Prof.ssa Maria Cristina D'ADAMO *Pharm.D., Ph.D.*

Professore Ordinario di Fisiologia, S.S.D. BIO/09

Dipartimento di Medicina e Chirurgia
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Google Scholar:
https://scholar.google.com/citations?user=rpmZnHgAAAAJ&hl=en

POSIZIONE ATTUALE

PROFESSORE ORDINARIO DI FISIOLOGIA, S.S.D. BIO/09

DIPARTIMENTO DI MEDICINA E CHIRURGIA

UNIVERSITÀ LUM GIUSEPPE DEGENNARO

PRESIDENTE DEL CORSO DI LAUREA MAGISTRALE A CICLO UNICO IN MEDICINA E CHIRURGIA-LM-41;

COORDINATORE DELL`ATTIVITA` DIDATTICA DEL SECONDO ANNO DI CORSO DI LAUREA MAGISTRALE A CICLO UNICO IN MEDICINA E CHIRURGIA-LM-41;

COORDINATORE DELL`ATTIVITA` DIDATTICA DI TIROCINIO I, CORSO DI LAUREA MAGISTRALE A CICLO UNICO IN MEDICINA E CHIRURGIA-LM-41.

ESPERIENZA LAVORATIVA

01.09.2021 – ad oggi

Scientific collaborator of Tommy Fuss Center for Neuropsychiatric Disease Research
Department of Psychiatry, Boston Children's Hospital
Harvard Medical School
300 Longwood Avenue, Boston, MA 02115-5724, USA.
(https://www.childrenshospital.org/research/centers/tommy-fuss-center/meet-our-team)

01.01.2022 – ad oggi

Visiting Scientist of UAE University,
College of Medicine, Campus Al-AIN, UAE

01.06.2022 – ad oggi

Visiting Scientist of MBRU University,
College of Medicine, Dubai, UAE

1.09.2016 - 31.08.2021

Ricercatore a tempo determinato
Department of Physiology & Biochemistry
Faculty of Medicine & Surgery, University of Malta, Msida, MALTA.

AA 2019/2020

Professore a Contratto di Fisiologia
Corso di Laurea in Ostetricia e Ginecologia, Facolta' di Medicina e Chirurgia
Universita' di Perugia, Italia.

01.12.2014 - 31.08.2016

Telethon Scientist e Group Leader,
Sezione di Fisiologia e Biochimica, Dipartimento di Medicina Sperimentale, Facolta' di Medicina e Chirurgia, Universita' di Perugia, Italia.

24.11.2009 - 30.11.2014

Post-Doctoral Fellow,
Dipartimento di Medicina Sperimentale, Facolta' di Medicina e Chirurgia, Universita' di Perugia, Italia.

Luglio 2011

Visiting Scientist, (Prof. Mario Valentino, adviser)
Department of Physiology & Biochemistry
Faculty of Medicine & Surgery, University of Malta, Msida, MALTA.

01.07.1997-30.09.1997

Visiting Fellow, (Prof. John P. Adelman, supervisor)
Vollum Institute for Advanced Biomedical Research
Oregon Health & Science University Portland, OR, U.S.A.

1991-2003

Research Fellow (Prof. Maria Benedetta Donati, supervisor)
Istituto di ricerche farmacologiche e Biomediche "Mario Negri", CMNS, S.

Maria Imbaro (CH) ITALY.

ISTRUZIONE E FORMAZIONE

2022 **Abilitazione Scientifica Nazionale come Professore di I fascia S.S.D. Bio/09 (Fisiologia)**
(https://asn21.cineca.it/pubblico/miur/esito-abilitato/05%252FD1/1/2).

2017 **Abilitazione Scientifica Nazionale come Professore di II fascia S.S.D. Bio/09 (Fisiologia)**
(https://asn16.cineca.it/pubblico/miur/esito-abilitato/05%252FD1/2/2).

2011 **Titolo di "Cultore della Materia" in Fisiologia**. Facoltà di Medicina e Chirurgia, Università di Perugia, Italia.

2011 **Membro della commissione d'esame di Fisiologia** per la Facolta' di Medicina e Chirurgia, Università di Perugia, Italia.

