FORMATO EUROPEO PER IL CURRICULUM VITAE

INFORMAZIONI PERSONALI


**Nome** **GIARDINA EMILIANO**
**GRDMLN76D16H501E**

**Indirizzo** Università degli Studi di Roma "Tor Vergata" - Facoltà di Medicina e Chirurgia, Dipartimento di Biomedicina e Prevenzione, via Montpellier, 1, 00133 Roma
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**Nazionalità** Italiana

**Data e luogo di nascita** ROMA, 16/04/1976

**Titolo attuale** Professore Associato in Genetica Medica

ESPERIENZA LAVORATIVA
Data (2001- 2025)

- Direttore dellla UOC di Diagnostica di Laboratorio e Genomica Medica presso l'Istituto Fondazione Santa Lucia di Roma
- Coordina la Piattaforma di Genomica della Rete degli Istituti IRCCS di Neuroscienze istituita dal Ministero della Salute
- Direttore del Laboratorio di Genetica Forense dell'Università degli Studi di Roma "Tor Vergata"
- Membro titolare del tavolo permanente interforze ed interdisciplinare a supporto della Banca dati Nazionale del DNA
- Coordinatore nazionale del Gruppo di Lavoro per la Genetica Forense istituito dalla SIGU (Società Italiana di Genetica Forense)
- Coordinatore del Master di secondo livello in Genetica Forense attivato presso l'Università di Roma "Tor Vergata"

ATTIVITÀ SCIENTIFICA

- Componente del nucleo di ricerca afferente al "Centro di Eccellenza per lo Studio del Rischio Genomico in Patologie Complesse Multifattoriali" istituito dal MIUR (Ministero dell'Istruzione, dell'Università e della Ricerca) presso la facoltà di Medicina e Chirurgia dell'Università "Tor Vergata" di Roma;

ATTIVITÀ DIDATTICA

- Insegna Genetica Medica per il corso di Laurea Specialistica di Biotecnologie Mediche presso l'Università degli studi di Roma "Tor Vergata"
- Insegna Genetica Medica II per il corso di Laurea Specialistica di Biologia ed Evoluzione Umana presso l'Università degli studi di Roma "Tor Vergata"
- Insegna Genetica Medica per il corso di Laurea in Biotecnologie istituito dalla Facoltà di Scienze Matematiche Fisiche e Naturali di Urbino
- Insegna Genetica Oculare per la scuola di Specializzazione di Oftalmologia istituita presso l'Università degli studi di Roma "Tor Vergata"
- Insegna Genetica Medica per la scuola di Specializzazione di Nefrologia istituita presso l'Università degli studi di Roma "Tor Vergata"
- Insegna Genetica Forense per il corso di Laurea in Biotecnologie istituito dalla facoltà di Scienze Matematiche Fisiche e Naturali dell'Università di Urbino
  Insegna Genetica Forense per il corso di Laurea in Biotecnologie istituito dalla
  Insegna Genetica Forense per il corso di laurea in scienze biologiche
- dell'Università degli Studi di Roma Tre
- È coordinatore del Master di secondo livello in genetica forense, istituito presso l'Università degli Studi di Roma "Tor Vergata"
- Insegna genetica forense nel Master Universitario di II livello in Genetica Forense istituito presso l'Università degli studi di Roma "Tor Vergata"
- È docente del dottorato di Tecnologie Avanzate in Biomedicina istituito presso l'Università degli studi di Roma "Tor Vergata"
- Organizza costantemente eventi di divulgazione scientifica nell'ambito della genetica forense e della diagnosi prenatale
- È autore di un libro di testo ad uso universitario "Genetica Medica Pratica" (ed. Aracne)
- È autore di diversi capitoli libri

ATTIVITÀ ASSISTENZIALE

- È direttore della UOC di Medicina Genomica e Diagnostica di Laboratorio della Fondazione Santa Lucia IRCCS

