

**Curriculum Vitae**  
**Manuela Basso,**

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**Education**

2008 **Doctor of Philosophy (PhD) in Life Science**  
The Open University Milton Keynes, UK and the Institute of Pharmacological Research Mario Negri, Milan, Italy  
Supervisors: Pamela Shaw and Valentina Bonetto

2002 **Master of Science in Medical Biotechnology**  
School of Medicine, University of Torino, Torino, Italy  
Final grade: 110/110 cum laude and honors

**Current Position**

04/11/2018-03/11/2021 **Assistant Professor, RTD-B.** Department of Cellular, Computational and Integrative Biology - CIBIO  
University of Trento/Italy

**Past positions**

2013 – 2018	<b>Assistant Professor</b>	Ricercatore Linea A. Department of Cellular, Computational and Integrative Biology - CIBIO University of Trento/Italy
2012-2013	<b>Instructor</b>	The Brain and Mind Institute, Cornell University, NY, USA PI: <b>Dr. Rajiv R. Ratan</b> Transcriptional biology and neurobiology
2009-2012	<b>Postdoctoral Fellow</b>	Burke-Cornell Medical Research Institute PI: <b>Dr. Rajiv R. Ratan</b> Neurobiology; Homeostasis
2008	<b>Visiting Scientist</b>	Burke-Cornell Medical Research Institute PI: <b>Dr. Alvaro Estevez</b> Motor neuron biology

**Organization of Scientific Meetings**

13/03/2020 – 14/03/2020 **Italian meeting on Kennedy's disease.** Milan. Italy

26/09/2019 – 29/09/2019 Chair of the symposium: The RNA-biology of Motor Neuron diseases.  
**Società Italiana di Neuroscienze.** Perugia, Italy

4/07/2019 – 5/07/2018 Chair of the session: Preclinical studies. **Focus on heterogeneity of Amyotrophic Lateral Sclerosis.** Milan, Italy

5/10/2018 – 6/10/2018 Chair of the session: Molecular mechanisms of Kennedy's disease. **Italian meeting on Kennedy's disease.** Padova. Italy

30/09/2013 – 04/10/2013 Scientific Organizer, **AxAlpS, The core of neuronal communication: axonal biology, degeneration and regeneration,** Cavalese (TN), Italy

23/01/2006 – 25/01/2006

Member of the Scientific Committee, 4<sup>th</sup> Joint PhD Student Workshop / Riva del Garda (TN), Italy

### Local Teaching and Training

#### **Direct supervision of Students and Postdoctoral Fellows as PI**

##### Postdoctoral fellows

Alice Migazzi (2019-present), Laura Pasetto and Alessandro Corbelli (IRFMN, 2019-present), Debasmitha Tripathy (2016-2018), Alessandro Roncador (2014-2015)

##### PhD students

Luisa Donini (2021- present), Paolo Fioretti (2020- present), Deborah Ferrara (2018-2020), Alice Migazzi (2015-2019)

##### Predocctoral students

Valerio Zenatti (2022-present), Anna Barbieri (2022-present), Angela Bonadiman (2018-2020), Guendalina Tonidandel (2017), Silvia Chiera (2017), Deborah Ferrara (2017)

##### Master students

Laryssa Alver Borba (2022), Silvia Del Longo (2021-2022), Osvaldo Sanchez (2019), Jessica Corsi (2018), Zelia Corradi (2018), Alice Migazzi (2015), Federica Costa (2015), Monica Zanca (psicologia, 2015)

##### Bachelor students

Alessia Moruzzi (2016), Davide Golzato (2016), Michele Tebaldi (2016), Clara D'Ambra (2017), Guendalina Tonidandel (2017), Guendalina Bergonzoni (2018), Ilaria Signoria (2018), Jacopo Gelmetti (2018), Elisa Biada (2019), Silvia Del Longo (2019), Simone Ferrari (2019), Lorenzo Volpini (2020), Elisa Balidini (2021)

