

Dario Brunetti CV



Personal information

Surname: **Brunetti** Name: **Dario**
Date of birth: **11/11/1979**
Place of birth: **Siracusa (SR) – Italy**
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Address:

- (1) Mitochondrial Medicine Laboratory, Department of Medical Biotechnology and Translational Medicine, University of Milan, Via Vanvitelli 32, 20123 Milan, Italy
- (2) Molecular Pathogenesis of Mitochondrial Disorders, Unit of Medical Genetics and Neurogenetics, Fondazione IRCCS Istituto Neurologico "C.Besta", Via Temolo 4, 20126 Milan, Italy

Biosketch

Dr. Brunetti started his scientific career in 2004 working with Professor Cesare Galli at the Laboratory of Reproductive Technologies, (now Avantea srl, Cremona, Italy) until 2010, when he received his Ph.D. in Biotechnology at the University of Milan. During this experience, he developed a strong background in the field of embryology, stem cell biology and in the production of large GM animal models.

His research activity carried out in this period improved the techniques to produce GM large animal models becoming a milestone in this research field (Brunetti et al. 2008 Cloning and Stem Cells; Galli et al. 2010 Xenotransplantation 17:397-410 Cozzi, E et al. Xenotransplantation 16 (6), 544-544). GM large animal models generated by Dr. Brunetti were used by different research groups to study:

- Molecular mechanisms of hyperacute rejection and new immunosuppressive drugs
- Pathogenesis of genetic and degenerative diseases
- Experimental surgery where syngeneic animals are required
- Development of new cell therapies, using singular animals carrying different marker genes.

From 2010 to 2013, he was a Postdoctoral Research Scientist at the Molecular Neurogenetics Unit of the Neurological Institute C. Besta in Milan. Here, under the supervision of Dr. Valeria Tiranti he worked for a Telethon project (GGP 11088) aimed at investigating the molecular basis of the Neurodegeneration with Brain Iron Accumulation syndrome (omim: #234200) by exploiting a knock-out mouse model for

the PANK2 gene, which encodes a mitochondrial enzyme involved in the synthesis of Coenzyme A and whose mutations cause NBIA syndrome in humans. He demonstrated the primary role of the mitochondrial dysfunction in this neurodegenerative disease, elucidating the molecular mechanisms (Brunetti et al 2012 *Hum Mol Gen* 24:5294-305), and opening new avenues for the therapeutic treatment based on the use of Panthetine (Brunetti et al. *Brain* 37:57-68, 2014; Németh AH, *Brain* 37:8-11, 2014).

In order to improve his skills in the field of Mitochondrial Medicine, in 2013 he moved to the Mitochondrial Medicine Laboratory of the Mitochondrial Biology Unit (MBU) - University of Cambridge (UK), under the supervision of Dr. Massimo Zeviani. At the MBU he worked as Investigator Scientist on two challenging projects. The first was aimed at generating and characterizing a knockout swine model for SURF1, a gene involved in the assembly of respiratory complex IV and responsible for the rare genetic disease called Leigh Syndrome (omim: #25600). This was one of the first animal models created using the CRISPR/Cas9 technology. This study opened new perspectives on the physiological roles Surf1 might play (Quadalti*, Brunetti* et al 2018 *Biochim Biophys Acta* 1864:2131-2142). The second project involved the study of the molecular mechanisms of a new mitochondrial neurodegeneration syndrome due to mutation in Pitrm1 gene, recently found mutated in two patients affected by progressive ataxia and cognitive impairment. Using cell and animal models, Dr Brunetti made original observations, linking Pitrm1 to A β amyloidotic neurodegeneration (Brunetti et al 2016 *Embo Mol Med* 8(3):176-90; Langer et al 2018 *J Med Genet* 55(9):599-60). This study opened new perspective on the pathophysiology and designing treatment for adult-onset neurodegenerative conditions (Boczonadi V, Horvath R. *EMBO Mol Med*. 8:173-5, 2016).

