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ABILITAZIONE SCIENTIFICA NAZIONALE

Tornata Abilitazione	**ASN 2012**
Settore	05/E2 - BIOLOGIA MOLECOLARE
Fascia	Seconda Fascia
Settore	05/F1 - BIOLOGIA APPLICATA
Fascia	Seconda Fascia
Settore	06/N1 - Scienze delle Professioni Sanitarie e delle Tecnologie Mediche Applicate (Med/46)
Fascia	Seconda Fascia
Tornata Abilitazione	**ASN 2016**
Settore	06/N1 - Scienze delle Professioni Sanitarie e delle Tecnologie Mediche Applicate (Med/46)
Fascia	Prima Fascia

Prodotti della Ricerca

Index-linked Papers	81 Articoli - Impact Factor Totale 442,332
Index-linked Abstracts	129 Abstracts - Impact Factor Totale 306,222
Not Index-linked Abstracts	97 Abstracts
Book's chapters:	6
ISI h-index	21 (Scopus al 30/03/2017)

Titoli di Studio

Data Conseguimento	25/02/1997
Titolo conseguito	Diploma di scuola di specializzazione
Descrizione	Specialità in Genetica Applicata indirizzo Citogenetica e Genetica Molecolare
Voto conseguito	50/50
Titolo della Tesi	Associazione dei geni D con l'Artrite Reumatoide Infantile: un esempio di coinvolgimento degli antigeni HLA nelle patologie autoimmuni
Nome Istituzione	Università degli Studi di PAVIA - Corso Strada Nuova, 65 - PAVIA
Data Conseguimento	11/04/1994
Titolo conseguito	Esame di stato per l'abilitazione all'esercizio della professione di Biologo
Nome Istituzione	Università degli Studi di PAVIA - Corso Strada Nuova, 65 - PAVIA
Data Conseguimento	1/03/1994
Titolo conseguito	Tirocinio Post Lauream
Nome Istituzione	Università degli Studi di PAVIA - Corso Strada Nuova, 65 - PAVIA
Data Conseguimento	30/11/1992
Titolo conseguito	Laurea (vecchio ordinamento)
Descrizione	Scienze Biologiche
Voto conseguito	108/110
Titolo della Tesi	Studio dell'attività dei linfociti killer attivati da linfochine (LAK) contro cellule tumorali in vitro
Nome Istituzione	Università degli Studi di PAVIA - Corso Strada Nuova, 65 - PAVIA

