FORMATO EUROPEO PER IL CURRICULUM VITAE

INFORMAZIONI PERSONALI

Nome	**CEREDA CRISTINA GIOVANNA**
E-mail	cristina.cereda@asst-fbf-sacco.it
Nazionalità	Italiana

ESPERIENZA LAVORATIVA

• Date (da – a)	01/06/2021 a oggi
• Nome e indirizzo del datore di lavoro	ASST Fatebenefratelli Sacco
• Principali mansioni e responsabilità	Direttore UOC Screening Neonatale e Malattie Metaboliche
• Date (da – a)	24/06/2015 - 31/05/2021
• Nome e indirizzo del datore di lavoro	Fondazione Istituto Neurologico Nazionale “Casimiro Mondino” (IRCCS) - PAVIA
• Principali mansioni e responsabilità	Responsabile del Centro di diagnostica avanzata e di ricerca molecolare genomica e post-genomica
• Date (da – a)	01/03/2009 - 24/06/2015
• Nome e indirizzo del datore di lavoro	Fondazione Istituto Neurologico Nazionale “Casimiro Mondino” (IRCCS) - PAVIA
• Principali mansioni e responsabilità	Responsabile del Laboratorio di Neurogenetica
• Date (da – a)	29/11/2001 - 28/02/2009
• Nome e indirizzo del datore di lavoro	Fondazione Istituto Neurologico Nazionale “Casimiro Mondino” (IRCCS) - PAVIA
• Principali mansioni e responsabilità	Ricercatore Senior
• Date (da – a)	01/12/1994 - 31/05/1998
• Nome e indirizzo del datore di lavoro	Azienda Ospedaliera Istituto Ortopedico Gaetano Pini – Clinica Ortopedica dell’Università di Milano – MILANO
• Principali mansioni e responsabilità	Ricercatore Junior

ISTRUZIONE E FORMAZIONE

• Date (da – a)	25/02/1997
• Nome e tipo di istituto di istruzione o formazione	Università degli Studi di Pavia
• Qualifica conseguita	Diploma di scuola di specializzazione; Specialità in Genetica Applicata indirizzo Citogenetica e Genetica Molecolare
• Date (da – a)	11/04/1994
• Nome e tipo di istituto di istruzione o formazione	Università degli Studi di Pavia
• Qualifica conseguita	Esame di stato per l’abilitazione all’esercizio della professione di Biologo
• Date (da – a)	30/11/1992
• Nome e tipo di istituto di istruzione o formazione	Università degli Studi di Pavia
• Qualifica conseguita	Laurea (vecchio ordinamento) in Scienze Biologiche

ATTIVITÀ DIDATTICA

• Date (da – a)	AA 2017/2018 – IN CORSO
• Nome e indirizzo del datore di lavoro	Università degli studi di Pavia
• Principali mansioni e responsabilità	Professore a contratto a titolo gratuito (senza oneri per l'ateneo) del Corso di Immunologia (6 CFU) – Laurea Triennale di Scienze Biologiche
• Date (da – a)	AA 2003/2004 – AA 2018/2019
• Nome e indirizzo del datore di lavoro	Università degli studi di Pavia
• Principali mansioni e responsabilità	Professore Aggiunto a titolo gratuito (senza oneri per l'ateneo) del Corso "Metodologia ed indicazioni delle indagini genetiche per le malattie neurologiche" - Scuola di Specializzazione in Neurologia - Facoltà di Medicina

ATTIVITÀ SCIENTIFICA

• Pubblicazioni	Ha al suo attivo oltre 300 tra pubblicazioni e abstract indicizzati su riviste scientifiche internazionali con, attualmente, 35 di Hindex e più di 5000 citazioni (in allegato le principali). È stata relatrice a numerosi congressi Nazionali ed Internazionali. E' reviewer per numerose riviste scientifiche internazionali.
• Progetti di Ricerca	E' stata assegnataria di finanziamenti di ricerca per 34 progetti finanziati dal Ministero della Salute, Fondazioni ed Enti Privati e Fondi Europei in qualità di Ricercatore, Principal Investigator di unità operativa/del progetto oltre che di finanziamenti di Ricerca Corrente. Il suo gruppo di ricerca è stato assegnatario di 5 progetti finanziati dal Ministero della Salute, Fondazioni ed Enti Privati e Fondi Europei in qualità di Ricercatore, Principal Investigator di unità operativa del progetto.