In January 2018 he won the Umberto Veronesi Fellowship and he moved to the Department of Medical Biotechnology and Translational Medicine, University of Milan.

He got the National Qualification as Associate Professor of Applied Biology in 2018. In January 2019 he started to work as Research Scientist RTD-A on different projects aimed to develop new treatment for mitochondrial disease.

Current position

28/12/2018-present: Research Scientist RTD-A SSD Pharmacology (BIO/14)

Department of Medical Biotechnology and Translational Medicine, University of Milan

Translational and preclinical research activity:

- Understanding the role of dysregulated Frataxin in the pathogenesis of PITRM1-dependent Spinocerebellar Ataxia
- Understanding the role of mitochondrial dysfunction in the pathogenesis of the neuromuscular and metabolic disease in aging.
- Evaluate the effect of different drugs and nutraceutical compounds in the stimulation of mitochondrial biogenesis and quality control as a therapeutic target in different disease (Genetic mitochondrial disease, Sarcopenia and other myopathies; Cognitive decline).
- Development of an In Utero Fetal Gene Therapy to treat Leigh syndrome

Previous positions

01/01/2018-27/12/2018: Visiting Scientist (Umberto Veronesi Foundation

Fellowship) Department of Medical Biotechnology and Translational Medicine, University of Milan.

Translational and preclinical research activity:

- Understanding the role of the mitochondrial protein Pitrm1 in the pathogenesis of the Alzheimer disease

01/07/2013–29/10/2017: Investigator Scientist, Medical Research Council - Mitochondrial Biology Unit, Univ. of Cambridge (UK)

Mentor: Dr. Massimo Zeviani

Translational and preclinical research activity:

- MitCare. Mitochondrial medicine: developing treatments of OXPHOS-defects in recombinant mammalian models. Duration: 2013-2018, Granting Agency: **ERC (FP7-322424)**; 2,5 mln €. PI: Massimo Zeviani, Role: Co-Investigator and coordination of experiments related to the generation of Surf1 knockout pig model.
- Mito-ND: Mitochondrial Neurodegeneration **CoEN grant 3038**; PI: Massimo Zeviani, Role: Co-Investigator and coordination of experiments related to understanding the role of the mitochondrial protein Pitrm1 in the pathogenesis of the Alzheimer disease.

2010 – 2013: Postdoctoral Research Scientist

Unit of Molecular Neurogenetics, Neurological Institute C. Besta, Milan Italy

Mentor: Dr. Valeria Tiranti

Translational research activity:

Study of the genetic diseases associated with Brain Iron accumulation (NBIA syndrome) and mitochondrial dysfunction due to mutations in Pank2 and Pla2g6 genes. The study was focused on basic research (understanding the role of the genes involved in the diseases) and translational/preclinical research (negative effect of Ketogenic Diet) and drug therapy (with Panthetine). **Telethon project** (GGP 11088); PI: Valeria Tiranti; Role in the project: Co-Investigator and coordination of experiments on NCSC and animal models.

2007- 2010: PhD Student

Laboratory of Reproductive Technologies - Avantea srl – Cremona, Italy; University of Milan. Mentors: Prof. Cesare Galli & Prof. Fulvio Gandolfi

Research activity:

- Project "Xenome-Engineering of the porcine genome for xenotransplantation studies in primates: a step towards clinical application" **European Sixth Framework Programme** (LSHB-CT-2006-037377). PI: Cesare Galli; Role in the project: generation of the GM pig models.
- Generation of GM pig for xenotransplantation. Fondazione Banca Popolare di Cremona, grant N° 060043-2008. PI: Dario Brunetti
- Production of transgenic pigs for xenotransplantation. Grant N° A0000583 Sovvenzione Globale Ingenio Regione Lombardia-2007. PI: Dario Brunetti