### Teaching Activities

2014-2015	Course in Biology of Organisms at the Bachelor degree (43 hours) Course in Neurodegenerative diseases at the PhD program (6 hours)
2015-2016	Course in Biology of Organisms at the Bachelor degree (85 hours)
2016-2017	Course in Biology of Organisms at the Bachelor degree (85 hours)
2017-2018	Course in Biology of Organisms at the Bachelor degree (62 hours) Course in Neurodegenerative diseases at the Master degree (4 hours)
2018-2019	Course in Neurodegenerative diseases at the Master degree (48 hours) Course in Muscle Adaptation to hypoxia (24 hours)
2019-2020	Course in Neurodegenerative diseases at the Master degree (48 hours) Course in Muscle Adaptation to hypoxia (24 hours)
2020-2021	Course in Neurodegenerative diseases at the Master degree (48 hours) Course in Muscle Adaptation to hypoxia (24 hours)
2021-2022	Course in Neurodegenerative diseases at the Master degree (48 hours) Course in Muscle Adaptation to hypoxia (24 hours) Course in Protein Technologies and Proteomics (24hours) Course in Molecular Biology at the Bachelor degree (32hours)

### Institutional responsibilities

2018-Present	Coordinator of the Master degree in Cellular and Molecular Biotechnology, University of Trento
2018	Organizer of the meetings from the Bench to the Clinics (monthly seminars between Academia and the local Hospital)
2014-2018	CIBIO Delegate for the Linguistic Centre of the Atheneum (CLA)
2013-Present	Faculty at the University of Trento, Dep. CIBIO
2012-2013	Instructor at the Weill Medical College, Cornell University, NY, USA

### Commissions of Trust (last 5 years)

2022	<i>Editorial board:</i> Scientific Reports, Frontiers in Genetics, Frontiers in Aging <i>Reviewer for the Journal:</i> Brain, The journal of neuroscience. <i>Reviewer for the grant agency:</i> The Alzheimer's association.
2021	<i>Editorial board:</i> Scientific Reports, Frontiers in Genetics, Frontiers in Aging <i>Reviewer for the Journal:</i> Brain, Scientific Reports, Science Advances, Advanced Drug Delivery

- Reviews, *Neurochemistry International*, *Journal of Extracellular Vesicles*, *Journal of Translational medicine*, *Free Radical Biology and Medicine*  
*Reviewer for the grant agency*: The Alzheimer's association, FARA, National Science Center Poland
- 2020  
*Editorial board*: *Scientific Reports*, *Frontiers in Genetics*, *Frontiers in Aging*  
*Reviewer for the Journal*: *Brain*, *Scientific Reports*, *Glia*
- 2019  
*Reviewer for the grant agency*: The MND Association, The UK dystrophy association, AFM Telethon  
*Editorial board*: *Scientific Reports*, *Frontiers in Genetics*  
*Reviewer for the Journal*: *Brain*, *Scientific Reports*, *Stem Cell Reviews*, *Neuroscience*, *Glia*, *The Journal of Neuroscience Research*, *The Journal of Neuroscience*  
*Reviewer for the grant agency*: The Alzheimer's association, Marie Skłodowska-Curie Individual fellowships
- 2018  
*Reviewer for the Journal*: *Brain*, *Annals of Clinical and Translational Neurology*, *Neurochemistry International*, *Neuroscience*, *The American Journal of Pathology*, *Brain Research Bulletin*, *The Journal of Neuroscience*, *Disease Markers*  
*Reviewer for the grant agency*: Alzheimer's association
- 2017  
*Reviewer for the Journal*: *Neuroscience*, *Molecular Cellular Neuroscience*, *Neuroinflammation*, *Scientific Reports*, *The Journal of Neuroscience*, *Drug Discovery Today*, *Molecular Neurobiology*, *Frontiers Neuroscience*.  
*Reviewer for the grant agency*: The Downhill Medical Trust (UK), MND Association (UK), Human Frontiers HFSP Fellowships (France)
- 2016  
*Reviewer for the Journal*: *Neuroscience*, *Biomaterials*, *Experimental Neurology*, *Scientific Reports*  
*Reviewer for the grant agency*: Thierry Latran, Alzheimer's Association