## *ISTRUZIONE E FORMAZIONE*

*Date (2000 – 2019)*

2025: Idoneo alla selezione per l'ammissione al Master Universitario di II Livello in Organizzazione e Gestione delle Aziende e dei Servizi Sanitari – profilo executive – Università Cattolica del Sacro Cuore, Roma
2022: Vincitore del concorso di ammissione alla Scuola di Specializzazione in Biochimica Clinica e Patologia Clinica presso Università dell'insubria.
2017: consegue l'abilitazione scientifica nazionale per la fascia di professore ordinario per il settore MED/03 Genetica Medica.
2016: chiamato dalla facoltà di Medicina e Chirurgia per il ruolo di Professore Associato per il settore scientifico disciplinare MED/03 Genetica Medica.
2014: consegue l'abilitazione scientifica nazionale per la fascia di professore associato per il settore MED/03 Genetica Medica.
2013: E' designato quale membro titolare del tavolo permanente interforze ed interdisciplinare a supporto della Banca dati Nazionale del DNA.
2013: E' direttore del Laboratorio di Genetica Molecolare UILDM sito presso l'Istituto Fondazione Santa Lucia di Roma.
2013: E' responsabile del Laboratorio di Genetica Forense dell'Università degli Studi di Roma "Tor Vergata".
2013: E' direttore e fondatore della Scuola Permanente di Biologia Forense istituita presso l'Università degli Studi di Roma "Tor Vergata" e finanziata dall'Ordine Nazionale dei Biologi.
2012: E' responsabile per la Biologia Forense presso l'Ordine Nazionale dei Biologi.
2012: E' coordinatore nazionale del Gruppo di Lavoro per la Genetica Forense istituito dalla SIGU (Società Italiana di Genetica Forense).
2011: co-direttore del Master di secondo livello di Genetica Forense attivato presso l'Università di Roma "Tor Vergata".
2010: Diploma di Specializzazione in genetica medica presso la scuola di specializzazione di genetica medica dell'università di Roma Tor Vergata.
2009: riceve il premio "cavalierato giovanile" quale giovane di talento per i contributi scientifici offerti nel campo della genetica medica.
2006: consegue il titolo di dottore di ricerca in fisiopatologia della morte cellulare.
2004: co-responsabile dell'attività di unità di ricerca nell'ambito di un finanziamento Europeo finalizzato alla realizzazione di sistemi innovativi di identificazione personale e tipizzazione di tracce biologiche ad uso forense.
2004: risulta vincitore di concorso per 1 posto di ricercatore universitario per il settore scientifico disciplinare MED/03
2001-oggi: responsabile delle analisi di genetica forense svolte dalla sezione di Genetica dell'Università degli Studi di Roma "Tor Vergata".
2000: consegue il diploma di Laurea in Scienze Biologiche (110 su 110 e lode) relatore Prof.ssa Caterina Tanzarella; correlatore il professor Giuseppe Novelli.

*• Nome e tipo di istituto di istruzione o formazione*

*Università degli studi di Roma "Tor Vergata" e "Roma Tre"*

*• Principali materie / abilità professionali oggetto dello studio*

*Medicina Genomica, Genetica Medica, Diagnosi Prenatale, Genetica forense*

## CAPACITÀ E COMPETENZE PERSONALI

MADRELINGUA — **ITALIANO**

**ALTRE LINGUA**

**INGLESE**

| | |
|---|---|
| *• Capacità di lettura* | BUONO |
| *• Capacità di scrittura* | BUONO |
| • Capacità di espressione orale | BUONO |

## CAPACITÀ E COMPETENZE RELAZIONALI

OTTIME CAPACITÀ RELAZIONALI ACQUISITE DURANTE IL PERCORSO DI FORMAZIONE

CAPACITÀ E COMPETENZE ORGANIZZATIVE

OTTIME CAPACITÀ ORGANIZZATIVE ACQUISITE GRAZIE ALLA GESTIONE DI PERSONE, PROGETTI E BILANCI

CAPACITÀ E COMPETENZE TECNICHE

OTTIME CAPACITÀ NELL'UTILIZZO DI COMPUTER ED ATTREZZATURE SPECIFICHE.
CONOSCENZA DI TUTTI I PROTOCOLLI APPLICATI ED UTILIZZATI DURANTE IL PERCORSO LAVORATIVO