2004- 2007: Research Fellow

Laboratory of Reproductive Technologies - Avantea srl – Cremona, Italy

- Collaboration to the project “high-tech Network for the generation and use of animal models for gene and cell therapy of human diseases” CARIPLO foundation. PI: Paolo Vezzoni & Cesare Galli; role in the project: Generation of transgenic large animal models.
- European Science Foundation (EUROCORES Programme, EuroSTELLS) PI: Giovanna Lazzari & Cesare Galli; role in the project: collaborator
- Generation of PrPc knock-out cattle for the production of safe biomaterials in BSE prevention. CARIPLO foundation. PI: Cesare Galli; Role in the project: collaborator.

Education and qualifications

2020: MOOC course in Fundamentals of Pharmacology, OHIO State University
2018: Advanced course in Clinical Research: Methodology and regulations of Clinical Trials (GCP, GMP, GDP, QC; QA; Pharmacovigilance; Management and accounting of the drug; Monitoring tasks)
2018: National Scientific Qualification to function as Associate Professor of Applied Biology (BIO/13)
2013-2017: Education and research activity in Mitochondrial Medicine - University of Cambridge
2013: Course in Research and Human tissue legislation, MRC Cambridge, UK
2013: Course in Preclinical Research with laboratory animals; University of Cambridge, UK
2010-2013: Education and research activity in Molecular Neurogenetics and Mitochondrial Medicine;-Neurological Institute C. Besta, Milan, Italy
2011: Residential course in Clinical Research, Neurological Institute C. Besta, Milan, Italy
2010: Course in Animal Model for Preclinical Research, IZSLER, Milan, Italy
2007-2010: PhD in Biotechnology, University of Milan, Italy
2007: Course for the management and exploitation of collaborative research results in joint projects between University and Industry. University of Milan, Italy
1998-2004: M. Sc, University of Bologna (score 110/110), Italy

AWARDS

2019: Seal of Excellence, European Commission – Horizon 2020
2015: MRC Special Award Scheme, Medical research Council, Cambridge (UK)
2012: Young Scientist Award: NBIA association & The Movement Disorder Society

Funding and fellowship

2020 FRRB early career award- COD 1740526: “Precision Medicine Applied to Leigh Syndrome at different stages: development of a Neonatal metabolic supplementation and a fetal gene **THER**apy approach”; Role: PI; Budget Requested: **557.800 €**. Status: Funded
2020 Telethon spring SEED grant n. GSP20003 PAsAtaxia002: “Dysregulated Frataxin processing in the pathogenesis of PITRM1-dependent Spinocerebellar Ataxia”. Budget requested: **47.500 €**. Role PI; Status: Funded
2020 Bando SEED Unimi – COD. 1050: “Mitochondria and Alzheimer’s disease: focus on beta-amyloid processing by PITRM1 and mitochondrial proteases-MitoAD”. Budget requested: **30.000 €**. Role CO-PI; Status: Funded
2020 Commissioned Research by Società ds Prodotti Nestlè SA: “Induction of autophagy to prevent age related diseases”; Budget requested: **35.000 €**; Role: PI; Status: Funded
2020 European Joint Programme on Rare Diseases (EJP RD) H2020, grant n° EJPRD20-010: “A reprogramming-based strategy for drug repositioning in patients with mitochondrial DNA-associated Leigh syndrome (MILS) “ PI: Prof. Alessandro Prigione, Budget requested and approved: **2.360.668,28 €**, role in the project: collaborator.

2019 Ricerca Finalizzata Ministero della Salute: Primary mitochondrial myopathies, evaluation of response to a dietary amino-acid formula in disease models and patients (AMINO4MITO). Budget requested: 444 .069 €; Role CO-PI; Status: not funded

2019 Roadmap Project focused on Leigh's syndrome: Peripheral Blood Mononuclear Cells and branched chain amino-acids: toward identification of biomarker and therapy for Leigh syndrome. Budget requested.: 45.000 €; Role: CO-PI; Status: not funded

2019 Telethon Project n° GGP19087 :“MITOchondrial THERapeutic Response to a dietary amino-acid formula: a preclinical and clinical trial in primary mitochondrial myopathies” (MITO-THER). Role: Project Leader Budget requested: 260.000 €; Status: not granted.