#### **Memberships of Scientific Societies (last 5 years)**

- 2018-present Member of the Associazione Italiana di Biologia e Genetica (AIBG)  
 2016-present Member of the Italian Society of Neuroscience  
 2008- 2013 Member, Society for Neuroscience

#### **Past Funding**

Title: RNA-mediated intercellular miscommunication: role of extracellular vesicle cargos in Amyotrophic Lateral Sclerosis  
 Agency: Marie-Sklodowska Curie Actions, European Research Council

Role: Principal Investigator

Period: April 2017-March 2019

Gross amount: €180,277.20

Title: Epigenetic regulators affecting Transglutaminase 1 and 2 transcriptional levels in Alzheimer's disease.

Agency: Trento Alzheimer Onlus, Italy

Period: November 2013-October 2016

Role: Principal Investigator

Gross amount: €99,153.41.

Title: Innovative multidisciplinary approach to neurodegeneration: the impact of chloride signalling dysregulation

Agency: University of Trento

Period: September 2015-February 2017

Role: Young Co-Principal Investigator

Gross amount: €140,000.

Title: Homeostatic responses in neurodegeneration.

Start-up package CIBIO, University of Trento

Period: January 2014-December 2016

Gross amount: €65,000 in consumables and three years postdoctoral fellowship

Title: Targeting PRMT6 to attenuate spinal and bulbar muscular atrophy: a silencing approach

Agency: Kennedy Disease Association (USA)

Role: Principal Investigator

Period: February 2017-January 2019

Gross amount: \$50,000

Title: Targeting PRMT6 to attenuate spinal and bulbar muscular atrophy: a silencing approach

Agency: AFM Telethon (France)

Role: Principal Investigator

Period: July 2017-December 2018

Gross amount: €49,236

Title: Deciphering the pathophysiology of SCA35

Agency: The National Ataxia Foundation (USA)

Role: Principal Investigator: commitment 30%

Period: January 2018-June 2020

Gross amount: \$20,000

### **Ongoing Funding**

Title: Extracellular vesicles RNA: role in Amyotrophic Lateral Sclerosis pathogenesis and in patients profiling

Agency: Ministero Salute GR-2016-02361552

Role: Coordinator of three Units (€450,000 in total): commitment 30% at the Mario Negri Institute, Milan, Italy

Period: March 2019-June 2022

Gross amount: €259,000

Intramural Fundings

Period: January 2021-December 2021

Gross amount: €10,000

Title: Targeting AR cofactors to attenuate spinal and bulbar muscular atrophy

Agency: AFM Telethon (France)

Role: co-PI

Period: March 2019-October 2022

Goal: To identify a genetic strategy to silence PRMT6 and LSD1 in vivo

Gross amount: €120,000

Title: Diagnostic screening for neurodegenerative diseases

Agency: Fondazione VRT

Role: Principal Investigator

Period: March 2021-September 2021

Gross amount: €25,000

Title: A drug repurposing strategy to inhibit AR transcriptional coactivators as a therapeutic approach in SBMA

Agency: Kennedy's Disease Association (USA)

Role: Principal Investigator

Period: July 2021-June 2023

Gross amount: \$50,000

Title: A mechanism-based gene therapy approach for TDP-43 proteinopathies: a proof-of-concept study in frontotemporal dementia and traumatic brain injury

Agency: CARIPLO Giovani ricercatori

Role: Co-PI

Period: October 2021-September 2024

Gross amount: €87,000

Title:

Agency: ARISLA

Role: PI

Period: April 2022-March 2015

Gross amount: €

Title:

Agency: ARISLA

Role: PI

Period: April 2022-March 2015

Gross amount: €

### **List of Invited or selected Speaker at Conferences, Workshops and Seminars (last 5 years)**

September 2021: Decoding distinctive features of plasma extracellular vesicles in amyotrophic lateral sclerosis, 2<sup>nd</sup> EVIta Symposium

September 2021: An altered extracellular vesicle protein cargo drives the (mis)communication between astrocytes and neurons in ALS, 19th SINS National Congress

November 2019: Intercellular miscommunication in the brain and periphery: characterization of extracellular vesicle in Amyotrophic Lateral Sclerosis. EVITA, Palermo, Italy.