CAPACITÀ E COMPETENZE PERSONALI

Acquisite nel corso della vita e della carriera ma non necessariamente riconosciute da certificati e diplomi ufficiali.

MADRELINGUA **ITALIANA**

ALTRE LINGUA

	INGLESE	**FRANCESE**
• Capacità di lettura	BUONO	BUONO
• Capacità di scrittura	BUONO	BUONO
• Capacità di espressione orale	DISCRETO	BUONO

CAPACITÀ E COMPETENZE RELAZIONALI

Esperienza pluriennale in lavoro d'équipe nell'ambito della direzione Gruppi di lavoro multidisciplinari sia in ambito di diagnostica che di ricerca nella conduzione di progetti regionali, nazionali ed internazionali.

CAPACITÀ E COMPETENZE ORGANIZZATIVE

Dirige il Laboratorio Regionale di Screening Neonatale e Malattie Metaboliche che ogni anno analizza campioni ematici di tutti i bambini nati in Lombardia (circa 70.000 campioni/anno).
Ha diretto per anni il Centro di Genomica e post-Genomica del Mondino gestendo un team multidisciplinare con personale con diverse specializzazioni (biologi, tecnici, bioinformatici, biotecnologi, chimici). In questo periodo:

- Ha lavorato in collaborazione con ATS per l'accreditamento dei laboratori di Genetica Molecolare e per la definizione delle attività ad esso correlate.
- Ha svolto un ruolo primario nella implementazione di nuovi servizi diagnostici e di ricerca presso la Fondazione Mondino (es. Lab. Neurogenetica, la Biobanca, il Centro di Genomica e post-Genomica, Lab. Covid)
- Si è occupata delle Attività di Found Raising ricercando i finanziamenti necessari al fine di sostenere le attività di ricerca del gruppo, in larga parte autofinanziate, mediante la scrittura di Progetti scientifici per l'applicazione a Grant nazionali ed internazionali
- Ha definito i percorsi di Analisi, interpretazione e verifica dei risultati degli esami genetici predisponendo referti secondo le raccomandazioni della American College of Medical Genetics and Genomics (ACMG) garantendo accuratezza, il rispetto dei tempi di refertazione e supportando il clinico nella formulazione delle diagnosi secondo i criteri dell'Evidence Based Medicine.

Sono numerose le pubblicazioni scientifiche in cui ha coordinato studi multidisciplinari con clinici, farmacologi, biologi ed ingegneri

CAPACITÀ E COMPETENZE TECNICHE

Ha sviluppato competenze tecniche innovative nel campo delle omiche e delle tecniche di validazione per la caratterizzazione di quadri patologici complessi in Malattie Rare tra cui:
• Next generation sequencing applicato alla definizione di mutazioni genomiche per lo studio di esomi in patologie genetiche complesse
• Tecniche di conferma per la validazione delle varianti genetiche trovate (Sequenziamento Sanger, Multiplex Ligation-depedent Probe Amplification, PCR-Real Time)
• Next Generation Sequencing applicato allo studio di trascrittomi per la definizione di biomarcatori molecolari (miRNAs, mRNA e lncRNA) prognostici e/o diagnostici e in risposta a trattamenti farmacologici
• Next Generation Sequencing applicato allo studio del Metiloma per la definizione di malattie dell'Imprinting e utilizzo del Pirosequenziamento come tecnica di conferma
• Tecniche di studio del genoma come "chromatin immunoprecipitation con sequenza (ChIP-Seq), RNA-Seq e DRIP-Seq