2018: H2020-MSCA-IF-2018 project n°2018 840997 “Dietary supplementation in Sporadic Alzheimer disease: a Mitochondria targeted approach” DISARM. Budget requested 183.000 €. Status: rejected (score 89.20 / 100; scored as HIGH-Quality Project proposal and awarded with the SEAL OF EXCELLENCE)

2018: Fellowship Umberto Veronesi Foundation. Status: awarded 27.000€

2017: H2020-MSCA-IF-2017 project n°794158 “Mitochondrial medicine as a gender-oriented approach to frailty syndrome” MAGNIFY. Budget requested 180.000 €. Status: not funded (score 80.60 / 100)

2016: H2020-MSCA-IF-2016 project n° 744033” MitoAPP: Investigating the role of APP overproduction and the mitochondrial dysfunction in Down Syndrome cell models Budget requested 180.000 €. Status: not funded (score 80.40 / 100)

2008 Fellowship Banca Popolare di Cremona Foundation grant N° 060043-2008 “Generation of GM pig for xenotransplantation”. Budget requested: 24.000 €. Status awarded

2006: Grant for young scientists Sovvenzione Globale Ingenio, Regione Lombardia project N° A0000583 -2007. “Production of transgenic pigs for xenotransplantation” Budget requested: 30.000 €. Status awarded

Supervision of graduate, PhD student and Post Doc

November 2018- present: Thesis Advisor, Department of Medical Biotechnology and Translational Medicine, University of Milan

February - May 2016: Advisor of visiting post doc MRC-MBU Cambridge, UK

January - June 2016: Advisor PhD student MRC-MBU Cambridge, UK

January - June 2011: Thesis Advisor, Unit of Molecular Neurogenetics, Neurological Institute C. Besta, Milan Italy

Teaching activity

2019-2020: Course of Pharmacology (30h), Nursing School, University of Milan

2020-2021: Course of Pharmacology (30h), Nursing School, University of Milan

Academic activity

2019-present: Coordinator of the course in Internal Medicine and Pharmacology Nursing School, University of Milan.

2019-present: member of commissions for admission tests to the Degree courses in Medicine and Surgery; International Medical School.

Reviewer activity for peer reviewed scientific journals:

Ad hoc reviewer: Biochimica Biophysica Acta-Molecular Basis of Disease; Cells; Frontiers in Genetics; Biology; Journal of Clinical Medicine, Brain Sciences, International Journal of Molecular Sciences; Antioxidant; International Journal of Environmental Research and Public Health; Saudi Pharmaceuticals Journal; Pharmaceuticals.

Guest Editor: International Journal of Molecular Sciences; Biology

Invited speaker in national and international conference & seminars

- **Brunetti D.** “In vivo correction of age-related mitochondrial dysfunction, impacts sarcopenia and cognitive decline in the Samp8 mouse model. 16 Dec 2019 – Neurological Institute C. Besta, Milan.
- **Brunetti D.** “Amyloid β and mitochondrial dysfunction: the role of Pitrm1” 17 Dec 2018 – Neurological Institute C. Besta, Milan.
- **Brunetti D.** “Defective PITRM1 mitochondrial peptidase is associated with A β amyloidotic neurodegeneration”, 2 March 2018 Neuroscience Institute CNR Milan.
- **Brunetti D.** “Genetic modification of animal models: new tools and prospects” – Reproductive Biotechnology Centre, 8 May 2016 Dubai, UAE
- **Brunetti D.** “Pantothenate kinase-associated neurodegeneration: altered mitochondria membrane potential and defective respiration in Pank2 knock-out mouse model.” NBIA association & The Movement Disorder Society - 27 October 2012 Ede, NL
- **Brunetti D.** “Production of Prion-knock out cattle” European Science Foundation Exploratory Workshop on Genetic Models of Disease Resistance in Livestock - 1-2 October 2007 Edinburgh, UK