**PATENTE O PATENTI**

ULTERIORI INFORMAZIONI

Patente di guida B

Pubblicazioni scientifiche su riviste internazionali e nazionali, comunicazioni a congressi, monografie e capitoli di libri
Parametri bibliometrici (google scholar): Totale numero di pubblicazioni internazionali: 192
H index: 43
Numero di citazioni: 8324

AUTODICHIARAZIONE SUL CONFLITTO DI INTERESSI ECM
Il sottoscritto, consapevole che il "conflitto d'interessi E.C.M." è ogni situazione nella quale un interesse secondario interferisce o potrebbe interferire con l'interesse primario consistente nell'obiettività, imparzialità e indipendenza della formazione professionale nel settore della salute connessa al Programma di Educazione Continua in Medicina (E.C.M.),
DICHIARA
l'assenza di interessi commerciali in ambito sanitario negli ultimi due anni dalla data di sottoscrizione del presente curriculum.

Firma: _____
Roma, 8 gennaio 2026 Prof. Emiliano Giardina

**PUBBLICAZIONI SU RIVISTE INTERNAZIONALI**


1. Capon F, Tacconelli A, Giardina E, Sciacchitano S, Bruno R, Trischitta V, Tassi V, Filetti S, Dallapiccola B, Novelli G. Mapping a dominant form of multinodular goiter to chromosome Xp22. Am J Hum Genet. 2000 Oct;67(4):1004-7.

2. Giardina E, Capon F, D'Apice MR, Amati F, Arturi F, Filetti S, Bonifazi E, Pucci S, Conte C, Novelli G. Mutational analysis of Peroxiredoxin IV: exclusion of a positional candidate for multinodular goitre. BMC Medical Genetics 2002, 23 July, 3:5.

3. Semprini S, Capon F, Tacconelli A, Giardina E, Orecchia A, Mingarelli R, Gobello T, Zambruno G, Botta A, Fabrizi G, Novelli G. Evidence for differential S100 gene over-expression in psoriatic patients from genetically heterogeneous pedigrees. Hum Genet. 2002 Oct;111(4-5):310-3

4. Borgiani P, Vallo L, D'Apice MR, Giardina E, Pucci S, Capon F, Nistic S, Chimenti S, Pallone F, Novelli G. Exclusion of CARD15/NOD2 as a candidate susceptibility gene to psoriasis in the Italian population. Eur J Dermatol. 2002 Nov-Dec;12(6): 540-2

5. Novelli G, Borgiani P, Giardina E, Mango R, Contino G, Romeo F, Mehta JL. Role of genetics in prevention of coronary atherosclerosis. Curr Opin Cardiol. 2003 Sep;18(5):368-371.

6. Mango R,Clementi F, Borgiani P, Forleo GB, Federici M, Contino G, Giardina E, Garza L, Fahdi IE, Lauro R, Mehta JL, Novelli G, Romeo F. Association of single nucleotide polymorphisms in the oxidised LDL receptor 1(OLR1) gene in patients with acute myocardial infarction. J Med Genet. 2003 Dec;40(12):933-6.

7. Novelli, G., Giardina, E., Paradisi, M., Pedicelli, C., Girolomoni, G., Nasorri, F., et al. (2003). Insight into genetics of atopic dermatitis: Future approaches and directions. Journal of Investigative Dermatology, 121(5), 1265-1265.

8. E. Giardina, F. Capon, MC. DE Rosa, R. Mango, G. Zambruno, A. Orecchia, S. Chimenti,B. Giardina ,G. Novelli. Characterization of the Loricrin (LOR) Gene as a Positional Candidate for the PSORS4 Psoriasis Susceptibility locus. Ann Hum Genet. 2004 Nov;68(Pt 6):639-45

9. E. Giardina, G. Novelli, A. Costanzo, S. Nistico`, C. Bulli, C. Sinibaldi, M.L. Sorgi, S. Chimenti, F. Pallone, E. Taccari, P. Borgiani. Psoriatic Arthritis and CARD15 Gene Polymorphisms: No Evidence for Association in the Italian Population. J Invest Dermatol 2004 May;122(5):1106-7

10. E. Giardina, C. Sinibaldi, G. Novelli. The Psoriasis Genetics as a Model of Complex Disease. Curr Drug Targets Inflamm Allergy, 2004, 3, 129-136. Jun;3(2):129-36.