April 2019: Extracellular vesicles and the intercellular communication in neurodegenerative disease. Spring Meeting. University of Ulm. Germany.

April 2019: Arginine methylation: a novel post translational modification that impacts huntingtin function in Huntington's disease. Seminar series. Burke neurological institute, White Plains, NY, USA

March 2019: Characterization of plasma extracellular vesicles as a mean for patient profiling. Workshop on Converging micro-nano-bio technologies towards integrated biomedical systems, Roncegno (TN), Italy

February 2019: Targeting PRMT6 to attenuate spinal and bulbar muscular atrophy: a silencing approach. Toward a European Consortium for SBMA. European Neuromuscular Centre. Amsterdam, The Netherlands.

June 2018: Beyond TG2 in Neurodegeneration - TG6 Loss and Gain of Function in Spinocerebellar Ataxia 35. Transglutaminases in Human Disease Processes. Gordon Research Conference. Switzerland.

February 2017: Extracellular RNA and biomarker discovery: the contribution of extracellular vesicles. miRNA DisEASY – Workshop. Trento.

June 2016: Role of extracellular vesicles and their associated cargos in health and disease. EMBO course. Regulatory small and long non-coding RNAs: Durat et Lucet.

### Honor and Prizes

2019	Best poster award at the Decennale ARISLA, Milan, Italy
2017	Recipient of the Trampoline grant 2016 from the French Muscular Dystrophy Association (AFM, France)
2017	Recipient of the Marie Skłodowska-Curie Individual Fellowship (RI panel)
2016	Recipient of the Young Investigator Award from the Kennedy's disease association (USA)
2016	Travel award, National ataxia Foundation meeting, Orlando, USA
2015	Travel award for the Italian Symposium on Neuroscience (SINS), Cagliari, Italy.
2013	Travel award for the International Society of Neurochemistry, Cancun, Mexico and selected speaker for the Young Investigator Colloquia.
2012	Poster award at the annual Burke Research Medical Institute contest, Weill Medical College, Cornell University, White Plains, NY, USA
2006 -2007	PhD (Leonardi) Fellowship, Mario Negri Institute, Milan, Italy
2003-2006	PhD Fellowship from the Dulbecco Telethon Institute, Italy
2002	Magna cum laude and Honors, University of Torino, Italy

### List of publications

My bibliographic records are: **51** original papers and **1** book chapter.

My **H-index** is **24** according to Scopus with **2201** citation as February 14<sup>th</sup>, 2021.

- 2021 Pasetto L, Grassano M, Pozzi S, Luotti S, Sammalı E, Migazzi A, **Basso M**, Spagnoli G, Biasini E, Micotti E, Cerovic M, Carli M, Forloni G, De Marco G, Manera U, Moglia C, Mora G, Traynor BJ, Chiò A, Calvo A, Bonetto V. Defective cyclophilin A induces TDP-43 proteinopathy: implications for amyotrophic lateral sclerosis and frontotemporal dementia. *Brain*. 2021 Dec 31;144(12):3710-3726. doi: 10.1093/brain/awab333. PMID: 34972208; PMCID: PMC8719849.
- 2021 Pasetto L, Callegaro S, Corbelli A, Fiordaliso F, Ferrara D, Brunelli L, Sestito G, Pastorelli R, Bianchi E, Cretich M, Chiari M, Potrich C, Moglia C, Corbo M, Sorarù G, Lunetta C, Calvo A, Chiò A, Mora G, Pennuto M, Quattrone A, Rinaldi F, D'Agostino VG, **Basso M**#, Bonetto V#. Decoding distinctive features of plasma extracellular vesicles in amyotrophic lateral sclerosis. # **Co-last and co-corresponding author**. *Molecular Neurodegeneration*. 16, 52 (2021). <https://doi.org/10.1186/s13024-021-00470-3>
- 2021 Marsili, L., Sharma, J., Espay, A.J., Migazzi, A., Abdelghany, E., Hill, E.J., Duque, K.R., Hagen, M.C., Stephen, C.D., Kovacs, G.G., Lang, A.E., Hadjivassiliou, M., **Basso, M.**, Kauffman, M.A., Sturchio, A. Neither a novel tau proteinopathy nor an expansion of a phenotype: Reappraising clinicopathology-based nosology (2021) *International Journal of Molecular Sciences*, 22 (14).