Involvement in the organization of international research groups

- In 2020, Dr. Brunetti was involved by Prof. Alessandro Prigione on the constitution of an European consortium of expert in mitochondrial disease to present a project to the European Joint Programme on Rare Diseases (EJP RD), Call for Proposals 2020 "PRE-CLINICAL RESEARCH TO DEVELOP EFFECTIVE THERAPIES FOR RARE DISEASES.
- In 2007, Dr. Brunetti was involved by Prof. Bruce Whitelaw (Director of the Roslin Institute, UK) in the European Science Foundation Exploratory Workshop for the establishment of a network of European research groups for the development of "Genetic Models of Disease Resistance" in Livestock "- 1-2 October 2007, Edinburgh, UK.

National and International collaborations

Accademy

- Neurogenetics Unit, Neurological Institute C. Besta, Milan, Italy
- Department of General Pediatrics, Heinrich Heine University, Dusseldorf, DE
- Mitochondrial Biology Unit, University of Cambridge, UK
- Advanced Technology Center for Aging Research, INRCA, Ancona, Italy
- Reproductive Biotechnology Center, Dubai, United Arab Emirates

Industry and companies

- Nestlé Research Institute, Innovation Park, Lausanne, Switzerland
- Avantea srl, Cremona Italy
- Professional Dietetics SPA, Milan, Italy
- Sciencecompass, Milan, Italy

Patients Foundation

- Umberto Veronesi Foundation
- Telethon Foundation
- MioMito Onlus
- Mitocon Onlus
- NBIA disorder association

Publications in peer-reviewed scientific journals:

	Scholar	Scopus
H index	12	11
Total cit	628	461

2020

Bottani E, Lamperti C, Prigione A, Tiranti V, Persico N, **Brunetti D**. Therapeutic Approaches to Treat Mitochondrial Diseases: "One-Size-Fits-All" and "Precision Medicine" Strategies. *Pharmaceutics*. 2020 Nov 11;12(11):1083. IF.4.421

Brunetti D, Bottani E, Segala A, Marchet S, Rossi F, Orlando F, Malavolta M, Carruba MO, Lamperti C, Provinciali M, Nisoli E, Valerio A. Targeting Multiple Mitochondrial Processes by a Metabolic Modulator Prevents Sarcopenia and Cognitive Decline in SAMP8 Mice. *Front Pharmacol*. 2020 Jul 31;11:1171. IF. 4.225

Pérez MJ, Ivanyuk D, Panagiotakopoulou V, Di Napoli G, Kalb S, **Brunetti D**, Al-Shaana R, Kaeser SA, Fraschka SA, Jucker M, Zeviani M, Viscomi C, Deleidi M. Loss of function of the mitochondrial peptidase PITRM1 induces proteotoxic stress and Alzheimer's disease-like pathology in human cerebral organoids. *Mol Psychiatry*. 2020 Jul 7. IF. 12.384

Bifari F, Dolci S, Bottani E, Pino A, Di Chio M, Zorzin S, Ragni M, Zamfir RG, **Brunetti D**, Bardelli D, Delfino P, Cattaneo MG, Bordo R, Tedesco L, Rossi F, Bossolasco P, Corbo V, Fumagalli G, Nisoli E, Valerio A, Decimo I. Complete neural stem cell (NSC) neuronal differentiation requires a branched chain amino acids-induced persistent metabolic shift towards energy metabolism. *Pharmacol Res*. 2020 Aug;158:104863. IF.5.893

Malavolta M, Giacconi R, **Brunetti D**, Provinciali M, Maggi F. Exploring the Relevance of Senotherapeutics for the Current SARS-CoV-2 Emergency and Similar Future Global Health Threats. *Cells*. 2020 Apr 8;9(4):909. IF 4.366