2010 **Dottorato di Ricerca in Neurofisiologia ed Elettrofisiologia**. Titolo della tesi: *"Role of delayed-rectifying and inwardly-rectifying K^+ channels in channelopathies"*. Relatore Prof. Vito Enrico Pettorossi. Facolta' di Medicina e Chirurgia, Università di Perugia, Italia.

2006 **Laurea Magistrale in Farmacia.** Titolo della tesi: *"Pathophysiological role of Kv1.1 potassium channels in the development of Episodic Ataxia type 1"*. Relatore Prof. Stefania Fulle. Università "Gabriele D'Annunzio" di Chieti, Facoltà di Farmacia, ITALIA.

APPARTENENZA A SOCIETÀ SCIENTIFICHE

Membro della Società Italiana di Fisiologia

Member of the Mediterranean Neuroscience Society

Member of the Malta Neuroscience Network, Faculty of Medicine and Surgery, University of Malta

ATTIVITA` DIDATTICA

Università LUM Giuseppe Degennaro

2023-2024 ***Corso di laurea magistrale a ciclo unico in Medicina e Chirurgia***
2° Anno: CI Basi Morfofunzionali del Sistema Nervoso

(approvata dal CCdS)

Insegnamento: **Neurofisiologia** (Titolare dell'insegnamento e *Presidente della commissione d'esame del CI*)
2° Anno: CI Fisiologia Umana
Insegnamento: **Fisiologia Umana** (Titolare dell'insegnamento e *Presidente della commissione d'esame del CI*)

Corso di laurea in Infermieristica
1° Anno: CI Basi Morfofunzionali del Corpo Umano
Insegnamento: **Fisiologia** (Titolare dell'insegnamento e *Presidente della commissione d'esame del CI*)

2022-2023

Corso di laurea magistrale a ciclo unico in Medicina e Chirurgia
1° Anno: Metodologia della Ricerca *(a.a. 2021/2022)* (Titolare dell'insegnamento
2° Anno: CI Basi Morfofunzionali del Sistema Nervoso
Insegnamento: **Neurofisiologia** (Titolare dell'insegnamento e *Presidente della commissione d'esame del CI*)
2° Anno: CI Fisiologia Umana
Insegnamento: **Fisiologia Umana** (Titolare dell'insegnamento e *Presidente della commissione d'esame del CI*)

Corso di laurea in Infermieristica
1° Anno: CI Basi Morfofunzionali del Corpo Umano
Insegnamento: **Fisiologia** (Titolare dell'insegnamento e *Presidente della commissione d'esame del CI*)

Università di Perugia

2019-2020

Corso di Laurea in Ostetricia e Ginecologia
Professore a contratto per l'insegnamento di Fisiologia (Titolare dell'insegnamento).

Università di Malta:

2018-2021

Faculty of Medicine & Surgery

1. Doctor of Medicine and Surgery
    - Study-Unit CODE MDS1013, Organisation of the Body (https://www.um.edu.mt/courses/studyunit/MDS1013)
2. Bachelor of Science (Honours) in Medical Biochemistry
    - Study-Unit CODE PHB1504, Model Organisms in Biological Research (https://www.um.edu.mt/courses/studyunit/PHB1504)
    - Study-Unit CODE PHB3503, From Molecular to Translational Neuroscience

Faculty of Health Sciences

1. Bachelor of Science (Honours) in Physiotherapy
2. Bachelor of Science (Honours) in Physics, Medical Physics and Radiation Protection
3. Bachelor of Science (Honours) in Communication Therapy

Study-Unit CODE PHB2015, Neurophysiology

Università di Perugia

2010 - 2016 **Lezioni pratiche** (Misurazione della Pressione Arteriosa, ECG e Spirometria) Corso di Laurea Magistrale in Medicina e Chirurgia, Universita' di Perugia, Italia.

2010 - 2016 **Lezioni teoriche di Fisiologia Generale e Umana**
Corso di Laurea in Biotecnologie (B.Sc.) e Master in Biotecnologie, Facolta` di Medicina e Chirurgia Universita' di Perugia, Italia.

2010 – 2016 **Supporto alla Didattica ed assistenza agli studenti**
Corso di Laurea in Biotecnologie (B.Sc.) e Master in Biotecnologie, Facolta` di Medicina e Chirurgia Universita' di Perugia, Italia.