PRINCIPALI ESPERIENZE

Periodo	01/01/2010 – oggi
Posizione	Ricercatore presso Ente di ricerca
Qualifica	Dirigente I fascia
Tipo di attività svolta	Direttore Responsabile del laboratorio di Ricerca e Diagnostica di Neurobiologia Sperimentale dell'IRCCS Istituto Neurologico Nazionale Casimiro Mondino
Nome Istituzione	Fondazione Istituto Neurologico Casimiro Mondino (IRCCS) – PAVIA
Periodo	01/11/2003 – oggi
Tipo di attività svolta	Attività didattica (seminari, internati e tesi di laurea) presso i corsi di laurea Magistrali in Neurobiologia, Biotecnologie Applicate, Molecular Biology and Genetics e di tesi di dottorato in Scienze Farmacologiche, Patologia e Genetica Medica
Nome Istituzione	Università degli Studi di PAVIA - Corso Strada Nuova, 65 – PAVIA
Periodo	01/11/2012 – oggi
Tipo di attività svolta	Attività Didattica presso la Scuola di Specialità di Neurologia
Nome Istituzione	Università degli Studi di PAVIA - Corso Strada Nuova, 65 – PAVIA
Periodo	01/03/2009 - 31/12/2009
Qualifica	Dirigente I fascia
Tipo di attività svolta	Attività di ricerca e diagnostica nel laboratorio di Ricerca di Neurobiologia Sperimentale dell'IRCCS Istituto Neurologico Nazionale Casimiro Mondino
Nome Istituzione	Fondazione Istituto Neurologico Casimiro Mondino (IRCCS) - PAVIA
Periodo	01/02/2001 - 28/02/2009
Qualifica	Ricercatore a tempo determinato
Tipo di attività svolta	Attività di ricerca e diagnostica nel laboratorio di Ricerca di Neurobiologia Sperimentale dell'IRCCS Istituto Neurologico Nazionale Casimiro Mondino
Nome Istituzione	Fondazione Istituto Neurologico Casimiro Mondino (IRCCS) - PAVIA
Periodo	01/01/2008 - 30/11/2008
Qualifica	Consulente scientifico
Tipo di attività svolta	Esperto del settore SLA nel Gruppo di Lavoro sulla riqualificazione dell'attività delle Commissioni Sanitarie per l'accertamento dell'invalidità civile e dell'handicap della Direzione Generale Famiglia e Solidarietà Sociale di Regione Lombardia.
Nome Istituzione	Regione Lombardia
Periodo	01/09/1994 - 31/01/1999
Qualifica	Borsista
Tipo di attività svolta	Attività di ricerca presso il Laboratorio di tipizzazione tissutale del Centro Trasfusionale dell'Istituto Ortopedico Gaetano Pini
Nome Istituzione	Istituto Ortopedico Gaetano Pini – Milano
Periodo	01/10/1993 - 16/04/1997
Tipo di attività svolta	Specializzazione in "Genetica Applicata" indirizzo Citogenetica e Genetica Molecolare
Nome Istituzione	Università degli Studi di PAVIA - Corso Strada Nuova, 65 - PAVIA
Periodo	01/11/1992 - 31/08/1994
Tipo di attività svolta	Borsista presso il Laboratorio di Immunogenetica del Dipartimento di Genetica e Microbiologia dell'Università degli Studi di Pavia
Nome Istituzione	Università degli Studi di PAVIA - Corso Strada Nuova, 65 - PAVIA
Periodo	01/11/1992 - 01/11/1993
Tipo di attività svolta	Tirocinio presso il Laboratorio di Immunogenetica del Dipartimento di Genetica e Microbiologia dell'Università degli Studi di Pavia
Nome Istituzione	Università degli Studi di PAVIA - Corso Strada Nuova, 65 - PAVIA

ATTIVITÀ DIDATTICA

1. Docenza istituzionale:
   - 2012 ad oggi: Professore a contratto Titolare del Corso "*Metodologia ed indicazioni delle indagini genetiche per le malattie neurologiche*" - Scuola di Specializzazione in Neurologia - Facoltà di Medicina - Università degli studi di Pavia.
   - 2016 - 2017: Seminari didattici retribuiti (10 ore) - Corso di Neurogenetica e Neuropatologia - Laurea Magistrale di Neurobiologia - Facoltà di Scienze Biologiche - Università degli studi di Pavia.

2. Collaborazioni nella docenza di corsi universitari svolgendo seminari e lezioni nel corso di Laurea Magistrale in Neurobiologia e di Biotecnologie Mediche e Farmaceutiche ed in particolare:
   - 2003 - 2012: Corso di Neuropatologia, Neuroimmunologia, Neurogenetica (Titolare: Prof. Mauro Ceroni) - Laurea Magistrale in Neurobiologia - Università degli Studi di Pavia (4 ore)
   - 2012 - 2015: Corso di Neuropatologia, Neurogenetica (Titolare: Prof. Mauro Ceroni) - Laurea Magistrale in Neurobiologia - Facoltà di scienze - Università degli Studi di Pavia (6 ore)
   - 2006 - 2015: Corso di Neuroscienze (Titolare: Prof. Mauro Ceroni) - Laurea Magistrale in Biotecnologie Mediche e Farmaceutiche - Facoltà di scienze - Università degli Studi di Pavia (ore 6)

3. Attività di supporto alla didattica:

   2003 - 2016 relatore di **46** tesi in Lauree triennali, Magistrali e di dottorato afferenti alla Facoltà di Medicina e di Scienze dell'Università di Pavia. In particolare:

   Facoltà di Scienze
   Laurea in Scienze Biologiche: 1
   Laurea Magistrale in Neurobiologia: 13
   Laurea Magistrale in Biotecnologie: 8
   Laurea Magistrale in Molecular Biology And Genetics: 5
   Biologia Sperimentale e Applicata: 2

   Facoltà di Medicina
   Lurea in Medicina e Chirurgia: 9

   Dottorati:
   Dottorato in Scienze Farmacologiche: 5
   Dottorato in Scienze Biomediche: 2
   Dottorato in Patologia e Genetica Medica: 1