Tedesco L, Rossi F, Ragni M, Ruocco C, **Brunetti D**, Carruba MO, Torrente Y, Valerio A, Nisoli E. A Special Amino-Acid Formula Tailored to Boosting Cell Respiration Prevents Mitochondrial Dysfunction and Oxidative Stress Caused by Doxorubicin in Mouse Cardiomyocytes. *Nutrients*. 2020 Jan 21;12(2). pii: E282. IF 4.546

2018

Langer Y, Aran A, Gulsuner S, Abu Libdeh B, Renbaum P, **Brunetti D**, Teixeira PF, Walsh T, Zeligson S, Ruotolo R, Beer R, Dweikat I, Shahrouh M, Weinberg-Shukron A, Zahdeh F, Baruffini E, Glaser E, King MC, Levy-Lahad E, Zeviani M, Segel R. Mitochondrial *PITRM1* peptidase loss-of-function in childhood cerebellar atrophy. *J Med Genet*. 2018 May 15 Sep;55(9):599-606 **IF 2017: 5.751**

Quadalti C*, **Brunetti D***, Lagutina I, Duchi R, Perota A, Lazzari G, Cerutti R, Di Meo I, Johnson M, Bottani E, Crociara P, Corona C, Grifoni S, Tiranti V, Fernandez-Vizarra E, Robinson AJ, Viscomi C, Casalone C, Zeviani M, Galli C. SURF1 knockout cloned pigs: Early onset of a severe lethal phenotype. *Biochim Biophys Acta*. 2018 Jun;1864(6 Pt A):2131-2142 **IF 2017: 5.108 *equal contributors**

2016

Brunetti D, Torsvik J, Dallabona C, Teixeira P, Sztromwasser P, Fernandez-Vizarra E, Cerutti R, Reyes A, Preziuso C, D'Amati G, Baruffini E, Goffrini P, Viscomi C, Ferrero I, Boman H, Telstad W, Johansson S, Glaser E, Knappskog PM, Zeviani M, Bindoff LA. Defective PITRM1 mitochondrial peptidase is associated with A β amyloidotic neurodegeneration. *EMBO Molecular Medicine* 2016 Mar 1;8(3):176-90 **IF: 10.293**

2014

Brunetti D, Dusi S, Giordano C, Lamperti C, Morbin M, Fugnanesi V, Marchet S, Fagiolarini G, Sibon O, Moggio M, d'Amati G, Tiranti V. Pantethine treatment is ineffective in recovering the disease phenotype induced by ketogenic diet in a pantothenate kinase-associated neurodegeneration mouse model. *Brain*. 2014 Jan;137(Pt 1):57-68. **IF: 10.848**

2013

Czernik M, Fidanza A, Sardi M, Galli C, **Brunetti D**, Malatesta D, Della Salda L, Matsukawa K, Ptak GE, Loi P. Differentiation potential and GFP labeling of sheep bone marrow-derived mesenchymal stem cells. *Journal of Cell Biochemistry* 2013 Jan;114(1):134-43 **IF: 3.446**

2012

Brunetti D, Dusi S, Morbin M, Uggetti A, Moda F, D'Amato I, Giordano C, d'Amati G, Cozzi A, Levi S, Hayflick S, Tiranti V. Pantothenate kinase-associated neurodegeneration: altered mitochondria membrane potential and defective respiration in Pank2 knock-out mouse model. *Hum Molecular Genetics*. 2012 Dec 15;21(24):5294-305 **IF: 4.902**

Panteghini C, Zorzi G, Venco P, Dusi S, Reale C, **Brunetti D**, Chiapparini L, Zibordi F, Siegel B, Garavaglia B, Simonati A, Bertini E, Nardocci N, Tiranti V. C19orf12 and FA2H mutations are rare in Italian patients with neurodegeneration with brain iron accumulation. *Seminars Pediatric Neurology* 2012 Jun; 19(2):75-81. **IF: 1.878**