2010 - 2013 **Lezioni teoriche di Fisiologia Generale e Umana**
Corso di Laurea Magistrale in Medicina e Chirurgia, Universita' di Perugia, Italia.

ATTIVITA` EDITORIALE

MEMBRO DELL`EDITORIAL BOARD

Frontiers in Cellular Neuroscience Archive (**Associate Editor**);

Frontiers in Pharmacology (**Associate Editor**)*: Pharmacology of Ion Channels and Channelopathies*;

Frontiers in Cellular Neurophysiology (**Associate Editor and Review Editor**);

International Journal of Neurology Research.

Frontiers in Physiology (**Guest Associate Editor**). *Research Topic:* "**Ion Channels: from Physiology to Channelopathies**";
http://www.frontiersin.org/people/MariaD_Adamo/111624/researchtopic

International Journal of Molecular Sciences **(Special Issue Editor)**: "**Implication of Ion Channels in Neurodevelopmental Disorders**";
https://www.mdpi.com/journal/ijms/special_issues/IonChannel_NeuroDisorder

REFEREE DI GIORNALI SCIENTIFICI

- Nature Genetics
- Nature: Scientific Reports
- Journal of Pharmacological Sciences, ELSEVIER
- Current Drug Metabolism
- Epilepsy Research
- British Journal of Pharmacology
- Pflügers Archiv - European Journal of Physiology

PREMI E RICONOSCIMENTI

1998	"Alfredo Leonardi Prize for Rare Disease".
1998	Fellowship from the "Gustavus and Louise Pfeiffer Research Foundation" (Denville, N.J., U.S.A.) and "Alfredo Leonardi Fund".
1998	*Principal Success of Telethon's Research Award* (April 1998, *Cell Biology*) for the results obtained and published in the paper D'Adamo *et al.,* 1998.
1999	Front cover figure of *FEBS lett.* Vol. 449
2001	Front cover figure of *J. Physiol.* (*London*) Vol. 532.2.
2008	Front cover figure of *Neuroscience* Vol. 157.

External Reviewer Corsi di Master e Dottorato

Master of Science in Biochemistry, Department of Physiology and Biochemistry, University of Malta
External examiner AA 2021-22
Dissertation tile: "Defining a differentiation cocktail for generation of Dopaminergic Neurons using small molecules and spent media from SH-SY5Y cells and LUHMES cells".
Candidate: Ms. Deborah Warrington.

DOTTORATO DI RICERCA IN MEDICINA MOLECOLARE
Università degli Studi di Roma "La Sapienza", Facoltà di Medicina e Chirurgia
XXXIII ciclo del corso di Dottorato Anno Accademico 2019/2020
Ph.D. thesis "HUNTINGTON DISEASE: NEW INSIGTHS INTO PATHOGENESIS AND TREATMENT." Applicant Dr. Alba Di Pardo

EXTERNAL REVIEWER DI PROGETTI DI RICERCA

Referee for **ATAXIA UK,** the medical research charity based in London (www.ataxia.org.uk).

Referee for the **German Federal Ministry for Education and Research** (BMBF). Research funding: "Translational consortia for rare disease research".
(http://www.dlr.de/pt/Portaldata/45/Resources/Dokumente/call_text_short_2018.pdf)

Member of **REPRISE** (Register of scientific experts established by the **Ministry of Education and Research,** ITALY).

Evaluator of Research Projects of National Relevance (PRIN), **Ministry of Education and Research**, ITALY.

Evaluator of intramural grant proposals for the **University of Eastern Piedmont "Amedeo Avogadro**", ITALY

FINANZIAMENTI OTTENUTI COME CO-PI O PRINCIPAL COLLABORATOR

Grant awarded by COMPAGNIA di San Paolo (Turin), *Neuroscience Program "Role of Potassium Channels of the Brain in Health and Disease" (amount awarded 100.000 €).*

Grant awarded by COMPAGNIA di San Paolo (Turin), *"Study of the pathogenic mechanisms of EA1" (amount awarded 61.000 €).*

Grant awarded by TELETHON (n. GGP11188). *"Role of astrocytic inwardly−rectifying K+ channels in the pathogenesis of Autism Spectrum Disorders with susceptibility to seizures (Autism−Epilepsy Phenotype)" (amount awarded 145.000 €).*