PARTECIPAZIONE A COMMISSIONI DI PRESTIGIO E ALTRE PARTECIPAZIONI ACCADEMICHE

- 2009: Valutatore di progetti di ricerca nell'ambito delle iniziative promosse per favorire l'attività di giovani impegnati nella ricerca - l'Università degli Studi di Milano - Magnifico Rettore Prof. Enrico Decleva.
- 2008: Consulente Esperto del settore SLA, al Gruppo di Lavoro sulla riqualificazione dell'attività delle Commissioni Sanitarie per l'accertamento dell'invalidità civile e dell'handicap - Direzione Generale Famiglia e Solidarietà Sociale - Regione Lombardia. Tale consulenza ha portato alla stesura del documento di "*Valutazione delle malattie dei motoneuroni e in particolare della Sclerosi Laterale Amiotrofica nell'ambito dell'Invalidità civile dell'handicap comprensiva di tabella e dei dati classificativi, definizione e incidenza delle malattie stesse.*"

PARTECIPAZIONE ALLE ATTIVITÀ DI UN GRUPPO DI RICERCA CARATTERIZZATO DA COLLABORAZIONI A LIVELLO NAZIONALE O INTERNAZIONALE

- 01 Gennaio 2010 ad oggi: Collaborazione con EURALS nel contesto della ricerca sulla SLA.
- 01 Giugno 2010 ad oggi: Collaborazione con SLAGEN nel contesto della ricerca sulla SLA.
- 01 Marzo 2015 ad oggi: Collaborazione con ENCALS nel contesto della ricerca sulla SLA
- 01 Gennaio 2016 ad oggi: Collaborazione con San Raffaele Telethon per la Terapia Genica (SR-Tiget) di Milano e l'International Aicardi-Goutières Syndrome Association (I.A.G.S.A) nel contesto di un progetto di ricerca finanziato dalla Fondazione Telethon e mirato a sviluppare modelli in vitro per lo studio dei meccanismi di patogenesi della Sindrome di Aicardi-Goutières (AGS)

SPIN OFF

- Consulente esterno, alle attività dello spin-off *"NewHeart"*, approvato dal Ministero dell'Istruzione, dell'Università e della Ricerca con Prot. N° 2752 del 11 Maggio 2010 (si segnala la pubblicazione scientifica che sancisce l'inizio delle attività: Govoni S, Pascale A, Amadio M, Calville L, D'Elia E, Cereda C, Fantucci P, Ceroni M, Vanoli E. *NGF and heart: Is there a role in heart disease*? *Pharmacol Res. 2011 Apr*;63(4):266-77.)

ATTIVITÀ CLINICO-ASSISTENZIALI

- 01 Ottobre 2001 - 28-Febbraio-2009: Ricercatore a t.d. presso IRCCS Fondazione Istituto Neurologico Casimiro Mondino
- dal 01 Marzo 2009 ad oggi: Dirigente Biologo presso lo SMeL dell'IRCCS Fondazione Istituto Neurologico Casimiro Mondino
- 01 Gennaio 2010 ad oggi: Responsabile della Biobanca dell'IRCCS Istituto Neurologico Nazionale Casimiro Mondino
- 01 Gennaio 2010 ad oggi: Direttore del laboratorio di Ricerca e Diagnostica di Neurobiologia Sperimentale che svolge ricerca preclinica e diagnostica molecolare nella Fondazione Istituto Neurologico Casimiro Mondino (IRCCS) di PAVIA
- 01 Luglio 2015 ad oggi: Direttore del Centro di Genomica e post-Genomica della Fondazione Istituto Neurologico Casimiro Mondino (IRCCS) di PAVIA

