Giorgio Binelli (Univ Insubria-Varese) & Bruno Bertolasi (CNBF Peri): Gene flow in a relic <i>Ulmus minor</i> population	paper #19
2006-2012	Beppe Vendramin (CNR Florence): i) Study of gene flow analyzing parentage relationships in European beech (<i>Fagus sylvatica</i> L.); ii) Genomic characterization of <i>Abies alba</i> populations from the Apennine chain	paper #10, #12
2007-2012	Piero Belletti (Univ Turin): study of genetic variability and biogeography of Scots pine	paper #11

	(<i>Pinus sylvestris</i>) populations in Italy	
2002-2010	Cristina Castracani (Univ Parma): study of reproductive biology in the slave-making ant <i>Polyergus rufescens</i> , and the application of ant fauna as ecological indicator	paper #2-3
2007-2010	Marta Scalfi (IASMA San Michele all'Adige): study of population genetics (mainly the effects of fragmentation) and genomics (LD in phenology-related genes) of Italian populations of European beech (<i>Fagus sylvatica</i> L.)	paper #6-7
2005-2009	Valeria Rossi (Univ Parma): study of genetic variability and gene flow in ostracods	paper #1, #4, #9

Peer reviewing

Journals	<i>Ecology, Molecular Ecology, New Phytologist, Heredity, Molecular Ecology Resources, Journal of Biogeography, Scientific Reports, PLoS ONE, BMC Genetics, Tree Genetics and Genomes, American Journal of Botany, Annals of Forest Science, Population Ecology, Plant Systematics and Evolution, Conservation Genetics, iForest, Botanical Studies, Dendrochronologia, Spanish Journal of Agricultural Research, Forest@, Plant Biosystems, Annals of Silvicultural Research</i>
Associate Editor	2012-ongoing <i>iForest</i> (international ISI journal) 2012-ongoing <i>Forest@</i> (Italian peer-reviewed journal)
Publons ID	https://publons.com/a/928421/
Research projects	Reviewer for the Research Foundation – Flanders (FWO) [www.fwo.be] in 2018 Registered as Expert Peer Reviewers for Italian Scientific Evaluation from Feb 2018

Datasets

2021	Dataset » Opgenoorth <i>et al.</i> (2021) GigaScience – GigaDB DOI 10.5524/100855
2021	Dataset » Benavides <i>et al.</i> (2021) Global Ecol Biogeogr – Figshare DOI 10.6084/m9.figshare.12044370
2020	Dataset » Martinez-Sancho <i>et al.</i> (2020) Sci Data - Figshare DOI 10.6084/m9.figshare.c.4561037
2017	Dataset » Piotti <i>et al.</i> (2017) J Biog - Figshare DOI 10.6084/m9.figshare.4704748.v1
2016	Dataset » Leonarduzzi <i>et al.</i> (2016) TGG - Figshare DOI 10.6084/m9.figshare.3811587.v1
2011	Dataset » Piotti <i>et al.</i> (2012) Heredity - Dryad DOI 10.5061/dryad.6kt34

Awards and membership of scientific societies and organizations

2021-ongoing	Member of SISEF Work Group “Forests, Mitigation, Adaptation” (https://sisef.org/sisef/gdl/foreste-e-clima/)
2021-ongoing	Member of the Scientific Committee of the AlberItalia foundation (www.alberitalia.it)
2021-ongoing	Member of the EUFORGEN Panel of National Experts for Forest Genetic Resources
2019-ongoing	Member of the “Men and Forests” working table of the Unesco MAB Biosphere Reserve Appennino Tosco Emiliano
2018-ongoing	Member of AForGen - Alpine Forest Genomics Network (www.aforgen.wsl.ch)
2018	Paper Beghè <i>et al.</i> 2017 <i>Ann Bot</i> winner of the “Antico Fattore” prize from Accademia dei Georgofili (http://www.georgofili.it/contenuti/premio-antico-fattore/1618) to D Beghè
2017	Paper Piotti <i>et al.</i> 2017 <i>J Biog</i> winner of the UNASA prize (http://www.unasa.net) to C Leonarduzzi
2016-ongoing	Corresponding member of the Ateneo di Salò (http://ateneodisalo.com)
2015-ongoing	Member of the Italian Society of Selviculture and Forest Ecology (SISEF, https://sisef.org)
2012-ongoing	Member of EvolTree: EVOLution of TREES as drivers of terrestrial biodiversity. EU Network of Excellence (FP6)
2007-2008	Member of the Italian Society of Ecology (SItE, https://www.ecologia.it)

Computer skills

<i>Data analysis & Programming</i>	R
<i>Genetic data analysis</i>	GenAlEx, GenePop, Fstat, InEst, InStruct, Bottleneck, Structure, Distruct, StructureHarvester, SpaGeDi, NMπ, Genotype/Genodive, RstCalc, FaMoz, Cervus, HPrare, Easypop, FreeNA, FADE, BAPS, SPADE, NEstimator, ONeSAMP, Colony, Migraine, genetic data analysis and spatial analysis packages in R (genetics, geneland, adegenet, statspat).
<i>Graphics</i>	R, Inkscape, Gimp

