CURRICULUM VITAE FORMATIVO E PROFESSIONALE

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Nome: STELLA
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FORMAZIONE SCOLASTICA

- **Diploma di maturità scientifica**, conseguita nel 2001 presso il liceo scientifico statale G. Spezia di Domodossola (VB)
- **Laurea di primo livello in Biotecnologie**, conseguita nel 2004 presso l'Università degli Studi di Pavia con la valutazione 98/110
- **Laurea specialistica in Biotecnologie Mediche e Farmaceutiche**, conseguita il 27/09/2006 presso l'Università degli Studi di Pavia con valutazione 106/110
- **Dottorato di Ricerca in Scienze Farmacologiche** conseguito il 17/02/2010 presso l'Università degli Studi di Pavia con esito positivo
- **Scuola di Specializzazione in Patologia Clinica,** conseguito il 29/06/2016 presso l'Università degli Studi di Pavia con esito positivo

ESPERIENZE LAVORATIVE

Ott- 2020-	**Responsabile della Sezione "RNA Biology"**, Unità di Genomica e Post Genomica, IRCCS Fondazione Mondino, Pavia.
Gen 2017-Sett 2020	**Ricercatore Junior,** Unità di Genomica e Post Genomica, IRCCS Fondazione Mondino, Pavia.
Mar 2010 – Dic 2016	**Post-Dottorato,** Laboratorio di Neurobiologia Sperimentale, IRCCS Fondazione Mondino, Pavia, Italy.
Sett 2006 – Feb 2010	**Dottorato in Scienze Farmacologiche** Laboratorio di Neurobiologia Sperimentale, IRCCS Fondazione Mondino, Pavia, e Università degli Studi di Pavia.
Feb 2008 – Mar 2009	**Dottorato in Scienze Farmacologiche** HUMAN BIOMOLECULAR RESEARCH INSTITUTE (HBRI), SAN DIEGO, CA, U.S.A.
Mar 2005 – Sett 2006	**Tirocinio pre-laurea specialistica,** Laboratorio di Biologia Molecolare, Servizio di Virologia, reparto di Malattie infettive, IRCCS Policlinico San Matteo di Pavia.
Mar 2004 – Nov 2004	**Tirocinio pre-Laurea di primo livello,** Laboratorio di Biologia Molecolare , Servizio di Virologia del reparto di Malattie infettive, IRCCS Policlinico San Matteo di Pavia.

CONOSCENZE TECNICHE

Biologia molecolare

- Estrazione DNA da sangue periferico e cellule
- Estrazione RNA da cellule e tessuti
- Quantificazione acidi nucleici mediante spettrofotometro e nanodrop
- Amplificazione di acidi nucleici mediante "Polymerase chain raction" (PCR)
- Analisi degli amplificati di PCR mediante elettroforesi su gel di agarosio e poliacrilamide
- Realizzazione di gel di agarosio e poliacrilamide
- Sequenziamento del DNA mediante l'uso dello strumento ABI 310 Genetic Analyzer
- Genotipizzazione mediante lo strumento Light Cycler 480 Real Time PCR system
- Analisi filogenetica mediante l'uso del programma Clustal W versione 1.7 e MEGA versione 3.1 e mediante Sequencer versione 4.8.
- Analisi Statistica mediante il programma GraphPad Prism (GraphPad Software Inc., San Diego, California).
- Digestioni enzimatiche
- Clonaggio
- Analisi genotipica mediante il test LIPA
- Amplificazione di sequenze di RNA mediante la tecnica NASBA
- Analisi di espressione mediante Q-PCR, Taq-Man e Sybr green
- Analisi mutazionale mediante Denaturing High Performance Liquid Chromatography (DHPLC)
- Analisi quantitativa branched DNA (bDNA)
- Estrazione ed evidenziazione di DNA ed RNA virale nei leucociti del sangue periferico, plasma e campioni clinici
- Preparazione di librerie per analisi di sequenza mediante tecnologia Next Generation Sequencing