FINANZIAMENTI PERSONALI PEER REVIEWED

1. **Progetti soggetti a revisione scientifica**, in qualità di Responsabile di Unità Operativa:
   - 2015 - Fondazione per la Ricerca Biomedica – *"Translating molecular mechanisms into ALS risk and patient's wellbeing (TRANS-ALS)".* Inizio progetto Ottobre 2016;
   - 2014 - Fondazione AriSLA - *"VCP and autophagolysosomal pathway: guardians of proteostasis and stress granule dynamics. Unraveling their implication in ALS"*. Inizio progetto Maggio 2015;
   - 2013 - Fondazione Cariplo 2013. *"Processing of RNA:DNA hybrid molecules by RNaseH in the pathogenesis of the Aicardi-Goutières syndrome and other autoimmune diseases".* Inizio progetto 1 Luglio 2014;
   - 2011 - Regione Autonoma Valle d'Aosta - *"Interventi regionali in favore della Ricerca e dello Sviluppo". "ParIS- PARkinson Informative Systems".* Inizio progetto 1 Gennaio 2011;
   - 2010 - Fondazione Cariplo 2010. *"Study of GLUT1 expression and GLUT4 co-expression in white blood cells of GLUTl1 deficiency syndrome patients*". Inizio progetto 1 Settembre 2011;
   - 2009 Ricerca Finalizzata - Ministero della Salute - *"Understanding the biological continuum between Amyotrophic lateral sclerosis (ALS) and Fronto-temporal dementia (FTD): a step towards a more efficient assistance model for the affected patients".* Inizio progetto 1 Dicembre 2011;

- 2009 - Fondazione Banca del Monte - *Nanotecnologie nella diagnostica precoce e differenziale della Malattia di Alzheimer.* Inizio progetto Giugno 2009;
- 2008 - Fondazione Banca del Monte - Contributo per l'acquisto di nuova tecnologia in campo preteomico.

2. Incarichi ricevuti dalla Fondazione Istituto Neurologico Casimiro Mondino (IRCCS) per l'esecuzione di parti di ricerca di bandi peer reviewd:
   - 2002 Ricerca finalizzata - Ministero della Salute dal titolo - *"Tossicità della SOD1 mutata in modelli animali e cellulari di SLA"*, con la seguente prestazione: *"Studio degli eventi di splicing alternativo di SOD1 in topi transgenici SOD1 mutated"* - periodo 04/09/2003 - 31/12/2003;
   - 2002 Ricerca finalizzata - Ministero della Salute - *"Tossicità della SOD1 mutata in modelli animali e cellulari di SLA: individuazione di fattori di rischio e strategie terapeutiche"*, con la seguente prestazione: *"Sviluppo di tecniche di espressione genica (real rime) in particolare legate al gene SOD1"* - periodo 17/01/2003-31/03/2003;
   - 1998 Ricerca Finalizzata - Ministero della Salute - *"Sclerosi Laterale Amiotrofica",* con la seguente prestazione: "controllo ed analisi sequenze per mutazioni gene SOD1" - periodo 29/11/2001-30/04/2002.
3. Incarichi ricevuti dalla Fondazione Istituto Neurologico Casimiro Mondino (IRCCS) per l'esecuzione di progetti di **Ricerca Corrente** – Ministero della Saute:
   - 01/01/2013 - 31/12/2016: Linea di Ricerca Corrente dal titolo *"Processi neurodegenerativi e disordini del movimento"* - Responsabile Progetto: *"SLA, malattie rare e fenotipi neurodegenerativi complessi"; "Biomarcatori e nuove strategie terapeutiche in pazienti con demenza";*
   - 01/01/2012: Linea di Ricerca Corrente: *"Processi neurodegenerativi e disordini del movimento"* - Responsabile Progetto: *"Definizione di nuove vie patogenetiche e caratterizzazione di sottogruppi di pazienti nella SLA sporadica";* Co-responsabile della Linea di Ricerca Corrente: *"L'apporto della genetica alla definizione dei fenotipi clinici: patologie mono e poligeniche"*
   - 01/01/2009 - 31/12/2011: Linea di Ricerca Corrente: *"Processi neurodegenerativi e disordini del movimento" (Linea 3)* - Responsabile Progetto: *"Malattie del motoneurone ed altre malattie rare";* Co-responsabile della Linea di Ricerca Corrente: *"L'apporto delta genetica alla definizione dei fenotipi cimici: patologie mono e poligeniche"* (Linea 9);
   - 2005 - 2008 Ricerca corrente - *"Malattie Neurodegenerative e disordini del movimento - Malattia del motoneurone: identificazione di nuovi marcatori di malattia e valutazione di approcci terapeutici innovativi" (Linea 3B)* - Nell'ambito del progetto *"Nuove funzioni dell Superossido Dismutasi";* Responsabile del WP: *"Studio del ruolo dell'infiammazione attraverso l'analisi del sistema del TNF in pazienti affetti da SLA"*; *"Analisi degli elementi regolatori del gene della Superossido Dismutasi in pazienti affetti da SLA";*
   - 2005 Ricerca corrente *"Identificazione di marcatori biologici in linfociti di pazienti affetti da Sclerosi Laterale Amiotrofica",* con la seguente prestazione: *"Individuazione di biomarcatori in tessuti periferici di pazienti affetti da SLA sporadica"* - periodo 18/05/2005-31/10/2005;
   - 2004 Ricerca corrente *"Studio di eventi di splicing alternativo del gene SOD1 in modelli animali di SLA*", con la seguente prestazione: *"Messa a punto del modello di espressione genica delle variabili di splicing del gene SOD1 precedentemente descritte"* – periodo 04/05/2004-28/02/2005.