Conference and meeting presentations

- 2022 Piotti A, Avanzi C, Romiti E, Vendramin GG, Bagnoli F. Nuove conoscenze filogeografiche fissano le priorità per la conservazione delle risorse genetiche di farnia in Italia. *Alberi-Foreste-Biodiversità: dal New Green Deal alla Farm to Fork Strategy*. SISEF Congress – Orvieto, Feb 20th-23th 2022
- Beritognolo I, Camerano P, de Dato G, Ducci F, Ferlazzo S, Leonardi S, Librandi I, Marchi M, Mattioni C, Monteverdi MC, Nervo G, Piloni S, Piotti A, Pompei E, Proietti R, Raparelli E, Sabatti M, Santini A, Scarascia Mugnozza G, Stefani A, Vendramin GG, Vietto L, Villani F. Il contributo nazionale presentato alla FAO per l'Inventario Mondiale delle Risorse Genetiche Forestali (FAO SoW FGR). *Alberi-Foreste-Biodiversità: dal New Green Deal alla Farm to Fork Strategy*. SISEF Congress – Orvieto, Feb 20th-23th 2022
- Marchi M, Bucci G, Piotti A. Modellistica ecologica per le specie forestali in Italia in un clima che cambia: a che punto siamo? *Alberi-Foreste-Biodiversità: dal New Green Deal alla Farm to Fork Strategy*. SISEF Congress – Orvieto, Feb 20th-23th 2022
- Oggioni S, Rossi L, Luoni P, Piotti A, Avanzi C, Marchetti M, Vacchiano G. Adattamento alla siccità dei genotipi italiani di abete bianco in un'ottica di cambiamento climatico. *Alberi-Foreste-Biodiversità: dal New Green Deal alla Farm to Fork Strategy*. SISEF Congress – Orvieto, Feb 20th-23th 2022
- Pericolo O, Avanzi C, Storch T, Assini S, Bracco F, Piotti A, Borghetti M, Bagnoli F, Ripullone F, Nola P. Deperimento della farnia in Lombardia: focus sul fenomeno attraverso un'analisi dendro-ecologica. *Alberi-Foreste-Biodiversità: dal New Green Deal alla Farm to Fork Strategy*. SISEF Congress – Orvieto, Feb 20th-23th 2022
- Avanzi C, Vitali A, Piovani P, Spanu I, Urbinati C, Vendramin GG, Garbarino M, Piotti A. Relationships among environmental features and genetic characteristics of highly fragmented silver fir populations in northern and central Apennines. *Alberi-Foreste-Biodiversità: dal New Green Deal alla Farm to Fork Strategy*. SISEF Congress – Orvieto, Feb 20th-23th 2022
- 2021 Piotti A "Gestione delle risorse genetiche forestali in un ambiente che cambia: necessità di un approccio evolutivo". *Invited speaker* at the SISEF webinar "Sfide e necessità per le foreste del futuro" held on-line on November 16th 2021.
- Aleksic JM, Vendramin GG, Piotti A. Tailoring conservation to suit Serbian spruce. *Invited keynote speaker* at topical session "Conservation strategies" of EVOLTREE 1st Conference "Genomics and Adaptation in Forest Ecosystems", Birmensdorf – September 14th-17th 2021.
- Piotti A, Avanzi C, Bagnoli F. La genetica e la biodiversità: salvare la farnia del bosco Pantano di Policoro. Webinar "Giornata Mondiale per la Biodiversità", held on-line and organized by SAFE - School of Agricultural, Forest, Food and Environmental Sciences, University of Basilicata, May 22nd 2021
- Vendramin GG, Piotti A. *Adattamento e conservazione: la genetica forestale per la tutela degli ecosistemi forestali mediterranei*. *Invited speakers* at the "La Biodiversità: una risorsa da valorizzare" congress held on-line, Accademia Nazionale delle Scienze detta dei XL, Apr 20th 2021
- Piotti A, Avanzi C, Bagnoli F, Vendramin GG. *Tracciabilità genetica*. Workshop "Progetto InForTrac: innovazione e trasferimento tecnologico per la digitalizzazione del settore forestale" held on-line, Feb 25th 2021
- Piotti A, Avanzi C. *Studio della variabilità genetica delle popolazioni di conifere autoctone nel territorio del Parco Nazionale dell'Appennino Tosco-Emiliano*. Tavoli di lavoro della 5^a Assemblea consultiva Riserva di Biosfera Appennino Tosco-Emiliano, gruppo di lavoro tematico 'Uomini e Foreste', held on-line, April 14th 2021
- 2020 Vendramin GG, Piotti A. *Molecular signature of climate adaptation at different spatial scales in Mediterranean conifers*. *Invited keynote speakers* at the International Workshop "Conservation and restoration of forest and grassland ecosystems - Strategic tools for addressing the environmental crisis", held on-line, December 4th 2020
- Piotti A. *Gli alberi straordinari dell'Appennino Emiliano*. Workshop "Meditazione e Salute in Foresta" - Ca' di Casino Montalto, Sep 6th 2020
- Piotti A, Avanzi C, Spanu I, Vendramin GG, Bagnoli F. *Presentazione del progetto "L'ultima foresta incantata": Le analisi genetiche - Oasi WWF Herakleia di Policoro (MT)*, Jun 27th 2020
- Piotti A, Avanzi C. *Studio della variabilità genetica delle popolazioni di Abete bianco allo scopo di individuare la forma di gestione*

- migliore per evitare la scomparsa dell'habitat prioritario 9220* - Primi risultati. Assemblea consultiva Riserva di Biosfera Appennino Tosco-Emiliano, gruppo di lavoro tematico 'Uomini e Foreste', Parma, Feb 18th 2020
- Farsakoglou A-M, Scotti I, Aravanopoulos FA & the GenTree Consortium. *Genome-wide genetic diversity and differentiation of 12 major European tree species elucidates conservation needs*. GenTree final meeting 'Genetics to the rescue: managing forests sustainably in a changing world' - Avignon, Jan 27th-31st 2020
- Lascoux M, Pyhäjärvi T & the GenTree Consortium. *Comparative demography of seven tree species across Europe*. GenTree final meeting 'Genetics to the rescue: managing forests sustainably in a changing world' - Avignon, Jan 27th-31st 2020