11. Emanuela Bonifazi, Laura Vallo, Emiliano Giardina, Annalisa Botta and Giuseppe Novelli. A Long PCR-Based Molecular Protocol for Detecting Normal and Expanded ZNF9 Alleles in Myotonic Dystrophy Type 2. Diagn Mol Pathos, 2004 Sep;13(3):164-166.

12. Giuseppe Novelli, Emiliano Giardina. The Genetics of Psoriasis. In Recent Research Developments in Genetics; Research Signpost, T. C. 37/661(2), Fort Post Office, Trivandrum - 695023, Kerala, India.

13. Sangiuolo F, Filareto A, Giardina E, Nardone AM, Pilu G, Pietropolli A, Bertini E, Novelli G. Prenatal diagnosis of spinal muscular atrophy with respiratory di stress (SMARD1) in a twin pregnancy. Prenat Diagn, 2004 Oct;24(10):839-41.

14. Elder JT; Cluster 17 Collaboration. Fine mapping of the psoriasis susceptibility gene PSORS1: a reassessment of risk associated with a putative risk haplotype lacking HLA-Cw6. J Invest Dermatol, 2005 May; 124(5):921-30.

15. Capon F and Giardina E. The Long and winding road: searching for non-MHC psoriasis Susceptibility Loci. Curr Genomics, 2005; (6): 45-49.

16. Botta A, Tacconelli A, Bagni I, Giardina E, Bonifazi E, Pietropolli A, Clementi M, Novelli G. Transmission ratio distortion in the spinal muscular atrophy locus: data from 314 prenatal tests. Neurology, 2005; 65(10):1631-1635.

17. Concolino P, Satta MA, Santonocito C, Carrozza C, Rocchetti S, Ameglio F, Giardina E, Zuppi C, Capoluongo E. Linkage between I172N mutation, a marker of 21-hydroxylase deficiency, and a single nucleotide polymorphism in Int6 of CYP21B gene: A genetic study of Sardinian family. Clin Chim Acta, 2006; 364(1-2):298-302.

18. Giardina E, Predazzi I, Sinibaldi C, Peconi C, Amerio P, Costanzo A, Paradisi A, Capizzi R, Paradisi M, Chimenti S, Taccari E, Novelli G. PSORS2 markers are not associated with psoriatic arthritis in the Italian population. Hum Hered, 2006; 61(2):120-122.

19. Giardina E, Sinibaldi C, Chini L, Moschese V, Ma rulli G, Provini A, Rossi P, Paradisi M, Chimenti S, Galli E, Brunetti E, Girolomoni G, Novelli G. Co-localization of susceptibility loci for psoriasis (PSORS4) and atopic dermatitis (ATOD2) on human chromosome 1q21. Hum Hered, 2006; 61(4):229-236.

20. Guarino S, Perricone C, Guarino MD, Giardina E, Gambardella S, Rosaria D'Apice M, Bulli C, Perricone R, Novelli G. Gonadal mosaicism in hereditary angioedema. Clin Genet, 2006; 70(1):83-85.

21. Porzio O, Cunsolo V, Malaponti M, De Nisco E, Acquafredda A, Cavallo L, Andreani M, Giardina E, Testi M, Cappa M, Federici G. Divergent phenotype of two siblings HLA identical, affected by nonclassical and classical CAH caused by 21-Hydroxilase deficiency. J Clin Endocrinol Metab, 2006; 91(11):4510-4513.

22. Giardina E, Sinibaldi C and Giuseppe Novelli. Mapping the future of common diseases: lesson from psoriasis. Front Biosci, 2007; 12:1563-1573.