PARTECIPAZIONE A COMITATI EDITORIALI DI RIVISTE

- 2015 - oggi: Academic Editor for PLos ONE.
- 2016 - oggi Academic Editor for Journal of Genetic Medicine and Gene Therapy

ATTIVITA' DI REFERAGGIO

- Svolge regolare attività di referaggio per diverse riviste tra le quali si possono citare:
  - Journal of Neuroimmunology (JNI),

- Neuropharmacology (NEUROPHARM),
- Journal of the Neurological Sciences (JNS),
- Frontiers in cellular neuroscience (FRONT CELL NEUROSCI),
- Neuroscience letters (NEUROSCI LETT),
- Journal of neurology, neurosurgery and psychiatry (JNNP),
- Neurological Sciences (NEUS)
- PlosOne

PARTECIPAZIONE A SOCIETA' SCIENTIFICHE

- 2009 (fellow) Italian Society of Human Genetics (SIGU)
- 2011 (fellow) Italian Society of Neuroscience (SINS)
- 2011 (fellow) Federation of European Neuroscince Societies (FENS)
- 2011 (fellow) Society for Neurosciece (SfN)

Riepilogo:

Index-linked papers

Group Authors Papers

- McLaughlin RL, **Project MinE GWAS Consortium** & Schizophrenia Working Group of the Psychiatric Genomics Consortium et al.. Genetic correlation between amyotrophic lateral sclerosis and schizophrenia. Nature Communications (2017) doi:10.1038/ncomms14774 **(I.F. 11.329 - 2015)**
- Kenna KP, van Doormaal PT, Dekker AM, Ticozzi N, Kenna BJ, Diekstra FP, van Rheenen W, van Eijk KR, Jones AR, Keagle P, Shatunov A, Sproviero W, Smith BN, van Es MA, Topp SD, Kenna A, Miller JW, Fallini C, Tiloca C, McLaughlin RL, Vance C, Troakes C, Colombrita C, Mora G, Calvo A, Verde F, Al-Sarraj S, King A, Calini D, de Belleroche J, Baas F, van der Kooi AJ, de Visser M, Ten Asbroek AL, Sapp PC, McKenna-Yasek D, Polak M, Asress S, Muñoz-Blanco JL, Strom TM, Meitinger T, Morrison KE; **SLAGEN Consortium**, Lauria G, Williams KL, Leigh PN, Nicholson GA, Blair IP, Leblond CS, Dion PA, Rouleau GA, Pall H, Shaw PJ, Turner MR, Talbot K, Taroni F, Boylan KB, Van Blitterswijk M, Rademakers R, Esteban-Pérez J, García-Redondo A, Van Damme P, Robberecht W, Chio A, Gellera C, Drepper C, Sendtner M, Ratti A, Glass JD, Mora JS, Basak NA, Hardiman O, Ludolph AC, Andersen PM, Weishaupt JH, Brown RH Jr, Al-Chalabi A, Silani V, Shaw CE, van den Berg LH, Veldink JH, Landers JE. NEK1 variants confer susceptibility to amyotrophic lateral sclerosis. *Nature Genetics*. (2016) doi:10.1038/ng.3622 **(I.F. 31.616 - 2015)**
- Cirulli E, **FALS Sequencing Consortium** et al.. Exome sequencing in amyotrophic lateral sclerosis identifies risk genes and pathways. *Science,* 2015 Mar; 347(6229): 1436-1441. doi: 10.1126/science.aaa3650 **(I.F. 34.661 - 2015)**
  Lill CM, **SLAGEN Consortium** et al. The role of TREM2 R47H as a risk factor for Alzheimer's disease, frontotemporal lobar degeneration, amyotrophic lateral sclerosis, and Parkinson's disease. *Alzheimers Dement*. 2015 Apr 30,. doi: 10.1016/j.jalz.2014.12.009. [Epub ahead of print] **(I.F. 11.619 - 2015)**
- Pupillo E, Messina P, Logroscino G, Zoccolella S, Chiò A, Calvo A, Corbo M, Lunetta C, Micheli A, Millul A, Vitelli E, Beghi E; **EURALS Consortium**, Beghi E. Trauma and amyotrophic lateral sclerosis: a case-control study from a population-based registry. Eur J Neurol. 2012 Dec;19(12):1509-17. doi: 10.1111/j.1468-1331.2012.03723.x. Epub 2012 Apr 27. (I.F. 4.162 -2012)
- Beghi E, Pupillo E, Messina P, &. **EURALS Consortium**. Traumatic events and amyotrophic lateral sclerosis: a European case-control study. European Journal of Neurology 22 (1S); P1266. (1st Congress of the European Academy of Neurology. Berlin. June 20-23, 2015).(I.F. 4.055- 2014) P1266
- Beghi E, Pupillo E, Messina P, Giussani G, Chiò A, Zoccolella S, Moglia C, Corbo M, Logroscino G & the **EURALS Group** Coffee and Amyotrophic Lateral Sclerosis: A Possible Preventive Role Am J Epidemiol (2011) 174 (9): 1002-1008. (Non I.F. - 2011)