- Budde KB, Grivet D, Pinosio S, Scalabrin S, Hurel A, Bagnoli F, Piotti A, Vendramin GG, González-Martínez SC. *Range wide genetic variation and divergence in Pinus pinaster elucidated by gene capture data*. GenTree final meeting 'Genetics to the rescue: managing forests sustainably in a changing world' - Avignon, Jan 27th-31st 2020
- 2019 Vitali A, Tonelli E, Malandra F, Piotti A, Avanzi C, Vendramin GG, Piermattei A, Urbinati C. *Can adaptive forest management improve Abies alba resilience to climate and anthropogenic pressure of peninsular Italy?* SISEF Congress – Palermo, Nov 12th-15th 2019
- Mataruga M, Piotti A, Daničić V, Cvjetković B, Fussi B, Konner M, Vendramin GG, Aleksić JM. *Dynamic conservation of Picea omorika populations in the Republic of Srpska, Bosnia and Herzegovina*. VI Congress of the Serbian Genetics Society– Vrnjačka Banja, Oct 13th-17th 2019
- Avanzi C, Heer K, Büntgen U, Labriola M, Leonardi S, Opgenoorth L, Piermattei A, Urbinati C, Vendramin GG, Piotti A. *Do dendrophenotypic traits influence individual reproductive success? An empirical assessment in Norway spruce natural populations*. *Invited speaker* at the VI Congress of the Serbian Genetics Society– Vrnjačka Banja, Oct 13th-17th 2019
- Vendramin GG, Piotti A. *Molecular signatures of climate adaptation and demography in Mediterranean conifers*. *Invited keynote speakers* at VI Congress of the Serbian Genetics Society– Vrnjačka Banja, Oct 13th-17th 2019
- Solé A, Hurel A, Robledo-Arnuncio JJ, González-Martínez SC, Notivol E, Vendramin GG, Piotti A, Ramírez-Valiente JA. *Genetic variation and phenotypic plasticity in early fitness traits across the range of a Mediterranean conifer: implications in a changing climate*. IUFRO World Congress - Curitiba, Sep 29th-Oct 7th
- Fady B, GenTree consortium. *Main results from GenTree: genetic, phenotypic, environmental variability to inform conservation and sustainable use of forest genetic diversity*. 8th AForGen Meeting – Mt. Ventoux, Jun 12th-14th 2019
- Major E, Höhn M, Avanzi C, Fady B, Heer K, Liepelt S, Opgenoorth L, Piotti A, Popescu F, Postolache D, Vendramin GG, Ziegenhagen B, Csilléry K. *Fine scale genetic structure in silver fir across 14 sites: comparing cohorts, spatial sampling schemes*. 8th AForGen Meeting – Mt. Ventoux, Jun 12th-14th 2019
- Heer K, Behringer D, Piermattei A, Bässler C, Fady B, Liepelt S, Piotti A, Vendramin GG, Ziegenhagen B, Büntgen U, Opgenoorth L. *Linking dendroecology and association genetics in forest trees*. ESEB Congress – Turku, Aug 19th-24th 2019
- Avanzi C, Heer K, Büntgen U, Labriola M, Leonardi S, Opgenoorth L, Piermattei A, Urbinati C, Vendramin GG, Piotti A. *Do dendrophenotypic traits influence individual reproductive success? An empirical assessment in Norway spruce natural populations*. TRACE Congress – Caserta, May 7th-10th 2019
- Solé A, Hurel A, Robledo-Arnuncio JJ, González-Martínez SC, Notivol E, Vendramin GG, Piotti A, Ramírez-Valiente JA. *Intra-specific genetic variation at early fitness traits across different spatial scales in European Pinus pinaster populations*. 1st Iberian Ecological Society Meeting - Barcellona, Feb 4th-7th
- 2018 Piovesan G, Baliva M, Borghetti M, Ciancio O, De Vivo G, Di Filippo A, Gentilesca T, Melfi G, Piotti A, Presutti Saba E, Ripullone F, Rita A, Schettino A, Vendramin GG. *Gli alberi vetusti un patrimonio naturale, ambientale e culturale: il caso del pino loricato del Pollino*. IV Congresso Nazionale di Selvicoltura – Torino, Nov 5th-9th 2018
- Major E, Höhn M, Avanzi C, Fady B, Heer K, Liepelt S, Opgenoorth L, Piotti A, Popescu F, Postolache D, Vendramin GG, Ziegenhagen B, Csilléry K. *Environmental drivers of fine scale genetic structure in silver fir (Abies alba) populations across the species' distribution range*. Conference "Molecular Biodiversity: Taxonomy, Phylogenetics and Phylogeography" Hungarian Academy of Sciences - Budapest, Nov 12th 2018
- Ribeiro MM, Roque N, Albuquerque T, Gerassis S, Parduzzi L, Piotti A, Vendramin GG. *Glacial refugia for strawberry tree (Arbutus unedo) in Portugal based on ecological niche modelling and organellar marker analyses*. Conference on Past Plant Diversity Changes - Rabat, Oct 1st-5th
- Heer K, Behringer D, Piermattei A, Bässler C, Fady B, Jehl H, Liepelt S, Lorch S, Piotti A, Vendramin GG, Weller M, Ziegenhagen B, Büntgen U, Opgenoorth L. *Linking dendroecology and association genetics in forest trees*. 7th AForGen Meeting – Kranjska Gora, Jun 21th-23th 2018
- Major E, Höhn M, Avanzi C, Fady B, Heer K, Liepelt S, Opgenoorth L, Piotti A, Popescu F, Postolache D, Vendramin GG, Ziegenhagen B, Csilléry K. *Environmental drivers of fine scale genetic structure in silver fir populations across the range*. 7th AForGen Meeting – Kranjska Gora, Jun 21th-23th 2018
- Piermattei A, von Arx G, Gärtner H, Fonti P, Avanzi C, Piotti A, Vendramin GG, Urbinati C, Crivellaro A, Büntgen U. *Exploring inter-individual wood anatomical variation along a Picea abies altitudinal transect*. TRACE Congress – Greifswald, Apr 24th-27th 2018
- 2017 Piotti A. *Impiego di strumenti genetici per lo studio del declino dei boschi*. Workshop "Il declino dei boschi di farnia nel Parco del Ticino, conoscenze attuali e prospettive future" – Parco del Ticino, Dec 18th-19th 2017.