Grant awarded by TELETHON. *"Functional Determinants of Episodic Ataxia/Myokymia Syndrome" (amount awarded 120.000 €).*

Grant award by Fondazione Cassa di Risparmio di Perugia, 2016: *"Impact of the R18Q mutation in the Kir4.1 channel in pathogenesis of autism: in vitro and in vivo studies" (code n. 2016.0134.021 RICERCA SCIENTIFICA E TECNOLOGICA, 44.000 €).*

Fondazione Ricerca Fibrosi Cistica, onlus – 2018: *STUDIO DEGLI EFFETTI DI TIMOSINA ALFA1 NELL'INTESTINO: MODULAZIONE DELL'INFIAMMAZIONE E RECUPERO DEL FUNZIONAMENTO DI CFTR MUTATA. PROVE SPERIMENTALI IN CELLULE INTESTINALI E PANCREATICHE E IN MODELLI MURINI CON FIBROSI CISTICA. (Code n. FFC#1 2018, 40.000 €).*

Research Innovation and Development Trust (RiDT) *- University of Malta, Grant 2017 "Role of cerebellar spreading depression in triggering episodes of ataxia: focus on EA1". Malta Council of Science and Technology – 2019: Boosting K+ channels in Neurological Diseases – BooKind, (code n. E20LG42; 200.000 €).*

Research Innovation and Development Trust (RiDT) *- University of Malta, 2019 "Dexamethasone in Glioblastoma Therapy".*

College of Medicine and Health Sciences - UAEU 2020: *"Repositioning a new opener of voltage-gated K+ channels Kv1.1 and Kv1.2 as a potential potent therapy for a movement disorder" (code n. 31M468; 50.000 €).*

Advanced Technology Research Council - ASPIRE 2021: *"Interplay between gut Microbiota and Abnormal potassium channel function in the*

GEnesis of autism and intellectual disability – IMAGE". (Code n. 21M149-AARE20-260; 250.000 €).

Grant awarded by University of Malta, Research Excellence 2020: *"Role of the interplay between abnormal K^+ channel gene, gut microbiota and brain function in the genesis of autism", amount awarded 60.000 €.*

Grant awarded by the Malta Council of Science and Technology, *2020: "Boosting K^+ channels in neurological diseases", amount awarded 230.000 €.*

PARTECIPAZIONE A SEMINARI E CONGRESSI

14-16 Settembre 2022	"On the role of inwardly-rectifying potassium channel Kir4.1 in brain functions" 72° Congresso Nazionale SIF Bari •. Presentazione orale.
24 Febbraio, 2022	"The emerging role of inwardly-rectifying K^+ channels in the pathophysiology of autism." Invited by Prof.ssa Grazia Paola Nicchia, Department of Molecular Medicine and Medical Biotechnology, Universita` "A.Moro", Bari. Seminario
26 Febbraio, 2018	"Implications of Kir channels in autism spectrum disorders." Invited by Prof. Chiarotti Lorenzo, Department of Molecular Medicine and Medical Biotechnology, University of Naples "Federico II". Seminar technology, University of Naples "Federico II". Seminar
12-15 Giugno, 2017	"Ion channels and disease" VI° MNS "Mediterranean Neuroscience Society", Malta. Chairperson
3-5 Dicembre, 2015	"Implication of inwardly-rectifying K^+ channels in the pathogenesis of autism" IX° Malta Medical School Conference, Hilton Malta Hotel, St. Julians, Malta. Oral Presentation
12-15 Giugno, 2015	"K^+ Channels: structure-function features, physiological roles and channelopathies". MNS 2015 - 5th Conference of the Mediterranean Neuroscience Society, Cagliari, Italy Chair Prof. Giacomo Rizzolatti (invited speaker).
28 Settembre-1 Ottobre, 2014	64°Conference of the Italian Society of Physiology (SIF), Capri (Naples). Oral Presentation.