23. Capoluongo E, Vento G, Rocchetti S, Giardina E, Concolino P, Sinibaldi C, Santonocito C, Vendettuoli V, Tana M, Tirone C, Zuppi C, Romagnoli C, Novelli G, Giardina B, Ameglio F. Mannose-binding lectin polymorphisms and pulmonary outcome in premature neonates: a pilot study. Intensive Care Med. 2007; 33(10):1787-94.

24. Giardina E, Pietrangeli I, Martone C, Asili P, Predazzi I, Marsala P, Gabriele L, Pipolo C, Ricci O, Solla G, Sineo L, Spinella A, Novelli G. In silico and in vitro comparative analysis to select, validate and test SNPs for human identification. BMC Genomics. 2007 Dec 12;8(1):457

25. Giardina E, Paolillo N, Sinibaldi C, Novelli G. R501X and 2282del4 filaggrin mutations do not confer susceptibility to psoriasis and atopic dermatitis in Italian patients. Dermatology. 2008;216(1):83-4.

26. Giardina E, Predazzi I, Pietrangeli I, Asili P, Marsala P, Gabriele L, Pipolo C, Ricci O, S Martone C, Spinella A, Novelli G. Frequency assessment of SNPs for forensic identification in different populations. FSIGEN 2007 Dec;1(3-4):e1-3.

27. Giardina E, Pietrangeli I, Martínez-Labarga C, Martone C, De Angelis F, Spinella A, De Stefano G, Rickards O, Novelli G. Haplotypes in SLC24A5 gene as Ancestry Informative Markers in different populations. Curr Genomics 2008.

28. Giardina E, Peconi C, Cascella R, Sinibaldi C, Nardone A,M, Novelli G.. A multiplex molecular assay for the detection of uniparental disomy (UPD) for human chromosome 15. Electrophoresis. 2008 Dec;29(23):4775-9.

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32. Giardina E, Pietrangeli I, Martone C, Zampatti S, Marsala P, Gabriele L, Ricci O, Solla G, Asili P, Arcudi G, Spinella A, Novelli G. Whole genome amplification and real-time PCR in forensic casework. BMC Genomics. 2009 Apr 14;10(1):159.

33. Pietrangeli I, Caruso V, Veneziano L, Spinella A, Arcudi G, Giardina E, Novelli G. Forensic DNA challenges: replacing numbers with names of Fosse Ardeatine's victims. J Forensic Sci. 2009 Jul;54(4):905-8.

34. Giardina E, Peconi C, Cascella R, Sinibaldi C, Foti Cuzzola V, Nardone AM, Bramanti P, Novelli G. A multiplex molecular assay for the detection of uniparental disomy for human chromosome 7. Electrophoresis. 2009 Jun;30 (11):2008-11.

35. Concolino P, Mello E, Minucci A, Giardina E, Zuppi C, Toscano V, Capoluongo E. A new CYP21A1P/CYP21A2 chimeric gene identified in an Italian woman suffering from classical congenital adrenal hyperplasia form. BMC Med Genet. 2009 Jul 22;10:72.

36. Ricci F, Zampatti S, D'Abbruzzi F, Missiroli F, Martone C, Lepre T, Pietrangeli I, Sinibaldi C, Peconi C, Novelli G, Giardina E. Typing of ARMS2 and CFH in age-related macular degeneration: case-control study and assessment of frequency in the Italian population. Arch Ophthalmol. 2009 Oct;127(10):1368-72.

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39. Bergboer JG, Zeeuwen PL, Irvine AD, Weidinger S, Giardina E, Novelli G, Heijer MD, Rodriguez E, Illig T, Riveira-Munoz E, Campbell LE, Tyson J, Dannhauser EN, O'Regan GM, Galli E, Klopp N, Koppelman GH, Novak N, Estivill X, McLean WH, Postma DS, Armour JA, Schalkwijk J. Deletion of Late Cornified Envelope 3B and 3C Genes Is Not Associated with Atopic Dermatitis. J Invest Dermatol. 2010 Apr 8.