2017 (IF Tot. 11,329 - Articles: 1)

1. McLaughlin RL, **Project MinE GWAS Consortium** & Schizophrenia Working Group of the Psychiatric Genomics Consortium et al.. Genetic correlation between amyotrophic lateral sclerosis and schizophrenia. Nature Communications (2017) doi:10.1038/ncomms14774 **(I.F. 11.329 - 2015)**

2016 (IF Tot. 121,838 - Articles: 13)

2. Zucca S, Villaraggia M, Gagliardi S, Grieco GS, Valente M, **Cereda C**, Magni P. Analysis of amplicon-based NGS data from neurological disease gene panels: a new method for allele drop-out management. *BMC Bioinformatics* (2016) 17(Suppl 12):339 **(I.F. 2.435 - 2015)**

3. Gagliardi S, Ricca I, Ferrarini A, Valente M, Grieco GS, Piccolo G, Alfonsi E, Delledonne M, **Cereda C**. Palmoplantar Keratoderma and Charcot-Marie-Tooth: combination of two independent genetic diseases? Identification of two point mutations in CMT2 and PPK genes by whole exome sequencing. *Br J Dermatol.* 2016 Sep 17. doi: 10.1111/bjd.15066. [Epub ahead of print]. **(I.F. 4.317 - 2015)**

4. Ganassi M, Mateju D, Bigi I, Mediani L, Poser I, Lee HO, Seguin SJ, Morelli FF, Vinet J, Leo G, Pansarasa O, **Cereda C**, Poletti A, Alberti S, Carra S. A Surveillance Function of the HSPB8-BAG3-HSP70 Chaperone Complex Ensures Stress Granule Integrity and Dynamism. Mol Cell. 2016 Aug 25. pii: S1097-2765(16)30374-4. doi: 10.1016/j.molcel.2016.07.021 **(I.F. 13.958 - 2015)**

5. Crippa V, Cicardi ME, Ramesh N, Seguin SJ, Ganassi M, Bigi I, Diacci C, Zelotti E, Baratashvili M, Gregory JM, Dobson CM, **Cereda C**, Pandey UB, Poletti A, Carra S. The chaperone HSPB8 reduces the accumulation of truncated TDP-43 species in cells and protects against TDP-43-mediated toxicity. Hum Mol Genet. 2016 Jul 27. pii: ddw232. **(I.F. 5.985 - 2015)**

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