Biologia cellulare

- Estrazione linfociti da sangue periferico
- Immortalizzazione cellulare mediante trasformazione con virus EBV
- Preparazione dei terreni di coltura (liquidi e solidi)
- Coltivazione linee cellulare di linfoblasti, fibroblasti, monociti e cellule neuronali
- Conteggio cellulare mediante Trypan Blue
- Trattamenti cellulari (es. perossido di idrogeno, beta amiloide)

Proteomica

- Identificazione di proteine mediante tecniche immunoenzimatiche (ELISA)
- Identificazione e quantificazione proteica mediante Western Blotting
- Purificazione e quantificazione proteica mediante High-performance liquid chromatography HPLC
- Identificazione virale mediante tecniche d'immunofluorescenza diretta (Antigenemia e Viremia)

PUBBLICAZIONI:

1. Rey F, Pandini C, Barzaghini B, Messa L, Giallongo T, Pansarasa O, **Gagliardi S**, Brilli M, Zuccotti GV, Cereda C, Raimondi MT, Carelli S. Dissecting the Effect of a 3D Microscaffold on the Transcriptome of Neural Stem Cells with Computational Approaches: A Focus on Mechanotransduction. Int J Mol Sci. 2020 Sep 15;21(18):E6775. doi: 10.3390/ijms21186775.

2. Stoccoro A, Smith AR, Mosca L, Marocchi A, Gerardi F, Lunetta C, Cereda C, Gagliardi S, Lunnon K, Migliore L, Coppedè F.Reduced mitochondrial D-loop methylation levels in sporadic

amyotrophic lateral sclerosis. Clin Epigenetics. 2020 Sep 11;12(1):137. doi: 10.1186/s13148-020-00933-2.

3. 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. 2020 Jun 27;29:102249. doi: 10.1016/j.nano.2020.102249

4. Bordoni M, Scarian E, Rey F, **Gagliardi S,** Carelli S, Pansarasa O, Cereda C Biomaterials in Neurodegenerative Disorders: A Promising Therapeutic Approach. Int J Mol Sci. 2020 May 4;21(9):3243. doi: 10.3390/ijms21093243.

5. De Mori R, Severino M, Mancardi MM, Anello D, Tardivo S, Biagini T, Capra V, Casella A, Cereda C, Copeland BR, **Gagliardi S**, Gamucci A, Ginevrino M, Illi B, Lorefice E, Musaev D, Stanley V, Micalizzi A, Gleeson JG, Mazza T, Rossi A, Valente EM. Agenesis of the putamen and globus pallidus caused by recessive mutations in the homeobox gene GSX2. Brain. 2019 Oct 1;142(10):2965-2978. doi: 10.1093/brain/awz247.

6. Sproviero D, La Salvia S, Colombo F, Zucca S, Pansarasa O, Diamanti L, Costa A, Lova L, Giannini M, **Gagliardi S**, Lauranzano E, Matteoli M, Ceroni M, Malaspina A, Cereda C. Leukocyte Derived Microvesicles as Disease Progression Biomarkers in Slow Progressing Amyotrophic Lateral Sclerosis Patients. Front Neurosci. 2019 Apr 15;13:344. doi: 10.3389/fnins.2019.00344.

7. Bordoni M, Pansarasa O, Dell'Orco M, Crippa V, **Gagliardi S,** Sproviero D, Bernuzzi S, Diamanti L, Ceroni M, Tedeschi G, Poletti A, Cereda C. Nuclear Phospho-SOD1 Protects DNA from Oxidative Stress Damage in Amyotrophic Lateral Sclerosis. J Clin Med. 2019 May 22;8(5). pii: E729. doi: 10.3390/jcm8050729.

8. Zucca S, **Gagliardi S,** Pandini C, Diamanti L, Bordoni M, Sproviero D, Arigoni M, Olivero M, Pansarasa O, Ceroni M, Calogero R, Cereda C. RNA-Seq profiling in peripheral blood mononuclear cells of amyotrophic lateral sclerosis patients and controls. Sci Data. 2019 Feb 5;6:190006. doi: 10.1038/sdata.2019.6.