- Piermattei A, Avanzi C, Leonardi S, Heer K, Opgenoorth L, Urbinati C, Vendramin GG, Büntgen U, Piotti A. Exploring the influence of kinship structure on tree growth performance of *Picea abies*. SISEF Congress – Rome, Oct 10th-13th 2017
- Piotti A, Leonarduzzi C, Postolache D, Leonardi S, Spanu I, Brousseau L, Urbinati C, Vendramin GG. A complex evolutionary history shaped the distribution of genetic variation along the Apennines: the case of *Abies alba* (Mill.). 6th AForGen Meeting – Val Canali, Jun 15th 2017
- Piermattei A, Avanzi C, Leonardi S, Heer K, Opgenoorth L, Urbinati C, Vendramin GG, Büntgen U, Piotti A. Exploring the influence of kinship structure on tree growth performance of *Picea abies*. EuroDendro conference – Tartu, Sep 6th-10th 2017
- Piotti A. Struttura genetica e storia evolutiva delle popolazioni appenniniche di abete bianco, ultime acquisizioni e indicazioni gestionali. Workshop “Boschi e foreste tra conservazione della biodiversità, ecoservizi e produzione di beni nei Parchi Nazionali dell’Appennino” – Sulmona, Jun 13th 2017
- Piotti A, Leonarduzzi C, Postolache D, Leonardi S, Spanu I, Brousseau L, Urbinati C, Vendramin GG. A complex evolutionary history shaped the distribution of genetic variation along the Apennines: the case of *Abies alba* (Mill.). AISSA XIV congress “Le scienze agrarie, alimentari, forestali e ambientali per la valorizzazione delle aree interne” – Campobasso, Feb 16th 2017
- Avanzi C, Piotti A, Spanu I, Piermattei A, Urbinati C, Leonardi S, Vendramin GG. Gene flow and reproductive success along an altitudinal transect in a marginal Norway spruce population. StE-AIOL-LaguNet XIII PhD Meeting – Palermo, May 3rd-5th 2017
- 2016 Piotti A, Avanzi C, Leonardi S, Vendramin GG. Spatial genetic structure and gene flow in Norway spruce along the Campolino altitudinal transect. Workshop “Linking genetic and dendrochronological data at different spatiotemporal scales”. Swiss Federal Institute for Forest, Snow and Landscape Research (WSL) – Birmensdorf, Jan 27th-28th 2016
- Piermattei A, Carrer M, Nola P, Motta R, Brunetti M, Piotti A, Leonarduzzi C, Vendramin GG, Urbinati C. Disentangling the effect of climatic and genetic factors contributing to *Abies alba* tree-ring growth variation along the Italian peninsula. TRACE – Tree Rings in Archaeology, Climatology and Ecology – Białowieża (Poland), May 11th-15th 2016
- Gentilesca T, Piotti A, Labriola M, Spanu I, Moretti N, Borghetti M, Vendramin GG. Risposte adattative del pino d'Aleppo alle variazioni climatiche: evidenze da un approccio che integra dati ecofisiologici e genetici. 11° Congresso Nazionale sulla Biodiversità – Jun 9th-10th 2016
- Vendramin GG, Bagnoli F, Labriola M, Piotti A, Spanu I, Gonzalez Martinez SC. Segnali di adattamento molecolare a diverse scale geografiche in tre conifere mediterranee: *Pinus halepensis*, *Taxus baccata*, *Pinus pinaster*. 11° Congresso Nazionale sulla Biodiversità – Jun 9th-10th 2016
- Piotti A, Pini S, Spanu I, Labriola M, Bagnoli F, De Vivo G, Schettino A, Vendramin GG. Conseguenze genetiche di una distribuzione frammentata: Il caso del pino loricato nel Parco Nazionale del Pollino. 11° Congresso Nazionale sulla Biodiversità – Jun 9th-10th 2016
- Urbinati C, Piermattei A, Carrer M, Nola P, Motta R, Brunetti M, Piotti A, Leonarduzzi C, Vendramin GG. Disentangling the effect of climatic and genetic factors contributing to *Abies alba* tree-ring growth variation along the Italian peninsula. The 15th International Conference on Ecology and Silviculture of Fir – Sapporo, Sep 21th – 24th 2016
- Vendramin GG, Gonzalez-Martinez SC, Grivet D, Ruiz-Daniels R, Bagnoli F, Piotti A, Jaramillo-Correa JP, Lorenzo Z, Budde K, Alia R. Molecular signature of climate adaptation and range expansion in Mediterranean conifers. International Conference: Sustainable development of mountain areas – Experiences, challenges and perspectives. Žabljak, Sep 14th-16th 2016
- Lazarević J, Stojanović I, Spanu I, Piotti A, Bagnoli F, Vendramin GG. Genetic characterization of *Pinus heldreichii* populations from Montenegro. International Conference: Sustainable development of mountain areas – Experiences, challenges and perspectives. Žabljak, Sep 14th-16th 2016
- 2015 Piotti A, Leonarduzzi C, Postolache D, Leonardi S, Spanu I, Brousseau L, Urbinati C, Vendramin GG. A complex evolutionary history shaped the distribution of *Abies alba* (Mill.) genetic variation along the Apennines. SISEF congress “Sostenere il pianeta, boschi per la vita” – Florence, Sep 15th-18th 2015
- Vendramin GG, Bagnoli F, Piotti A, Ruiz Daniels R, Lorenzo Z, Grivet D, González-Martínez SC. First insights into Aleppo pine population genomics. SISEF congress “Sostenere il pianeta, boschi per la vita” – Florence, Sep 15th-18th 2015
- Degen B, Blanc-Jolivet C, Vendramin GG, Piotti A, Burczyk J, Chybicki I, Kramer K. Improved protocols for genetic monitoring of tree populations in Europe. FORGER Stakeholder Meeting – Dublin, Nov 17th-18th 2015
- Vendramin GG, Bagnoli F, Piotti A, Spanu I, Labriola M. Comprehensive assessment of genetic diversity of *Fagus sylvatica*, *Quercus* spp., *Pinus pinaster* and *Picea abies* at scale of the species distribution, along geographic and environmental gradients. FORGER Stakeholder Meeting – Dublin, Nov 17th-18th 2015
- 2014 Piotti A. Caratterizzazione ecologico-strutturale, dendroecologica e genetica delle cenosi con abete bianco (*Abies alba* Mill.) nel Parco Nazionale del Gran Sasso e dei Monti della Laga. Project meeting - Isola del Gran Sasso, Mar 4th 2014
- Postolache D, Leonarduzzi C, Piotti A, Fady B, Vendramin GG. Neutral and adaptive genetic variation in silver fir (*Abies alba* Mill.) populations located in the Southern peripheral species' distribution range. 3rd Workshop of the AForGen network – Fafleralp, Jun 26th-28th 2014
- Piotti A. Le conseguenze genetiche della gestione forestale sulle faggete. Project ‘Foreste e Pascoli della Rete Natura 2000 (ForestPas2000) - Indirizzi di gestione sostenibile in Italia centrale’ meeting – Ancona, Dec 19th 2014
- 2013 Bolpagni A, Piotti A. The importance of being natural: Role of wetland type on the maintenance of riverine vegetation. SESF 8 – Symposium for European Freshwater Sciences – Münster, Jul 1st – 5th 2013