- 2021 Migazzi A, Scaramuzzino C, Andreson N, Tripathy D, Hernandez I, Grant, Rocuzzo M, Tosatto L, Virlogeux A, Zuccato C, Caricasole A, Ratovitski T, Ross C, Pandey U, Saudou F, Pennuto M, **Basso M**. Huntingtin-Mediated axonal transport requires arginine methylation by PRMT6. *Cell Reports*, Volume 35, Issue 2, 108980 2021.
- 2021 Martínez-Rojas VA, Jiménez-Garduño AM, Michelatti D, Tosatto L, Marchioretto M, Arosio D, **Basso M**, Pennuto M, Musio C. CIC-2-like Chloride Current Alterations in a Cell Model of Spinal and Bulbar Muscular Atrophy, a Polyglutamine Disease. *J Mol Neurosci* 2021;71:662–74. <https://doi.org/10.1007/s12031-020-01687-5>.
- 2020 Manini A, Bocci T, Migazzi A, Monfrini E, Ronchi D, Franco G, De Rosa A, Sartucci F, Priori A, Corti S, Comi GP, Bresolin N, **Basso M**, Di Fonzo A. A case report of late-onset cerebellar ataxia associated with a rare p.R342W TGM6 (SCA35) mutation. *BMC Neurol*. 2020 Nov 7;20(1):408. doi: 10.1186/s12883-020-01964-1. PMID: 33160304; PMCID: PMC7648302.
- 2020 Notarangelo M, Ferrara D, Potrich C, Lunelli L, Vanzetti L, Provenzani A, **Basso M**, Quattrone A. and D'Agostino VG. Rapid Nickel-based Isolation of Extracellular Vesicles from Different Biological Fluids. *Bio-protocol* 2020;10(3):e3512.
- 2020 Tripathy D, Migazzi A, Costa F, Roncador A, Gatto P, Fusco F, Boeri L, Albani D, Juárez-Hernández JL, Musio C, Colombo L, Salmona M, Wilhelmus MMM, Drukarch B, Pennuto M, **Basso M**. Increased Transcription of Transglutaminase 1 Mediates Neuronal Death in in Vitro Models of Neuronal Stress and Aβ1-42-mediated Toxicity. *Neurobiol Dis*. 2020 Jul;140:104849. doi: 10.1016/j.nbd.2020.104849. Epub 2020 Mar 25.
- 2020 Chivet M, Marchioretto C, Pirazzini M, Piol D, Scaramuzzino C, Polanco MJ, Romanello V, Zuccaro E, Parodi S, D'Antonio M, Rinaldi C, Sambataro F, Pegoraro E, Soraru G, Pandey UB, Sandri M, **Basso M**, Pennuto M. Polyglutamine-Expanded Androgen Receptor Alteration of Skeletal Muscle Homeostasis and Myonuclear Aggregation Are Affected by Sex, Age and Muscle Metabolism. *Cells*. 2020 Jan 30;9(2). pii: E325. doi: 10.3390/cells9020325.
- 2020 Torretta S, Rampino A, **Basso M**, Pergola G, Di Carlo P, Shin JH, Kleinman JE, Hyde TM, Weinberger DR, Masellis R, Blasi G, Pennuto M, Bertolino A. NURR1 and ERR1 modulate the expression of genes of a DRD2 co-expression network enriched for schizophrenia risk. *J Neurosci*. 2019 Dec 6. pii: 0786-19. doi: 10.1523/JNEUROSCI.0786-19.2019.