2010

Galli C, Perota A, **Brunetti D**, Lagutina I, Lazzari G, Lucchini F. Genetic engineering including superseding microinjection: new ways to make GM pigs. *Xenotransplantation*. 2010 Nov-Dec;17(6):397-410 **IF 4.717**

Lagutina I, Fulka H, Brevini TA, Antonini S, **Brunetti D**, Colleoni S, Gandolfi F, Lazzari G, Fulka J, Galli C. Development, embryonic genome activity and mitochondrial characteristics of bovine-pig inter-family nuclear transfer embryos. *Reproduction*. 2010 Aug;140(2):273-85 **IF: 3.086**

Lazzari G., Colleoni S., Lagutina I., Crotti G., Turini P., Tessaro I., **Brunetti D.**, Duchi R., Galli C. "Short-term and long-term effects of embryo culture in the surrogate sheep oviduct versus in vitro culture for different domestic species". *Theriogenology*. 1 Apr. 2010, 73(6):748-57 **IF: 2.136**

2008

Brunetti D., Perota A., Lagutina I., Colleoni S., Duchi R., Calabrese F., Seveso M., Cozzi E., Lazzari G., Lucchini F. and Galli C. "Transgene expression of green fluorescent protein and germ line transmission in cloned pigs derived from in vitro transfected adult fibroblasts". *Cloning and Stem Cells*, volume 10 Number 4, Dec, 2008. Pp 409-419 **IF 2.622**

2007

Lagutina I., Lazzari G., Duchi R., Turini P., Tessaro I., **Brunetti D.**, Colleoni S., Crotti G., Galli C. "Comparative aspects of somatic cell nuclear transfer with conventional and zona free method in cattle, horse, pig and sheep". *Theriogenology* volume 67 (2007) pp 90-98 **IF: 2.136**

2006

Lazzari G., Colleoni S., Giannelli S., **Brunetti D.**, Colombo E., Lagutina I., Galli C. & Broccoli V. "Direct derivation of Neural Rosettes from Cloned Bovine Blastocysts: A Model of Early Neurulation Events and Neural Crest Specification In Vitro". *Stem Cells*. 2006 Nov; Volume 24 n 11 pp 2514-21 **IF: 5.587**

Peer-reviewed conference proceedings

2015

Zeviani M., Reyes A., Viscomi C., Civiletto G., Cerutti R., Fernandez-Vizarra, **Brunetti D.**, Bottani E. "Identification and characterization of new mitochondrial disease genes". 8th Annual Neuromuscular Translational Research Conference 19th and 20th March 2015 - *Neuromuscular Disorders* 25, S1-S3 **IF 2.368**

2013

M Guaraldo, A Cozzi, P Santambrogio, **D Brunetti**, V Tiranti, S Levi. "Pank2^{-/-} mice tissues show sign of oxidative damage". *American Journal of Hematology* 88 (5), E166-E166 **IF 3.477**

2010

A Perota, **D Brunetti**, I Lagutina, G Lazzari, F Lucchini, C Galli. "Establishment of transgenic PK15 cell clones for human thrombomodulin gene". *Transgenic Research* 19 (2), 347-347 **IF 2.197**

D Brunetti, A Perota, I Lagutina, M Chatelais, B Charreau, R Duchi, Giovanna Lazzari, Franco Lucchini, Cesare Galli. "Production and characterization of Gal^{-/-} minipigs over-expressing hCD55. *Transgenic Research* 19 (2), 325-325 **IF 2.197**

Mn Chieppa, A Perota, **D Brunetti**, C Porcario, M Tortarolo, G Lazzari, C Bendotti, C Corona, Franco Lucchini, C Casalone, C Galli. "Creation of a ubiquitous vector for expression of hSOD1G93A in pig". *Transgenic Research* 19 (2), 326-326 **IF 2.197**