- Vendramin GG, Piotti A. Genetica e conservazione del pino loricato: stato dell'arte e prospettive di ricerca in relazione ai cambiamenti climatici. Workshop "Un laboratorio naturale permanente nel Parco Nazionale del Pollino: premessa conoscitiva per una gestione sostenibile" – Terranova di Pollino, Dec 4th 2013
- 2012 Piotti A, Leonarduzzi C, Leonardi S. Gene flow in forest trees: methods and case studies. National Centre for the Study and the Maintenance of the Forest Biodiversity (CNBF) – Peri (Verona), Mar 1st 2012
- 2009 Rossi V, Piotti A, Benassi G, Menozzi P. Genetic structure of *Limnocythere inopinata* (Crustacea, Ostracoda): a potential case of post-glacial parthenogenesis. III° Meeting degli Ostracologi Italiani – Parma, Feb 9th-10th 2009
- Piotti A, Menozzi P, Leopardi S. Confronto tra le potenzialità di dispersione a lungo raggio di abete bianco e abete rosso in contesti ecologici contrastanti. XIX° SitE Congress "Dalle vette alpine alle profondità marine" – Bolzano, Sep 15th-19th 2009
- Bolpagni R, Piotti A, Viaroli P. Relazioni tra comunità a macrofite e fattori idrologici e morfologici nel tratto di pianura del fiume Oglio: idee per valutazioni di tipo funzionale. XIX° SitE Congress "Dalle vette alpine alle profondità marine" – Bolzano, Sep 15th-19th 2009
- Belletti P, Ferrazzini D, Piotti A, Camerino P, Ducci F. Variabilità genetica in abete bianco e definizione di regioni di provenienza. VII° SISEF Congress "Sviluppo e adattamento, naturalità e conservazione" – Isernia; Sep 29th-Oct 3rd 2009
- 2008 Menozzi P, Leonardi S, Piovani P, Piotti A, Scalfi M, Troggio M, Magnaschi G, Ceroni M. Beech genetic resources in Italy. Workshop and Joint Management Committee/Working Group meeting "Evaluation of beech genetic resources for sustainable forest" (COST action E52) – Florence, Aug 16th-18th 2008
- Piotti A, Leonarduzzi C, Menozzi P, Leonardi S. Riproduzione e dispersione in una popolazione relitta di abete bianco (*Abies alba*, Mill.) nell'Appennino Tosco-Emiliano: implicazioni per la conservazione. XVIII° SitE Congress "Ecologia, Emergenza, Pianificazione" – Parma, Sep 1st-3rd 2008
- 2007 Leonardi S, Piovani P, Piotti A, Scalfi M, Menozzi P. Exploring the within population component of genetic and eco-physiology variability of European beech in Italy. Workshop and Joint Management Committee/Working Group meeting "Ecophysiology of European beech populations and their sensitivity to changes in climate" (COST action E52)- Berlin, May 30th-Jun 1st 2007
- Tomasi M, Piotti A, Rossi V. Adaptive plasticity in metamorphic traits of *Bufo bufo* (Amphibia: Anura) tadpoles: the effect of population density and habitat duration. XVII° SitE Congress "Ecologia, limnologia e oceanografia: quale futuro per l'ambiente?" – Ancona, Sep 17th-20th 2007
- Castracani C, Piotti A, Grasso DA, Mori A. Can ants be suitable ecological indicators in Italian agro-ecosystems? XVII° SitE Congress "Ecologia, limnologia e oceanografia: quale futuro per l'ambiente?" – Ancona, Sep 17th-20th 2007
- Piotti A, Leonardi S, Piovani P, Scalfi M, Menozzi P. Potenzialità di dispersione a lungo raggio in abete rosso. XVII° SitE Congress "Ecologia, limnologia e oceanografia: quale futuro per l'ambiente?" – Ancona, Sep 17th-20th 2007
- 2006 Piotti A, Piovani P, Leonardi S, Menozzi P, Guazzi E, Bartelletti A. Flusso genico in una popolazione relitta di abete bianco sulle Alpi Apuane. XVI° SitE Congress "Cambiamenti globali, diversità ecologica e sostenibilità" – Viterbo, Sep 19th-22nd 2006
- Piovani P, Scalfi M, Piotti A, Menozzi P. Analisi genetica di una popolazione relitta di pino silvestre nell'Appennino Bolognese. XVI° SitE Congress "Cambiamenti globali, diversità ecologica e sostenibilità" – Viterbo, Sep 19th-22nd 2006
- 2005 Piotti A, Piovani P, Scalfi M, Leonardi S, Menozzi P. Modalità di ricolonizzazione dell'abete rosso alla treeline. XV° SitE Congress "Ambiente, risorse e sviluppo" – Turin, Sep 12th-14th 2005
- Piotti A, Piovani P, Scalfi M, Leonardi S, Menozzi P. *Global change* e risalita della *treeline*: conseguenze genetiche della colonizzazione. V° SISEF Congress "Foreste e società: cambiamenti, conflitti, sinergie" – Turin, Sep 27th-30th 2005
- Piovani P, Beggi F, Piotti A, Scalfi M, Leonardi S, Menozzi P. Studio della distribuzione geografica della variabilità adattativa in *Fagus sylvatica*. V° SISEF Congress "Foreste e società: cambiamenti, conflitti, sinergie" – Turin, Sep 27th-30th 2005
- Scalfi M, Leonardi S, Piovani P, Piotti A, Menozzi P. Effetti della frammentazione dell'habitat sulla struttura genetica di alcune popolazioni di faggio (*Fagus sylvatica* L.) dell'Italia centrale. V° SISEF Congress "Foreste e società: cambiamenti, conflitti, sinergie" – Turin, Sep 27th-30th 2005
- 2003 Visicchio R, Piotti A, Mori A, Le Moli F. A biometric analysis of ergatogynes of the slave-making ant *Polyergus rufescens*. X° AISASP Congress - Rome, Jun 11th-13th 2003
- Castracani C, Visicchio R, Piotti A, Mori A, Le Moli F. Analysis of correlation between morphometrics and male mating-success in the slave-making ant *Polyergus rufescens* (Hymenoptera, Formicidae) X° AISASP Congress - Rome, Jun 11th-13th 2003