- 2018 Franich NR, **Basso M**, André EA, Ochaba J, Kumar A, Thein S, Fote G, Kachemov M, Lau AL, Yeung SY, Osmand A, Zeitlin SO, Ratan RR, Thompson LM, and Steffan JS. Striatal mutant Huntingtin protein levels decline with age in homozygous Huntington's disease knock-in mouse models. *J Huntingtons Dis*. 2018;7(2):137-150. doi: 10.3233/JHD-170274.
- 2018 **Basso M**, Chen HH, Tripathy D, Conte M, Apperley KYP, De Simone A, Keillor JW, Ratan R, Nebbioso A, Sarno F, Altucci L, Milelli A. Designing Dual Transglutaminase 2/Histone Deacetylase Inhibitors Effective at Halting Neuronal Death. *ChemMedChem*. Feb 6;13(3):227-230. doi: 10.1002/cmde.201700601.
- 2017 Tripathy D; Vignoli B; Ramesh N; Polanco MJ; Coutelier M; Stephen CD; Canossa M; Monin ML; Aeschlimann P; Turberville S; Aeschlimann D; Schmahmann JD; Hadjivassiliou M; Durr A; Pandey UB; Pennuto M; **Basso M**. Mutations in TGM6 induce the unfolded protein response in SCA35. *Human Molecular Genetics*;26(19):3749-3762. doi: 10.1093/hmg/ddx259.
- 2017 De Simone A, Bartolini M, Baschieri A, Apperley KYP, Chen HH, Guardigni M, Montanari S, Koblrova T, Soukup O, Valgimigli L, Andrisano V, Keillor JW, **Basso M**, Milelli A. Hydroxy-substituted trans-cinnamoyl derivatives as multifunctional tools in the context of Alzheimer's disease. *Eur J Med Chem*.;139:378-389. doi: 10.1016/j.ejmech.2017.07.058.
- 2017 Jimenez Garduno AM, Juarez-Hernandez LJ, Polanco MJ, Tosatto L, Michelatti D, Arosio D, **Basso M**, Pennuto M, Musio C. Altered ionic currents and amelioration by IGF-1 and PACAP in motoneuron-derived cells modelling SBMA. *Biophys Chem*.;229:68-76. doi: 10.1016/j.bpc.2017.05.003.
- 2017 Pasetto L, Pozzi S, Castelnovo M, **Basso M**, Estevez AG, Fumagalli S, De Simoni MG, Castellaneta V, Bigini P, Restelli E, Chiesa R, Trojsi F, Monsurrò MR, Callea L, Malešević M, Fischer G, Freschi M, Tortarolo M, Bendotti C, Bonetto V. Targeting Extracellular Cyclophilin A Reduces Neuroinflammation and Extends Survival in a Mouse Model of Amyotrophic Lateral Sclerosis. *J Neurosci*.;37(6):1413-1427. doi: 10.1523/JNEUROSCI.2462-16.2016.
- 2015 Scaramuzzino C, Casci I, Parodi S, Lievens P, Milioto C, Polanco MJ, Chivet M, Roilo S, Mishra A, Badders N, Aggarwal T, Grunseich C, Sambataro F, **Basso M**, Fackelmayer OF, Taylor JP, Pandey U, Pennuto M. Protein arginine methyltransferase 6 enhances polyglutamine-expanded androgen receptor function and toxicity in spinal and bulbar muscular atrophy. *Neuron*, 7;85(1):88-100. doi: 10.1016/j.neuron.2014.12.031.