9. **Gagliardi S,** Franco V, Sorrentino S, Zucca S, Pandini C, Rota P, Bernuzzi S, Costa A, Sinforiani E, Pansarasa O, Cashman JR, Cereda C. Curcumin and Novel Synthetic Analogs in Cell-Based Studies of Alzheimer's Disease. Front Pharmacol. 2018 Dec 3;9:1404. doi: 10.3389/fphar.2018.01404.

10. **Gagliardi S,** Pandini C, Garofalo M, Bordoni M, Pansarasa O, Cereda C. Long non coding RNAs and ALS: Still much to do. Noncoding RNA Res. 2018 Nov 15;3(4):226-231. doi: 10.1016/j.ncrna.2018.11.004.

11. **Gagliardi S,** Davin A, Bini P, Sinforiani E, Poloni TE, Polito L, Rivoiro C, Binetti G, Paterlini A, Benussi L, Ghidoni R, Vanacore N, Cereda C. A Novel Nonsense Angiogenin Mutation is Associated With Alzheimer Disease. Alzheimer Dis Assoc Disord. 2018 Sep 4. doi: 10.1097/WAD.0000000000000272.

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13. Sproviero D, La Salvia S, Giannini M, Crippa V, **Gagliardi S**, Bernuzzi S, Diamanti L, Ceroni M, Pansarasa O, Poletti A, Cereda C. Pathological Proteins Are Transported by Extracellular Vesicles

of Sporadic Amyotrophic Lateral Sclerosis Patients. **Front Neurosci**. 2018 Jul 19;12:487. doi: 10.3389/fnins.2018.00487.

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17. 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 Nov 8;17(Suppl 12):339. doi: 10.1186/s12859-016-1189-0.

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SLAGEN Consortium Members: Sandra D'Alfonso, Letizia Mazzini, Giacomo P. Comi, Roberto Del Bo, Mauro Ceroni, **Stella Gagliardi**, Giorgia Querin, Cinzia Bertolin

21. Lill CM, Rengmark A, Pihlstrøm L, Fogh I, Shatunov A, Sleiman PM, Wang LS, Liu T, Lassen CF, Meissner E, Alexopoulos P, Calvo A, Chio A, Dizdar N, Faltraco F, Forsgren L, Kirchheiner J, Kurz A, Larsen JP, Liebsch M, Linder J, Morrison KE, Nissbrandt H, Otto M, Pahnke J, Partch A, Restagno G, Rujescu D, Schnack C, Shaw CE, Shaw PJ, Tumani H, Tysnes OB, Valladares O, Silani V, van den Berg LH, van Rheenen W, Veldink JH, Lindenberger U, Steinhagen-Thiessen E; **SLAGEN Consortium**, Teipel S, Perneczky R, Hakonarson H, Hampel H, von Arnim CA, Olsen JH, Van Deerlin VM, Al-Chalabi A, Toft M, Ritz B, Bertram L. 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 Dec;11(12):1407-16.
SLAGEN Consortium Members: Sandra D'Alfonso, Letizia Mazzini, Giacomo P. Comi, Roberto Del Bo, Mauro Ceroni, **Stella Gagliardi**, Giorgia Querin, Cinzia Bertolin

22. Cirulli ET, Lasseigne BN, Petrovski S, Sapp PC, Dion PA, Leblond CS, Couthouis J, Lu YF, Wang Q, Krueger BJ, Ren Z, Keebler J, Han Y, Levy SE, Boone BE, Wimbish JR, Waite LL, Jones AL, Carulli JP, Day-Williams AG, Staropoli JF, Xin WW, Chesi A, Raphael AR, McKenna-Yasek D, Cady J, Vianney de Jong JM, Kenna KP, Smith BN, Topp S, Miller J, Gkazi A; FALS Sequencing Consortium, Al-Chalabi A, van den Berg LH, Veldink J, Silani V, Ticozzi N, Shaw CE, Baloh RH, Appel S, Simpson E, Lagier-Tourenne C, Pulst SM, Gibson S, Trojanowski JQ, Elman L, McCluskey L, Grossman M, Shneider NA, Chung WK, Ravits JM, Glass JD, Sims KB, Van Deerlin VM, Maniatis T, Hayes SD, Ordureau A, Swarup S, Landers J, Baas F, Allen AS, Bedlack RS, Harper JW, Gitler AD, Rouleau GA, Brown R, Harms MB, Cooper GM, Harris T, Myers RM, Goldstein DB. Exome sequencing in amyotrophic lateral sclerosis identifies risk genes and pathways. **Science**. 2015 Mar 27;347(6229):1436-41.
SLAGEN Consortium Members: Sandra D'Alfonso, Letizia Mazzini, Giacomo P. Comi, Roberto Del Bo, Mauro Ceroni, **Stella Gagliardi**, Giorgia Querin, Cinzia Bertolin