21 Settembre, 2006	"Effect of ERG Channels on Medial Vestibular Neurons activity" Coordinator Prof. G. Orlando, "G. D'Annunzio " University of Chieti. Seminar
13 Aprile, 2006	"Pathophysiological role of Kv1.1 Potassium Channels in the onset of Episodic Ataxia type 1" Coordinator Prof. S.Fulle, "G. D'Annunzio " University of Chieti. Seminar
15 Aprile, 1998	"Molecular determinants of Episodic Ataxia Type 1: a Shaker-like syndrome associated with potassium channels dysfunction", Mario Negri Institute, Santa Maria Imbaro CMNS (Chieti). Seminar
30 Settembre-3 Ottobre, 1997	Conference of the Italian Society of Biophysics and Molecular Biology (ABCD) Montesilvano Lido (EP). Oral Presentation.
26-30 Giugno, 1994	XIII National Meeting of the Italian Society for the Study of Haemostasis and Thrombosis (SISET) Lanciano (CH). Oral Presentation

Principali Collaboratori

Prof. Stephen J. Tucker, Professor of Biophysics, University of Oxford, OX1 3PT, UK. stephen.tucker@physics.ox.ac.uk

Prof. Joseph Gonzalez-Heydrich, Professor of Psychiatry, HARVARD MEDICAL SCHOOL, USA. Joseph.Gonzalez-Heydrich@childrens.harvard.edu

Prof Thomas Klopstock, Professor of Neurology, Ludwig-Maximilians-University of Munich, Germany. thomas.klopstock@med.uni-muenchen.de

Dr. Elena Ambrosini, Department of Cell Biology and Neuroscience, ISS, Italy. elena.ambrosini@iss.it

Prof. Mohammed Jashim Uddin, Associate Professor – Human Genetics College of Medicine, Mohammed bin Rashid Al Maktum University MBRU, UAEU. Mohammed.Uddin@mbru.ac.ae

PUBBLICAZIONI SU RIVISTE INTERNAZIONALI

(I.F. collected at the date of publication)

1. Servettini I, Talani G, Megaro A, Setzu MD, Biggio F, Briffa M, Guglielmi L, Savalli N, Binda F, Delicata F, Bru-Mercier G, Vassallo N, Maglione V, Cauchi RJ, Di Pardo A, Collu M, Imbrici P, Catacuzzeno L, **D'Adamo MC*,** Olcese R, Pessia M*. An activator of voltage-gated K^+ channels Kv1.1 as a therapeutic candidate for episodic ataxia type 1. **PNAS-Proc Natl Acad Sci** U S A. 2023 Aug;120(31):e2207978120. doi: 10.1073/pnas.2207978120. Epub 2023 Jul 24. PMID: 37487086. **(I.F. 12.8)**. Co-corresponding author

2. Hasan S, Delicata F, Guasti L, Duranti C, Mousalem Haidar F, Arcangeli A, Imbrici P, Pessia M, Valentino M, **D'Adamo MC.** "Locus Coeruleus Neurons' Firing Pattern Is Regulated by ERG Voltage-Gated K+ Channels." **International Journal of Molecular Sciences** 23 (23), 15334. doi:10.3390/ijms232315334 **(I.F. 6.2)**.

3. Brignone MS, Lanciotti A, Michelucci A, Mallozzi C, Camerini S, Catacuzzeno L, Sforna L, Caramia M, **D'Adamo MC,** Ceccarini M, Molinari P, Macioce P, Macchia G, Petrucci TC, Pessia M, Visentin S, Ambrosini E. The CaMKII/MLC1 Axis Confers Ca^{2+}-Dependence to Volume-Regulated Anion Channels (VRAC) in Astrocytes. **Cells**. 2022 Aug 26;11(17):2656. doi: 10.3390/cells11172656. **(I.F. 7.67)**.

4. Dinoi G, Morin M, Conte E, Mor Shaked H, Coppola MA, **D'Adamo MC,** Elpeleg O, Liantonio A, Hartmann I, De Luca A, Blunck R, Russo A, Imbrici P. Clinical and (2022) Functional Study of a De Novo Variant in the PVP Motif of Kv1.1 Channel Associated with Epilepsy, Developmental Delay and Ataxia. **Int J Mol Sci**. Jul 22;23(15):8079. doi: 10.3390/ijms23158079. **(I.F. 6.2)**.