PATENTE O PATENTI Patente B

Milano, 04/01/2022

PRINCIPALI PUBBLICAZIONI SCIENTIFICHE

1. Dell'Orco M, Sardone V, Gardiner AS, Pansarasa O, Bordoni M, Perrone-Bizzozero NI, **Cereda C**. HuD regulates SOD1 expression during oxidative stress in differentiated neuroblastoma cells and sporadic ALS motor cortex, *Neurobiology of Disease*, doi: 10.1016/j.nbd.2020.105211.
2. Carelli S., Giallongo T., Rey F., et al.. Neural precursors cells expanded in a 3D micro-engineered niche present enhanced therapeutic efficacy in vivo. *Nanotheranostics*, doi: 10.7150/ntno.50633
3. Dewan R., **FALS Sequencing Consortium** et al.. Pathogenic Huntingtin Repeat Expansions in Patients with Frontotemporal Dementia and Amyotrophic Lateral Sclerosis. *Neuron,* doi: 10.1016/j.neuron.2020.11.005
4. Rey F, Messa L, Pandini C, et al.. Transcriptome Analysis of Subcutaneous Adipose Tissue from Severely Obese Patients Highlights Deregulation Profiles in Coding and Non-Coding Oncogenes. *International Journal of Molecular Sciences*, doi: 10.3390/ijms22041989
5. Sproviero D, Gagliardi S, Zucca S, Arigoni M, Giannini M, Garofalo M, Olivero M, Dell'Orco M, Pansarasa O, Bernuzzi S, Avenali M, Cotta Ramusino M, Diamanti L, Minafra B, Perini G, Zangaglia R, Costa A, Ceroni M, Perrone-Bizzozero NI, Calogero RA, **Cereda C**. Different miRNA profiles in plasma derived small and large extracellular vesicles of neurodegenerative disease patients. *International Journal of Molecular Sciences*, doi: 10.3390/ijms22052737
6. Antonaci F, Ravaglia S, Grieco GS, et al.. Familial hemiplegic migraine type 2 due to a novel missense mutation in ATP1A2. *The Journal of Headache and Pain*, doi: 10.1186/s10194-021-01221-x
7. Garau J, Sproviero D, Dragoni F, Piscianz E, Santonicola C, Tonduti D, Carelli S, Tesser A, Zuccotti GV, Tommasini A, Orcesi S, Pansarasa O, **Cereda C**. Hydroxychloroquine modulates immunological pathways activated by RNA:DNA hybrids in Aicardi-Goutières syndrome patients carrying RNASEH2 mutations. *Cellular & Molecular Immunology*, doi: 10.1038/s41423-021-00657-0
8. Mura E., Masnada S., Antonello C. et al.. Ruxolitinib in Aicardi-Goutières syndrome. *Metabolic Brain Disease*. doi: 0.1007/s11011-021-00716-5
9. Mediani L, Antoniani F, Galli V et al.. Hsp90-mediated regulation of DYRK3 couples stress granule disassembly and growth via mTORC1 signaling. *EMBO reports.* doi:10.15252/embr.202051740
10. Capodiferro A, Aram B, Raveane A et al. Archaeogenomic distinctiveness of the Isthmo-Colombian area. *Cells*. doi:10.1016/j.cell.2021.02.040
11. Damin F, Galbiati S, Gagliardi S, et al.. CovidArray: A Microarray-Based Assay with High Sensitivity for the Detection of Sars-Cov-2 in Nasopharyngeal Swabs. *Sensors*, doi: 10.3390/s21072490
12. Palmieri I, Valente M, Farina LM, Gana S, Minafra B, Zangaglia R, Pansarasa O, Sproviero D, Costa A, Pacchetti C, Pichiecchio A, Gagliardi S, **Cereda C**. PSEN1 Compound Heterozygous Mutations Associated with Cerebral Amyloid Angiopathy and Cognitive Decline Phenotype. *International Journal of Molecular Sciences,* doi: 10.3390/ijms22083870
13. Rey F; Messa L; Pandini C; et al.. RNA-seq Characterization of Sex-Differences in Adipose Tissue of Obesity Affected Patients: Computational Analysis of Differentially Expressed Coding and Non-Coding RNAs. *Journal of Personalized Medicine*, doi: 10.3390/jpm11050352
14. Garau J, Masnada S, Dragoni F, Sproviero D, Fogolari F, Gagliardi S, Izzo G, Varesio C, Orcesi S, Veggiotti P, Zuccotti GV, Pansarasa O, Tonduti D, **Cereda C**. Case Report: Novel Compound Heterozygous RNASEH2B Mutations Cause Aicardi-Goutières Syndrome. *Frontiers in Immunology*, doi: 10.3389/fimmu.2021.672952.
15. Varesio C.; Gana S.; Asaro A.; et al.. Diagnostic Yield and Cost-Effectiveness of "Dynamic" Exome Analysis in Epilepsy with Neurodevelopmental Disorders: A Tertiary-Center Experience in Northern Italy. *Diagnostics*, doi:10.3390/diagnostics11060948
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17. Poloni TE., Medici V., Moretti M., et al.. COVID-19 related neuropathology and microglial activation in elderly with and without dementia. *Brain Pathology,* doi: 10.1111/bpa.12997