23. Bianchi M, Saletti V, Micheli R, Esposito S, Molinaro A, **Gagliardi S**, Orcesi S, Cereda C. Legius Syndrome: two novel mutations in the SPRED1 gene. **Hum Genome Var**. 2015 Dec 3;2:15051.

24. Bradley N. Smith, Nicola Ticozzi, Claudia Fallini, Athina Soragia Gkazi,Simon Topp, Kevin P. Kenna, Emma L. Scotter, Jason Kost, Pamela Keagle,Jack W. Miller, Daniela Calini, Caroline Vance, Eric W. Danielson, Claire Troakes,Cinzia Tiloca, Safa Al-Sarraj, Elizabeth A. Lewis, Andrew King, Claudia, Colombrita, Viviana Pensato, Barbara Castellotti, Jacqueline de Belleroche, Frank, Baas, Anneloor LMA ten Asbroek, Peter C. Sapp, Diane McKenna-Yasek, Russell L., McLaughlin, Meraida Polak, Seneshaw Asress, Jesús Esteban-Pérez , José Luis, Muñoz-Blanco, Michael Simpson, **SLAGEN Consortium**, Wouter van Rheenen, Frank P. Diekstra, Giuseppe Lauria, Stefano Duga, Stefania Corti, Cristina Cereda, Lucia Corrado, Gianni Sorarù, Karen E. Morrison, Kelly L. Williams,Garth A. Nicholson, Ian P. Blair, Claire S. Leblond, Guy A. Rouleau, Orla Hardiman, Jan H. Veldink, Leonard H. van den Berg1, Ammar Al-Chalabi, Hardev Pall, Pamela J. Shaw, Martin R. Turner, Kevin Talbot, Franco Taroni, Alberto García-Redondo, Zheyang Wu, Jonathan D. Glass1, Cinzia Gellera, Antonia Ratti, Robert H. Brown Jr.Vincenzo SilaniChristopher E. Shaw1,John E. Landers. Exome-Wide Rare Variant Analysis Identifies TUBA4A Mutations Associated with Familial ALS. ***Neuron,*** [Epub ahead of print].
SLAGEN Consortium Members: Sandra D'Alfonso, Letizia Mazzini, Giacomo P. Comi, Roberto Del Bo, Mauro Ceroni, **Stella Gagliardi**, Giorgia Querin, Cinzia Bertolin

25. Isabella Fogh, Antonia Ratti Cinzia Gellera, Kuang Lin, Cinzia Tiloca, Valentina Moskvina, Lucia Corrado, Gianni Sorarù, Cristina Cereda, Stefania Corti, Davide Gentilini, Daniela Calini, Barbara Castellotti, Letizia Mazzini, Giorgia Querin, **Stella Gagliardi**, Roberto Del Bo, Francesca Luisa Conforti, Gabriele Siciliano, Maurizio Inghilleri, Francesco Saccà, Silvana Penco, Massimo Corbo, Sandro Sorbi, Massimiliano Filosto Alessandra Ferlini, Anna Maria Di Blasio, Stefano Signorini, Aleksey Shatunov, Ashley Jones, Pamela J Shaw, Karen E Morrison, Anne E. Farmer, Philip Van Damme, Wim Robberecht, Adriano Chiò, Bryan J Traynor, Michael Sendtner, Judith Melki, Vincent Meininger, Orla Hardiman, Peter Andersen, Nigel Leigh, Jonathan D Glass, Daniel Overste, Frank P Diekstra, Jan Veldink, Michael A van Es, Christopher E Shaw, Michael E Weale, Cathryn Lewis, Julie Williams, Robert H Brown, John E Landers, Nicola Ticozzi, Mauro Ceroni, Elena Pegoraro, Giacomo P Comi, Sandra D'Alfonso, Leonard H van den Berg, Franco Taroni, Ammar Al-Chalabi,John Powell and Vincenzo Silani, the SLAGEN Consortium and Collaborators.