Conference posters

- 2022 Avanzi C, Pericolo O, Assini S, Bagnoli F, Barcella M, Borghetti M, Bracco F, Castellaneta M, Marchi M, Pinosio S, Rodolfi M, Romiti E, Storch T, Vendramin GG, Piotti A, Ripullone F, Nola P. Alle radici del deperimento della farnia nei boschi planiziali lombardi: un progetto multidisciplinare per la selezione di risorse genetiche resistenti. *Alberi-Foreste-Biodiversità: dal New Green Deal alla Farm to Fork Strategy*. SISEF Congress – Orvieto, Feb 20th-23th 2022
- 2019 Piermattei A, von Arx G, Avanzi C, Fonti P, Gärtner H, Piotti A, Urbanati C, Vendramin GG, Büntgen U, Crivellaro A. Inter-annual and inter-individual wood anatomical trait variation in *Picea abies*. 4th Xilem International Meeting - Padua, September 25th-27th 2019.

- Carrer M, Piotti A, Prendin AL, Mahojan B, Piovani P, Leonardi S. Linking leaf phenology with xylem anatomical traits to better understand *Fagus sylvatica* L. responses to climate variability. TRACE Congress – Caserta, May 7th-10th 2019
- 2018 Lazarević J, Spanu I, Piotti A, Menkis A, Horacek M, Topalović A, Stojanović I, Bagnoli F, Vendramin GG. *Pinus peuce* and its habitats in Montenegro. 48th Annual Meeting of the Ecological Society of Germany, Austria and Switzerland – Vienna, Sep 10th-14th 2018
- Carrer M, Piotti A, Prendin AL, Mahojan B, Piovani P, Leonardi S. Linking leaf phenology with xylem anatomical traits to better understand *Fagus sylvatica* L. responses to climate variability. IUFRO 11th International Beech Symposium – Viterbo, Sep 18th-21st 2018
- 2017 Heer K, Behringer D, Piermattei A, Bässler C, Fady B, Jehl H, Liepelt S, Lorch S, Piotti A, Vendramin GG, Weller M, Ziegenhagen B, Büntgen U, Opgenoorth L. Linking dendroecology and association genetics: Stress responses archived in tree rings associate with SNP genotypes in *Abies alba* (Mill.). Symposium "Detecting the Genomic Signal of Polygenic Adaptation and the Role of Epistasis in Evolution" – Zürich Aug 31st – Sep 1st.
- Ribeiro MM, Gaspar D, Piotti A, Spanu I, Costa R, Vendramin GG. Pollen and seed gene flow in strawberry tree. 125th IUFRO Anniversary Congress – Freiburg 19-22 September 2017.
- 2016 Piotti A, Leonarduzzi C, Postolache D, Bagnoli F, Spanu I, Brousseau L, Urbinati C, Leonardi S, Vendramin GG. A complex evolutionary history shaped the distribution of *Abies alba* (Mill.) genetic variation along the Apennines. The 15th International Conference on Ecology and Silviculture of Fir – Sapporo, September 21th – 24th 2016.
- Avanzi C, Piotti A, Spanu I, Piermattei A, Urbinati C, Leonardi S, Vendramin GG. Gene flow and reproductive success along an altitudinal transect in a marginal Norway spruce population. I Congresso Nazionale congiunto SItE-UZI-SiB "Biodiversity: concepts, new tools and future challenges" – Milan, August 30th – September 2nd 2016.
- Piermattei A, Carrer M, Nola P, Motta R, Brunetti M, Piotti A, Leonarduzzi C, Vendramin GG, Urbinati C. Disentangling the effect of climatic and genetic factors contributing to *Abies alba* tree-ring growth variation along the Italian peninsula. Ameridendro 2016 – Third American Dendrochronology Conference – Mendoza, March 28th – April 1st 2016.
- Labriola M, Piotti A, Spanu I, Bagnoli F, Gentilesca T, Moretti N, Borghetti M, Vendramin GG. Studio del flusso genico in due popolazioni di *Pinus halepensis* Mill. 11^o Congresso Nazionale sulla Biodiversità – Matera, June 9th-10th 2016.
- Piotti A, Leonarduzzi C, Postolache D, Bagnoli F, Spanu I, Brousseau L, Urbinati C, Leonardi S, Vendramin GG. A complex evolutionary history shaped the distribution of *Abies alba* (Mill.) genetic variation along the Apennines. IUFRO Genomics and Forest Tree Genetics Conference – Bordeaux, May 30th -June 2nd 2016.
- Chybicki IJ, Piotti A, Vendramin GG, Blanc-Jolivet C, Degen B, Jankowska Wroblewska S, Chmielewski M, Kramer K, Burczyk J. Comparative analysis of gene dispersal based on SSR and SNP markers. IUFRO Genomics and Forest Tree Genetics Conference – Bordeaux, May 30th -June 2nd 2016.
- 2015 Ribeiro MM, Piotti A, Ricardo A, Gaspar D, Costa R, Vendramin GG. How history and demography affected the *Arbutus unedo* populations' genetic structure. IUFRO Tree Biotechnology Conference – Florence 8-12 June 2015.
- Avanzi C, Piotti A, Leonardi S, Leonarduzzi S, Spanu I, Gallucci V, Urbinati C, Vendramin GG. Spatio-temporal gene flow patterns along an altitudinal transect in a marginal Norway spruce population from northern Apennines. IUFRO Tree Biotechnology Conference – Florence 8-12 June 2015 & SISEF congress "Sostenere il pianeta, boschi per la vita" – Florence, September 15th - 18th 2015.
- Leonarduzzi C, Piotti A, Spanu I, Vendramin GG. Contemporary seed- and pollen-mediated gene flow in an altitudinal transect of silver fir (*Abies alba* Mill.) in a fragmented area in Central Apennine. IUFRO Tree Biotechnology Conference – Florence 8-12 June 2015 & SISEF congress "Sostenere il pianeta, boschi per la vita" – Florence, September 15th - 18th 2015.
- Labriola M, Piotti A, Spanu I, Gentilesca T, Leonarduzzi C, Moretti N, Misano G, Borghetti M, Vendramin GG. Exploring adaptive responses to change in environmental conditions in *Pinus halepensis* Mill. IUFRO Tree Biotechnology Conference – Florence 8-12 June 2015 & SISEF congress "Sostenere il pianeta, boschi per la vita" – Florence, September 15th - 18th 2015.
- Piotti A, Pini S, Bagnoli F, Spanu I, Schettino A, De Vivo G, Ballian D, Vendramin GG. Conservation genetics of *Pinus heldreichii* var. *leucodermis* disjunct populations in the Pollino National Park (southern Italy). IUFRO Tree Biotechnology Conference – Florence 8-12 June 2015 & SISEF congress "Sostenere il pianeta, boschi per la vita" – Florence, September 15th - 18th 2015.
- Urbinati C, Gallucci V, Piermattei A, Garbarino M, Leonarduzzi C, Piotti A, Vendramin GG. Assessing growth dynamics and climate sensitivity of silver fir as a support for active management of mixed beech forests in central Apennines. SISEF congress "Sostenere il pianeta, boschi per la vita" – Florence, September 15th - 18th 2015.
- 2012 Piotti A, Leonardi S, Leonarduzzi C, Bertolasi B, Zago L, Goran F, Vanetti I, Binelli G. A tale of two species: genetic structure and gene flow patterns in an *Ulmus minor* / *U. pumila* complex. XII Congresso FISV – Rome, 24-27 September 2012.
- 2010 Colli L, Negrini R, Leonardi S, Piotti A, Lucente G, Bomba L, M. Pellecchia, Ajmone-Marsan P, and IntraBioDiv Consortium. Il progetto IntraBioDiv: la variabilità genetica delle piante alpine come indicatore della biodiversità intraspecifica. BIOD Coltivare la biodiversità. Agricoltura, foreste e territorio: conservare, innovare, pianificare – Milan, 10-11 June 2010.
- 2006 Piotti A, Piovani P, Leonardi S, Menozzi P, Bartelletti A, Guazzi E. Flusso genico in una popolazione relitta di *Abies alba* Miller sulle Alpi Apuane. XXXVI Congresso SIB "Biogeografia dell'Appennino centrale e settentrionale: trenta anni dopo" – L'Aquila, 6-9 September 2006.
- 2005 Piotti A, Piovani P, Scalfi M, Leonardi S, Menozzi P. Genetics of colonization in a treeline ecotone in the Alps. International

Workshop - The role of biotechnology for the characterisation and conservation of crop, forestry, animal and fishery genetic resources. 5-7 March 2005, Turin;

Scalfi M, Piovani P, Piotti A, Leonardi S, Menozzi P. Effect of habitat fragmentation on genetic structure of beech population of central Italy. International Workshop - The role of biotechnology for the characterisation and conservation of crop, forestry, animal and fishery genetic resources. 5-7 March 2005, Turin;

Piotti A, Beggi F, Piovani P, Scalfi M, Leonardi S, Menozzi P. Studio della variabilità adattativa negli stadi giovanili di faggio. XV° Congresso SItE "Ambiente, risorse e sviluppo" - Torino, 12-14 September 2005;

Rossi V, Benassi G, Ascione M, Piotti A, Menozzi P. Clonal diversity of *Heterocypris incongruens* (Crustacea: Ostracoda) in Northern Italy ricefields. PARThenogenesis NETwoRk (PARTNER), 2002-2005 – Londra, 22-24 September 2005;