2009

A Perota, **D Brunetti**, B Charreau, M Chatelais, I Lagutina, G Lazzari, I Anegon, DH Sachs, E Cozzi, F Lucchini, C Galli "Generation of cloned CD55-CD39 transgenic α 1,3-galactosyltransferase depleted GAL^{-/-} piglets. *Reproduction, Fertility and Development* 22 (1), 372-373 **IF: 2.105**

E Cozzi, P Simioni, MB Nottle, M Vadori, GM De Benedictis, N Baldan, M Boldrin, SC Robson, F Besenon, L Cavicchioli, F Calabrese, **D Brunetti**, S Gavasso, B Ekser, C Radu, M Seveso, A Dedja, F Fante, E Salvaris, V Tisato, P Carraro, C Galli, JP Soullillou, G Blanco, AJ d'Apice, E Ancona, PJ Cowan. "Preliminary study in a life supporting pig to primate xenotransplantation model using Gal KO pigs transgenic for human CD39, CD55, CD59 and fucosyltransferase". *Xenotransplantation* 16 (6), 544-544 [5 citations] **IF: 4.717**

Claudia M Radu, Cristiana Bulato, Sabrina Gavasso, **Dario Brunetti**, Andrea Perota, Luca Spiezia, Valeria Ferri, Cesare Galli, Paolo Simioni, Emanuele Cozzi. "Activation of human protein C by alpha 1, 3-galactosyltransferase gene-knockout porcine aortic endothelial cells expressing human thrombomodulin". *Xenotransplantation* 16 (5), 435-436 **IF: 4.717**

Dario Brunetti, Andrea Perota, Irina Lagutina, Mathias Chatelais, Beatrice Charreau, Roberto Duchi, Emanuele Cozzi, Giovanna Lazzari, Franco Lucchini, Ignacio Anegon, Dh Sachs, Cesare Galli. "Double transgenic Gal^{-/-} piglets over-expressing hCD39". *Xenotransplantation* 16 (5), 436-437 [1 citation] **IF: 4.717**

2008

D Brunetti, A Perota, I Lagutina, S Colleoni, F Besenzon, E Cozzi, G Lazzari, F Lucchini, DH Sachs, C Galli. "Isolation and characterization of porcine Gal KO fibroblasts expressing hCD55-hCD39 and hEPCR-hTPA". *Transgenic Research* 17 (5), 1002-1003 **IF 2.197**

2007

D Brunetti, G Rossi, I Lagutina, R Duchi, S Colleoni, M Catania, C Viscomi, D Piga, M Zeviani, G Lazzari, F Tagliavini, C Galli. "Hemizygous prion protein gene (PRNP) knockout in cattle fibroblasts". *Reproduction, Fertility and Development* 20 (1), 230-230 **IF: 2.105**

D Brunetti, A Perota, I Lagutina, G Lazzari, F Lucchini, C Galli. "Expression of Green fluorescent protein in pig blastocysts obtained by somatic cell nuclear transfer". *Xenotransplantation* 14 (5), 466-466 **IF: 4.717**

M Byrne, A Smolic, A Preveolos, C Galli, G Lazzari, **D Brunetti**, G Condorelli, D Kaye. "Cardiac delivery of eGFP transfected ovine fibroblasts using percutaneous recirculation in a large animal model" *Journal of Molecular and Cellular Cardiology* 42(6): PS79 **IF: 5.296**

Book chapters:

- Farmaci per il trattamento dell'obesità; B Emanuela, D Brunetti, E Nisoli, Farmacologia IV edizione Minerva Medica
- La patogenesi della syndrome neurodegenerative da accumulo di ferro associata a difetto di Pantotenato Chinasi (PKAN): aspetti metabolici, biochimici, e mitocondriali; D Brunetti, V Tiranti, Franco Angeli Editore

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Milan 23/12/2020

Dario Brunetti