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Diamanti L., Gagliardi S., Cereda C., Ceroni M. Genetics of ALS and correlations between genotype and phenotype in ALS: a focus on Italian population. “Current Advances in Amyotrophic Lateral Sclerosis.” book, http://www.intechweb.org/.

H-index: 16 (Scopus Citation Overview)

Oral presentation

"Ruolo dei lncRNAs nelle malattie del Motoneurone" GdL EPIGENETICA, Società SIGU, 26 Febbraio 2019, Milano.

"Dai lncRNAs antisenso alla regolazione dei geni codificanti nella Sclerosi Laterale Amiotrofica" IL METABOLISMO DELL'RNA NELLE MALATTIE NEUROLOGICHE, 6 luglio 2018, Pavia.

"Natural Antisense Transcripts and Long Non-Coding RNAs in Amyotrophic Lateral Sclerosis" XVII Congress SINS, 01-04 October 2017, Ischia.

"Deep RNAs Profiling in Peripheral Blood Mononuclear Cells and Spinal Cord from Sporadic Amyotrophic Lateral Sclerosis Patients" Congresso Nazionale SIGU, Napoli, 15-18 novembre 2017.

"Differentially expressed Antisense RNAs in sporadic Amyotrophic Lateral Sclerosis patients", XLVIII Congresso Sin Napoli 2017.

Moderator at SINdem4Juniors, 5th Winter Seminar on Dementia ane Neurodegenerative Disorders, 18-20 2017 January, Bressanone.

"Differentially expressed lncRNAs in mutated and non-mutated Amyotrophic Lateral Sclerosis patients", XIX Congresso Nazionale SIGU, Torino, 25 Novembre 2016.

"Investigating the involvement of long noncoding RNAs in ALS" VI Annual AriSLA Conference, 14 October 2016, Milan.

"Effect of Curcumins in RNA regulation and in Amyloid Beta Aggregation in Alzheimer's Disease Patients"
XVI Congress SINS, 08-11 October 2015, Cagliari, Italy.

"Regulation of FMO and PON detoxication systems in ALS human tissues" International Conference on Paraoxonases (5PON), July 15-18, 2012, Columbus, Ohio, USA

Memberships in Società Scientifiche

American Society for Neuroscience (SfN)
Italian Association Neuro-Immunology (AINI)
Società Italiana Genetica Umana (SIGU)
Società Italiana di Neuroscienze (SINS)

FINANZIAMENTI

Cariplo Giovani Ricercatori 2017: "Extracellular Vesicles in the pathogenesis of Frontotemporal Dementia". Finanziamento: 100.000 euro

Ricerca Finalizzata 2016, Giovani ricercatori: "Extracellular vesicles RNA: role in Amyotrophic Lateral Sclerosis pathogenesis and in patients". Finanziamento: 105.000 euro

Grants AriSLA Foundation, Pilot grant: “Investigating the involvement of lncRNA in Amyotrophic Lateral Sclerosis”. Finanziamento: 30.000 euro.

ABILITAZIONI SCIENTIFICHE NAZIONALI

Seconda Fascia: 05/I1, Genetica

ATTIVITÀ DI SUPPORTO ALLA DIDATTICA.

Nel periodo 2012-2020 correlatore di 16 tesi in lauree triennali, magistrali afferenti alla facoltàdi scienze dell’Università di Pavia.

- Laurea triennale in Scienze Biologiche: 2
- Laurea Magistrale in Neurobiologia: 5
- Laurea Magistrale in Molecular Biology And Genetics: 6
- Biologia Sperimentale e Applicata: 3

In fede
Stella Gagliardi

Autorizzo il trattamento dei miei dati personali ai fini della Ricerca e Selezione del Personale in ottemperanza al Decreto Legislativo n° 196/2003.