18. Rey F.; Marcuzzo S.; Bonanno S.; et al.. LncRNAs Associated with Neuronal Development and Oncogenesis Are Deregulated in SOD1-G93A Murine Model of Amyotrophic Lateral Sclerosis. *Biomedicines,* doi: 10.3390/biomedicines9070809
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22. Johnson JO, **FALS Sequencing Consortium** et al.. Association of Variants in the SPTLC1 Gene With Juvenile Amyotrophic Lateral Sclerosis. *Jama Neurology*, doi: 10.1001/jamaneurol.2021.2598
23. Messa L.; Barzaghini B.; Rey F.; Pandini C.; Zuccotti G.V.; **Cereda C.**; Carelli S.; Raimondi M.T. Neural Precursor Cells Expanded Inside the 3D Micro-Scaffold Nichoid Present Different Non-Coding RNAs Profiles and Transcript Isoforms Expression: Possible Epigenetic Modulation by 3D Growth. *Biomedicines,* doi: 10.3390/biomedicines9091120
24. F. Rey, L. Messa, C. Pandini, et al., Transcriptional characterization of subcutaneous adipose tissue in obesity affected women highlights metabolic dysfunction and implications for lncRNAs, *Genomics*, doi:10.1016/j.ygeno.2021.09.014
25. Pandini C, Garofalo M, Rey F, Garau J, Zucca S, Sproviero D, Bordoni M, Berzero G, Davin A, Poloni TE, Pansarasa O, Carelli S, Gagliardi S, **Cereda C**., MINCR: A long non-coding RNA shared between cancer and neurodegeneration. *Genomics*, doi: 10.1016/j.ygeno.2021.10.008
26. Garofalo M, Gagliardi S, Zucca S, Pandini C, Dragoni F, Sproviero D, Pansarasa O, Poloni TE, Medici V, Davin A, Visonà SD, Moretti M, Guaita A, Ceroni M, Tronconi L, **Cereda C.**, COVID-19 patients and Dementia: Frontal Cortex Transcriptomic Data. *Data in Brief*, doi:10.1016/j.dib.2021.107432
27. Capece G., Ceroni M., Alfonsi E., Palmieri I., **Cereda C.**, Diamanti L. Case Report: Laryngospasm as Initial Manifestation of Amyotrophic Lateral Sclerosis in a Long-Survival Patient with Heterozygous p.D90A - SOD1 Mutation. *Frontiers in Neurology*, doi: 10.3389/fneur.2021.708885
28. Charras A, Garau J, Hofmann SR, Carlsson E, **Cereda C**., Russ S, Abraham S, Hedrich CM. A novel homozygous variant in JAM3 gene causing hemorrhagic destruction of the brain, subependymal calcifcation, and congenital cataracts (HDBSCC) with neonatal onset. *Frontiers in Cell and Developmental Biology*, doi: 10.3389/fcell.2021.746145
29. Rey F, Pandini C, Messa L, Launi R, Barzaghini B, Zangaglia R, Raimondi MT, Gagliardi S, **Cereda C**, Zuccotti GV, Carelli S. α-Synuclein antisense transcript SNCA-AS1 regulates synapses-and aging-related genes suggesting its implication in Parkinson's disease. *Aging Cell*, doi: 10.1111/acel.13504
30. Messa L, Rey F, Pandini C, Barzaghini B, Micheletto G, Raimondi MT, Bertoli S, **Cereda C**, Zuccotti GV, Cancello R, Carelli S. RNA-seq dataset of subcutaneous adipose tissue: Transcriptional differences between obesity and healthy women. *Data in Brief*, doi: 10.1016/j.dib.2021.107647
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33. Guaita A, Brunelli L, Davin A, Poloni TE, Vaccaro R, Gagliardi S, Pansarasa O, Cereda C. Homocysteine, Folic Acid, Cyanocobalamin, and Frailty in Older People: Findings From the "Invece. Ab" Study. *Frontiers In Physiology*, doi: 10.3389/fphys.2021.775803
34. Morasso, C., Ricciardi, A., Sproviero, D. et al. Fast quantification of extracellular vesicles levels in early breast cancer patients by Single Molecule Detection Array (SiMoA). *Breast Cancer Research and Treatment,* doi: 10.1007/s10549-021-06474-3
35. Diamanti L, Bianchi E, Mucaj K, **Cereda C**, Garattini S, Beghi E, Pupillo E. Drug treatments and interactions, disease progression and quality of life in ALS patients, *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, doi: 10.1080/21678421.2021.2019279
36. Bordoni M et al.. 3D Printed Conductive Nanocellulose Scaffolds for the Differentiation of Human Neuroblastoma Cells. *Cells*, doi: 10.3390/cells9030682
37. Garofalo, M.; Pandini, C.; Bordoni, M.; Pansarasa, O.; Rey, F.; Costa, A.; Minafra, B.; Diamanti, L.; Zucca, S.; Carelli, S.; **Cereda, C.**; Gagliardi, S. Alzheimer's, Parkinson's Disease and Amyotrophic Lateral Sclerosis Gene Expression Patterns Divergence Reveals