- 2015 Aleyasin H, Kumar A, Karuppagounder S, Sleiman S, **Basso M**, Ma T, Siddiq A, Brochier C, Langley B, Haskew-Layton R, Payappilly J, Guo H, Bane S, Gazaryan I, Starkov A, and Ratan RR. Anthelmintic benzimidazoles activate hypoxic adaptation and neuroprotection by binding to tubulin. *Antioxid Redox Signal*. 10;22(2):121-34.
- 2014 Sleiman SF, Bourassa M, Olson D, Karapagounder SK, **Basso M**, Coppola G, Pinto JT, Holson E, and Ratan RR. Hydroxamic acid based HDAC inhibitors can mediate neuroprotection independent of HDAC inhibition. *The Journal of Neuroscience* 22;34(43):14328-37.
- 2014 Prusevich P, Kalin J, Ming, **Basso M**, Givens J, Li X, Hu J, Taylor M, Cieniewicz A, Hsiao P, Huang R, Roberson H, Adejola N, Avery L, Casero R, Taverna S, Qian J, Tackett A, Ratan R, McDonald O, Feinberg A, Cole PA, Selective Phenelzine Analog Inhibitor of Histone Demethylase LSD1. *ACS Chem Biol*. 20;9(6):1284-93.
- 2013 Franco MC, Ye Y, Refakis CA, Feldman JL, Stokes AL, **Basso M**, Melero Fernandez de Mera RM, Sparrow NA, Calingasan NY, Kiaei M, Rhoads TW, Ma TC, Grumet M, Barnes S, Beal MF, Beckman JS, Mehl R, Estevez AG. Nitration of Hsp90 induces cell death. *Proceedings of the National Academy of Sciences of the United States of America* 110(12): E1102-1111. doi: 10.1073/pnas.1215177110. Epub 2013 Mar 4.
- 2013 Speer RE, Karuppagounder SS, **Basso M**, Sleiman SF, Kumar A, Brand D, Smirnova N, Gazaryan I, Khim SJ, Ratan RR. Hypoxia-inducible factor prolyl hydroxylases as targets for neuroprotection by "antioxidant" metal chelators: From ferroptosis to stroke. *Free radical biology & medicine* 62: 26-36. Review.
- 2013 **Karuppagounder SS\***, **Basso M\***, Sleiman SF, Ma TC, Speer RE, Smirnova NA, Gazaryan IG, Ratan RR. In vitro ischemia suppresses hypoxic induction of hypoxia-inducible factor-1alpha by inhibition of synthesis and not enhanced degradation. *Journal of neuroscience research* 91(8): 1066-1075. (\*first-name coauthorship).
- 2013 **Basso M\***, Pozzi S\*, Tortarolo M, Fiordaliso F, Bisighini C, Pasetto L, Spaltro G, Lidonni D, Gensano F, Battaglia E, Bendotti C, Bonetto V. Mutant copper-zinc superoxide dismutase (SOD1) induces protein secretion pathway alterations and exosome release in astrocytes: implications for disease spreading and motor neuron pathology in amyotrophic lateral sclerosis. *The Journal of biological chemistry* 288(22): 15699-15711. (\*first-name coauthorship).
- 2012 **Basso M#**, Berlin J, Xia L, Sleiman SF, Ko B, Haskew-Layton R, Kim E, Antonyak MA, Cerione RA, Iismaa SE, Willis D, Cho S, Ratan RR#. Transglutaminase inhibition protects against oxidative stress-induced neuronal death downstream of pathological ERK activation. *The Journal of neuroscience : the official journal of the Society for Neuroscience* 32:6561-6569. doi: 10.1523/JNEUROSCI.3353-11.2012 (# corresponding authorship).
- 2011 Smirnova NA, Haskew-Layton RE, **Basso M**, Hushpulia DM, Payappilly JB, Speer RE, Ahn YH, Rakhman I, Cole PA, Pinto JT, Ratan RR, Gazaryan IG. Development of Neh2-luciferase reporter and its application for high throughput screening and real-time monitoring of Nrf2 activators. *Chemistry & biology* 18:752-765. doi: 10.1016/j.chembiol.2011.03.013.