40. Pietrangeli I, Ottaviani E, Martone C, Gabriele L, Arcudi G, Potenza S, Spinella A, Giardina E, Novelli G. Frequency assessment of 25 SNPs in five different populations. Forensic Sci Int Genet. 2010 Oct;4(5):e131-3. IF= 2.421

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    G. A fluorescence-based sequence-specific primer PCR for the screening of HLA-B(*)57:01. Electrophoresis. 2010 Oct 5. IF= 3.609

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43. Amy Strange, Francesca Capon, Chris CA Spencer, Jo Knight, Michael E Weale, Michael H Allen, Anne Barton, Gavin Band, Céline Bellenguez, Judith GM Bergboer, Jenefer M Blackwell, Elvira Bramon, Suzannah J Bumpstead, Juan P Casas, Michael J Cork, Aiden Corvin, Panos Deloukas, Serge Dronov, Audrey Duncanson, Sarah Edkins, Xavier Estivill, Oliver Fitzgerald, Colin Freeman, Emiliano Giardina, Emma Gray, Angelika Hofer, Ulrike Hüffmeier, Sarah E Hunt, Alan D Irvine, Janusz Jankowski, Brian Kirby, Cordelia Langford, Jesús Lascorz, Joyce Leman, Lotus Mallbris, Hugh S Markus, Christopher G Mathew, WH Irwin McLean, Ross McManus, Rotraut Mössner, Åsa T Naluai, Frank O Nestle, Giuseppe Novelli, Alexandros Onoufriadis, Colin NA Palmer, Carlo Perricone, Matti Pirinen, Robert Plomin, Ramon M Pujol, Anna Rautanen, Eva Riveira-Munoz, Anthony W Ryan, Wolfgang Salmhofer, Lena Samuelsson, Stephen J Sawcer, Joost Schalkwijk, Catherine H Smith, Mona Ståhle, Rachid Tazi-Ahnini, Heiko Traupe, Ananth C Viswanathan, Richard B Warren, Wolfgang Weger, Katarina Wolk, Nicholas

Wood, Jane Worthington, Helen S Young, Patrick LJM Zeeuwen, Adrian Hayday, A David Burden, Christopher EM Griffiths, Juha Kere, André Reis, David Evans, Matthew A Brown, Jonathan N Barker, Leena Peltonen, Peter Donnelly and Richard C Trembath. Identification of novel psoriasis susceptibility

loci and genetic interaction between HLA-C and ERAP1 provides evidence for an integrated pathogenic pathway Nat Genet. in press IF= 34.284

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47. Giardina E, Spinella A, Novelli G. Past, present and future of forensic DNA typing. Nanomedicine (Lond). 2011 Feb;6(2):257-70. Review. IF= 6.2

48. Docampo E, Giardina E, Riveira-Muñoz E, de Cid R, Escaramís G, Perricone C, Fernández-Sueiro JL, Maymó J, González-Gay MA, Blanco FJ, Hüffmeier U, Lisbona MP, Martín J, Carracedo A, Reis A, Rabionet R, Novelli G, Estivill X. Deletion of LCE3C and LCE3B is a susceptibility factor for psoriatic arthritis: a study in Spanish and Italian populations and meta-analysis. Arthritis Rheum. 2011 Jul;63(7):1860-5. IF= 8.4
49. Lepre T, Cascella R, Missiroli F, De Felici C, Taglia F, Zampatti S, Cusumano A, Ricci F, Giardina E, Eandi CM, Novelli G. Polymorphisms in ARMS2 (LOC387715) and LOXL1 genes in the Japanese with age-related macular degeneration. Am J Ophthalmol. 2011 Aug;152(2):325-6. IF= 3.8

50. Giardina E, Hüffmeier U, Ravindran J, Behrens F, Lepre T, McHugh NJ, Korendowych E, Burkhardt H, Novelli G, Reis A. Tumor necrosis factor promoter polymorphism TNF*-857 is a risk allele for psoriatic arthritis independent of the PSORS1 locus. Arthritis Rheum. 2011 Dec;63(12):3801-6. IF= 8.4

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Roma, 04 agosto 2025

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