Teaching and Seminars

- 2022 Seminar "Indagini genetiche per la gestione e conservazione delle risorse forestali: il caso dell'abete bianco" invited by Michele Carbognani, course Conservation Ecology - University of Parma
- 2021 Seminar "Indagini genetiche per la gestione e conservazione delle risorse forestali: il caso dell'abete bianco" invited by Michele Carbognani, course Conservation Ecology - University of Parma
- 2017 Webinar "Dissecting the role of demography and selection in Mediterranean forest trees: the demographic history of silver fir" invited by Andreia Turchetto Zolet and Nicole Veto - Universidade Federal do Rio Grande do Sul, Porto Alegre
- 2016 Seminar "*Landscape genetics* per la conservazione del paesaggio forestale" invited by Roberto Papa and Matteo Garbarino – Marche Polytechnic University.
- Seminar "Gestire e conservare le risorse genetiche forestali ricostruendone le dinamiche evolutive passate e presenti" invited by Gianluca Piovesan and Alfredo Di Filippo – University of Tuscia-Viterbo.
- Mini-course "R graphics" (3h) for PhD students at the Bioscience Dept.- University of Parma.
- 2015 Teaching assistant during the course "Analisi di dati ecologici – Abilità informatiche", SSD: SECS-S/02, TAF: B, LM Ecologia e Conservazione della Natura, University of Parma.
- Seminar "Gestire le risorse genetiche forestali ricostruendo le dinamiche evolutive passate e presenti" invited by Elena Bitocchi – Marche Polytechnic University.
- 2014 Integrative course "Applicazioni pratiche di pacchetti grafici e statistici all'analisi di dati ecologici", course "Analisi di dati ecologici – Abilità informatiche", SSD: SECS-S/02, TAF: B, 9 hrs, LM Ecologia e Conservazione della Natura, University of Parma.
- Integrative course "Uso di simulazioni in biologia di popolazioni", course "Biologia di popolazioni", SSD: BIO/07, TAF: B, 9 hrs, LM Ecologia e Conservazione della Natura, University of Parma.
- Integrative course "Metodi numerici di stima dei parametri di un modello", course "Modellistica ambientale", SSD: AGR/01, TAF: C, 9 hrs, LM Ecologia e Conservazione della Natura, University of Parma.
- Seminar "Gene flow and local adaptation along ecological gradients: local gradients experiments (LGEs)", invited by Marco Borghetti - University of Basilicata.
- 2013 Mini-course "R graphics" (6h) for PhD students at the Bioscience Dept.- University of Parma.
- 2012 Lessons "R graphics", R for Ecologists Class, Prof. Stefano Leonardi – University of Parma.
- 2011 Teaching assistant during the course "Statistics with R" by Stefano Leonardi (3 weeks) at IRSA Brugherio (MB).
- Lesson "R graphics" (6h) during the course "Statistics with R" by Stefano Leonardi at IRSA Brugherio (MB).
- 2007 Seminar "Studio del flusso genico in abete rosso (*Picea abies*, Karst.): genetica della colonizzazione oltre la treeline" (Gene flow in Norway spruce: colonization genetics at treeline) for Ecology PhD students, University of Parma.
- 2005 Seminar "Genetica della colonizzazione. Origine della rinnovazione di abete rosso alla treeline nella Catena dei Lagorai (Trento)" (Colonization genetics. Origin of Norway spruce juveniles at treeline) for Plant Biology PhD students, University of Parma.
- 2004 Lessons "Lo studio del flusso genico" (The study of gene flow), Plant Ecology Class, Prof. Stefano Leonardi – University of Parma.
- 2007

Short-term visits

2019	Biotechnical Faculty @ University of Montenegro – Dr. Jelena Lazarević	1 week
2018	Biotechnical Faculty @ University of Montenegro – Dr. Jelena Lazarević	1 week
2017	Bavarian Forest National Park – field activities in collaboration with Philipps-University Marburg	1 week
	Biotechnical Faculty @ University of Montenegro – Dr. Jelena Lazarević	1 week
2016	Biotechnical Faculty @ University of Montenegro – Dr. Jelena Lazarević	1 week

2015	Dept. of Agricultural, Food and Environmental Sciences @ UNIVPM – Prof. Carlo Urbinati	1 week
2014	Réserve Naturelle de l'Etang du Cousseau & Forêt Domaniale de Campet – FORGER activities in collaboration with INRA-Pierroton	1 week
2013	Tara Mountains National Park & University of Belgrade – Dott. J Aleksic	2 weeks
2012	Institute of Geology @ University of La Coruna – Dott. GG Fortes	1 week
2008	Plant Genetics Institute @ CNR Florence – Dott. GG Vendramin	2 weeks
2005	AGROSELVITER @ University of Turin – Prof. Renzo Motta	2 weeks

Mentoring

2020-ongoing	Silvio Oggioni "Adaptation to drought of Italian silver fir genotypes with a view to climate change" Tutor: Giorgio Vacchiano. Cotutor: Andrea Piotti., <u>PhD in Forest Science</u> – Univ Milan
2020-2021	Edoardo Romiti "Genetic characterization of forest genetic resources of <i>Quercus robur</i> L. in Italy" Supervisor: Stefano Biricolti, Co-supervisors: Camilla Avanzi, Francesca Bagnoli, Andrea Piotti. MSc degree in Biotechnology. University of Florence
2018-2019	Francesco Belli "Genetic characterization of two populations of English yew (<i>Taxus baccata</i> L.) of Marche region" Supervisor: Elena Bitocchi. Co-supervisors: Carlo Urbinati, Andrea Piotti, MSc degree in Forest Science. Marche Polytechnic University
2015-2018	Camilla Avanzi "Population genetics meets dendrochronology: joint approaches to the exploration of growth and reproductive success in Norway spruce" Tutor: Stefano Leonardi. Cotutor: Andrea Piotti., <u>PhD in Ecology</u> – Univ Ferrara
2016-2017	Giada Centenaro "Age and growth rates in three genets of <i>Salix herbacea</i> from the N-Appennines". Supervisor: Alan Crivellaro. Co-supervisors: Andrea Piotti, Michele Carbognani, Alessandro Petraglia. MSc degree in Forest Science. Univ Padua
2015-2016	Filippo Santini "Caratteristiche genetiche di popolazioni relitte di abete bianco nell'Appennino Centrale". Advisor: Stefano Leonardi. Co-advisor: Andrea Piotti. MS degree in Ecology – Univ Parma
2014-2015	Sebastiano Pini "Storia evolutiva dei nuclei di pino loricato del Parco Nazionale del Pollino: conseguenze genetiche di una distribuzione frammentata". Advisor: Stefano Leonardi. Co-advisor: Andrea Piotti. MS degree in Ecology – Univ Parma
2014-2015	Laura Pasini "Caratteristiche genetiche dei nuclei relitti di <i>Salix herbacea</i> dell'Appennino settentrionale". Advisor: Marcello Tomaselli. Co-advisors: Stefano Leonardi, Alessandro Petraglia, Michele Carbognani, Andrea Piotti. MS degree in Ecology – Univ Parma
2013-2014	Camilla Avanzi "Struttura genetica spazio-temporale e flusso genico in una popolazione di abete rosso lungo un transetto altitudinale". Advisor: Stefano Leonardi. Co-advisors: Andrea Piotti. MS degree in Ecology – Univ Parma
2013-2014	Elena Bianchi "Conseguenze genetiche della frammentazione: il caso dell'abete bianco (<i>Abies alba</i> Mill.) nel Parco del Gran Sasso - Monti della Laga". Advisor: Stefano Leonardi. Co-advisors: Andrea Piotti, Cristina Leonarduzzi. MS degree in Ecology – Univ Parma
2011-2012	Elia Vajana "Influenza degli schemi di campionamento sulle stime del flusso genico diretto: un approccio basato su simulazioni" Advisor: Stefano Leonardi. Co-advisor: Andrea Piotti. MS degree in Ecology – Univ Parma
2009-2010	Maurizio Bagnara "Studio e modellizzazione degli effetti di temperatura e ombreggiamento sulla fenologia fogliare nel faggio (<i>Fagus sylvatica</i> L.)" Advisor: Stefano Leonardi. Co-advisor: Andrea Piotti. MS degree in Ecology – Univ Parma
2011-2014	Cristina Leonarduzzi "Molecular tools, optimal sampling strategies and biogeographical investigation to study adaptive gene flow in forest trees" Tutor: Stefano Leonardi. Cotutor: Andrea Piotti. <u>PhD in Ecology</u> – Univ Parma
2008-2009	Elia Vajana "Analisi del flusso genico in faggio (<i>Fagus sylvatica</i> L.): confronto fra popolazioni naturali e gestite" Advisor: Stefano Leonardi. Co-advisor: Andrea Piotti. Bachelor degree in Ecology – Univ Parma
2007-2008	Francesco Campani "Studio della relazione tra morfologia e fenologia fogliare nel 2007 in una popolazione di faggio dell'Appennino Tosco-Emiliano" Advisor: Stefano Leonardi. Co-advisors: Andrea Piotti e Paolo Piovani., Bachelor degree in Ecology – Univ Parma
2007-2008	Cristina Leonarduzzi "Studio del flusso genico in una popolazione relitta di abete bianco (<i>Abies alba</i> , Mill.)". Advisor: Stefano Leonardi. Co-advisor: Andrea Piotti. MS degree in Ecology – Univ Parma
2006-2007	Mark Tomasi "Adaptive plasticity and bet-hedging in <i>Bufo bufo</i> (Amphibia: Anura) tadpoles in response to habitat dessication" Advisor: Valeria Rossi. Co-advisors: Andrea Piotti. Bachelor degree in Ecology – Univ Parma
2006-2007	Maurizio Bagnara "Studio della relazione tra genetica e fenologia fogliare in un incrocio controllato di <i>Fagus sylvatica</i> , utilizzato per un rimboschimento con materiale autoctono nel Parco Nazionale dell'Appennino Tosco-emiliano" Advisor: Stefano Leonardi. Co-advisor: Andrea Piotti. Bachelor degree in Ecology – Univ Parma
2004-2005	Beggi Francesca "Analisi di tratti adattativi in plantule di faggio (<i>Fagus sylvatica</i>) provenienti da cinque popolazioni italiane" Advisor: Stefano Leonardi. Co-advisors: Paolo Piovani and Andrea Piotti. Bachelor degree in Ecology – Univ