- 2011 Sleiman SF, Berlin J, **Basso M**, Karuppagounder SS, Rohr J, Ratan RR. Histone Deacetylase Inhibitors and Mithramycin A Impact a Similar Neuroprotective Pathway at a Crossroad between Cancer and Neurodegeneration. *Pharmaceuticals* 4:1183-1195.
- 2011 Sleiman SF, Langley BC, **Basso M**, Berlin J, Xia L, Payappilly JB, Kharel MK, Guo H, Marsh JL, Thompson LM, Mahishi L, Ahuja P, MacLellan WR, Geschwind DH, Coppola G, Rohr J, Ratan RR. Mithramycin is a gene-selective Sp1 inhibitor that identifies a biological intersection between cancer and neurodegeneration. *The Journal of neuroscience : the official journal of the Society for Neuroscience* 31:6858-6870.
- 2010 Sahawneh MA, Ricart KC, Roberts BR, Bomben VC, **Basso M**, Ye Y, Sahawneh J, Franco MC, Beckman JS, Estevez AG. Cu,Zn-superoxide dismutase increases toxicity of mutant and zinc-deficient superoxide dismutase by enhancing protein stability. *The Journal of biological chemistry* 285:33885-33897.
- 2010 Smirnova NA, Rakhman I, Moroz N, **Basso M**, Payappilly J, Kazakov S, Hernandez-Guzman F, Gaisina IN, Kozikowski AP, Ratan RR, Gazaryan IG. Utilization of an in vivo reporter for high throughput identification of branched small molecule regulators of hypoxic adaptation. *Chemistry & biology* 17:380-391.
- 2010 Niatsetskaya Z, **Basso M**, Speer RE, McConoughey SJ, Coppola G, Ma TC, Ratan RR. HIF prolyl hydroxylase inhibitors prevent neuronal death induced by mitochondrial toxins: therapeutic implications for Huntington's disease and Alzheimer's disease. *Antioxidants & redox signaling* 12:435-443.
- 2010 **McConoughey SJ\***, **Basso M\*\***, Niatsetskaya ZV, Sleiman SF, Smirnova NA, Langley BC, Mahishi L, Cooper AJ, Antonyak MA, Cerione RA, Li B, Starkov A, Chaturvedi RK, Beal MF, Coppola G, Geschwind DH, Ryu H, Xia L, Iismaa SE, Pallos J, Pasternack R, Hils M, Fan J, Raymond LA, Marsh JL, Thompson LM, Ratan RR. Inhibition of transglutaminase 2 mitigates transcriptional dysregulation in models of Huntington disease. *EMBO molecular medicine* 2:349-370. doi: 10.1002/emmm.201000084. (\*first-name coauthorship; # corresponding authorship).
- 2009 Nardo G, Pozzi S, Mantovani S, Garbelli S, Marinou K, **Basso M**, Mora G, Bendotti C, Bonetto V. Nitroproteomics of peripheral blood mononuclear cells from patients and a rat model of ALS. *Antioxidants & redox signaling* 11:1559-1567. doi: 10.1089/ARS.2009.2548.
- 2009 **Basso M**, Samengo G, Nardo G, Massignan T, D'Alessandro G, Tartari S, Cantoni L, Marino M, Cheroni C, De Biasi S, Giordana MT, Strong MJ, Estevez AG, Salmona M, Bendotti C, Bonetto V. Characterization of detergent-insoluble proteins in ALS indicates a causal link between nitrate stress and aggregation in pathogenesis. *PLoS one* 4:e8130. doi: 10.1371/journal.pone.0008130.

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***Informativa ai sensi dell'art.13 del D.Lgs 196/2003:***

*i dati sopra riportati sono prescritti dalle disposizioni vigenti ai fini del procedimento per il quale sono richiesti e verranno utilizzati esclusivamente per tale scopo.*

Luogo e data, Trento 14.02.2022

Firma\_

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