Different Grade of RNA Metabolism Involvement. *International Journal of Molecular Sciences*. doi: 10.3390/ijms21249500
38. Diamanti L et al.. MRI Study of Paraspinal Muscles in Patients with Amyotrophic Lateral Sclerosis (ALS). *Journal of Clinical Medicine*, doi: 10.3390/jcm9040934
39. Bordoni M; Scarian E, Rey F; Gagliardi S; Carelli S; Pansarasa O; **Cereda C**. Biomaterials in Neurodegenerative Disorders: A Promising Therapeutic Approach. *International journal of molecular sciences*, doi: 10.3390/ijms21093243
40. Poloni TE et al.. Abbiategrasso Brain Bank Protocol for Collecting, Processing and Characterizing Aging Brains. *Journal of Visualized Experiments*, doi: 10.3791/60296.
41. Morasso CF. Sproviero D., Mimmi MC., Giannini M., Gagliardi S., Vanna R., Diamanti L., Bernuzzi S., Piccotti F., Truffi M., Pansarasa O., Corsi F., **Cereda C**. Raman spectroscopy reveals biochemical differences in plasma derived extracellular vesicles from sporadic amyotrophic lateral sclerosis patients. *Nanomedicine: Nanotechnology, Biology and Medicine*, doi: 10.1016/j.nano.2020.102249
42. Rey F. et al.. Dissecting the Effect of a 3D Microscaffold on the Transcriptome of Neural Stem Cells with Computational Approaches: A Focus on Mechanotransduction. *International Journal of Molecular Sciences*, doi: 10.3390/ijms21186775
43. Rey F. et al.. Advances in Tissue Engineering and Innovative Fabrication Techniques for 3-D-Structures: Translational Applications in Neurodegenerative Diseases. *Cells*, doi: 10.3390/cells9071636
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