Popular science

- 2021 “Gestione delle abetine dell’Appennino Settentrionale – indicazioni emerse da indagini genetiche”, on-line talk for forest managers in the area of the Appennino Tosco-Emiliano National Park, organized by Parco Nazionale dell’Appennino Tosco-Emiliano
 Contribution to the 1st Regional Living Lab of the Project SUSTAINadapt, Sardinia Region
 “Il tesoro genetico delle conifere nell’Appennino Tosco-Emiliano”, on-line talk for the initiative “Le Foreste in tempo di crisi climatica ed ecologica” organized by CAI Toscana
 “Relitti tra i ghiacci” Guided field trip with UTB Pistoia in the Campolino Natural Reserve
 Speech for the on-line event “20 anni di collaborazioni per la conservazione della natura” organized by Parco Nazionale dell’Appennino Tosco-Emiliano
 Interview with Monica Guerci – Il Giorno “Ricercatori nei boschi: ‘Salviamo le querce’”
[\[https://www.ilgiorno.it/milano/cronaca/ricercatori-nei-boschi-salviamo-le-querce-1.6426103\]](https://www.ilgiorno.it/milano/cronaca/ricercatori-nei-boschi-salviamo-le-querce-1.6426103)
 Contribution to SISEF News “Conservare il potenziale adattativo delle foreste europee: al via il progetto FORGENIUS”
[\[https://sisef.org/2021/05/18/conservare-il-potenziale-adattativo-delle-foreste-europee-al-via-il-progetto-forgenius/\]](https://sisef.org/2021/05/18/conservare-il-potenziale-adattativo-delle-foreste-europee-al-via-il-progetto-forgenius/)
 Speech for the on-line event “Presentazione della mappa delle collaborazioni per i 20 del Parco Nazionale dell’Appennino Tosco-Emiliano” organized by Parco Nazionale dell’Appennino Tosco-Emiliano
 Interview with Margherita Agata - L’ultima foresta incantata project blog “Bosco Pantano nelle mappe EUFGIS”
[\[https://www.esperienzeconilsud.it/ultimaforestaincantata/2021/05/06/bosco-pantano-nella-mappa-eufgis/\]](https://www.esperienzeconilsud.it/ultimaforestaincantata/2021/05/06/bosco-pantano-nella-mappa-eufgis/)
 Speech for the on-line event “Sui sentieri delle foreste che curano”, book launch of “Terapia forestale”, CAI Parma
 Interview with Antonio Rinaldi – L’Orsaro: “La resilienza delle nostre foreste”
 Interview with Cinzia Toto – Gardenia “Il mistero delle farnie deperienti”
 Interview with Willy Reggioni – Parco Nazionale dell’Appennino Tosco-Emiliano for the Web TV Program “Occhio alla Scienza”
- 2020 “Relitti tra i ghiacci” Guided field trip with UTB Pistoia in the Campolino Natural Reserve
 Contribution to the public consultation for the draft of the National Forest Strategy
[\[https://www.politicheagricole.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/15339\]](https://www.politicheagricole.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/15339)
- 2019 Interview with Alun Salt - Botany One “The mountains are getting warmer, and willow colonies are shrinking”
[\[https://www.botany.one/2019/11/the-mountains-are-getting-warmer-and-willow-colonies-are-shrinking/\]](https://www.botany.one/2019/11/the-mountains-are-getting-warmer-and-willow-colonies-are-shrinking/)
 CNR Manager for the blog of the Project “L’ultima foresta incantata”
[\[https://www.esperienzeconilsud.it/ultimaforestaincantata/\]](https://www.esperienzeconilsud.it/ultimaforestaincantata/)
- 2017 Interview with BokaNews: “Naučnici na Orjenu istraživali” about our field activities at Mt. Orjen
 on-line version [\[http://bit.ly/2t6eFI9\]](http://bit.ly/2t6eFI9)
 Interview with Antonio Rinaldi – Gazzetta di Parma: “L’affascinante storia millenaria dell’abete bianco dell’Appennino”
 On-line version [\[http://bit.ly/2oyfoqi\]](http://bit.ly/2oyfoqi) PDF version [\[http://bit.ly/2t6Zhot\]](http://bit.ly/2t6Zhot)
 Contribution to the GenTree project on-line news: “20,000 km across Italy to collect tree samples”
 On-line version [\[http://bit.ly/2lrdtUT\]](http://bit.ly/2lrdtUT)
- 2016 Interview with Valentino Straser – Gazzetta di Parma: “Pini di 10mila anni fa sveleranno il nostro passato”
 On-line version [\[http://bit.ly/1OtXUzx\]](http://bit.ly/1OtXUzx) PDF version []
- 2015 Started tweeting about his research activities
<https://twitter.com/AndrePi19>
- 2015 Participated with Vendramin lab members to the RAI TV show *Nautilus* “Mille anni in foresta”
 from min 17:45 at <http://bit.ly/2oGYK7n>
- 2014 Contribution to BioGenRes (Italian Network of Genetic Resources)’s Biodiversity Success Stories together with Giovanni Giuseppe Vendramin: “Forest genetic resources: a model for studying climatic change”
 On-line version [\[http://bit.ly/2FbICpT\]](http://bit.ly/2FbICpT)

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Paolo Andre