5. Zanni G., Conte E., Blunck R., Liantonio A., Stregapede F., Tosi M., **D'Adamo M.C.,** Brankovic V., Imbrici P. (2021) A novel *KCNA2* variant in a patient with nonprogressive congenital ataxia and epilepsy: functional characterization and sensitivity to 4-aminopyridine. **Int. J. Mol. Sci.,** Sep 14;22(18):9913. doi: 10.3390/ijms22189913 **(I.F. 5.9)**.

6. Pavinato L., Nematian-Ardestani E., Zonta A., De Rubeis S., Buxbaum J., Mancini C., Bruselles A., Tartaglia M., Pessia M., Tucker S.J., **D'Adamo M.C.*,** Brusco A.* (2021) *KCNK18* Biallelic Variants Associated with Intellectual Disability and Neurodevelopmental Disorders Alter TRESK Channel Activity. **Int. J. Mol. Sci.,** 22 (11) doi.org/10.3390/ijms22116064 (*co-correspondence) **(I.F. 5.9)**.

7. Poli G., Hasan S., Belia S., Cenciarini M., Tucker S., Imbrici P., Shehab S., Pessia M., Brancorsini S., **D'Adamo M.C.** (2021) *Kcnj16* (Kir5.1) Gene Ablation Causes Subfertility and Increases the Prevalence of Morphologically Abnormal Spermatozoa **Int. J. Mol. Sci.,** 22 (11) doi.org/10.3390/ijms22115972 **(I.F. 5.9).**

8. Imbrici P., Accogli A., Blunck R., Altamura C., Iacomino M., **D'Adamo M.C.**, Allegri A., Pedemonte M., Brolatti N., Vari S., Cataldi M., Capra V., Gustincich S., Zara F., Desaphy J.F., Fiorillo C. (2021). Musculoskeletal features without ataxia associated to a novel *de novo* mutation in *KCNA1* impairing the voltage sensitivity of Kv1.1 channel. **Biomedicines** 9(1), 75; https://doi.org/10.3390/biomedicines9010075 (**I.F. 6.08**).

9. Mubashir S., Farrugia M., Coretti L., Pessia M. and **D'Adamo M.C**. (2020). AUTISM SPECTRUM DISORDER. **Malta Medical Journal,** 32 (3) December 2020.

10. Hasan S., Megaro A., Cenciarini M., Imbrici P., Coretti L., Botti F.M., Steinbusch H., Hunter T., Hunter G., Pessia M. and **D'Adamo M.C.** (2020). Electromechanical coupling of the Kv1.1 voltage-gated K^+ channel is fine-tuned by the simplest amino acid residue in the S4-S5 linker. **Springer NATURE** - ***Pflügers Archiv - European Journal of Physiology*** DOI:10.1007/s00424-020-02414-0. **(I.F. 3.29)**.

11. **D'Adamo M.C.,** Liantonio A., Rolland J.F., Pessia M., Imbrici P. (2020). Kv1.1 Channelopathies: Pathophysiological Mechanisms and Therapeutic Approaches. **Int. J. Mol. Sci.** Apr 22;21(8). pii: E2935. doi: 10.3390/ijms21082935. **(I.F. 4.55).**

12. **D'Adamo M.C.,** Liantonio A, Rolland JF, Pessia M, Imbrici P. (2020). Diseases Associated with Kv1.1 Channel Dysfunction. **Encyclopedia.** https://encyclopedia.pub/item/revision/5260ef4b4dc9b6b3b707b416dc431898.

13. Imbrici P., Nematian-Ardestani E., Hasan S., Pessia M., Tucker S.J. and **D'Adamo M.C.** (2020). Altered functional properties of a missense variant in the TRESK K^+ channel (*KCNK18*) associated with migraine and intellectual disability. **Springer NATURE - Pflügers Archiv - European Journal of Physiology,** May 12. doi: 10.1007/s00424-020-02382-5. **(I.F. 3.29)**.

14. Stendel C., **D`Adamo M.C.**, Wiessner M., Dusl M., Cenciarini M., Belia S., Nematian-Ardestani E., Bauer P., Senderek J., Klopstock T. and Pessia M. (2020). Association of a novel splice site mutation in P/Q-type calcium channels with childhood epilepsy and late-onset slowly progressive non-episodic cerebellar ataxia. **Int. J. Mol. Sci.** 21, 3810; doi:10.3390/ijms21113810. **(I.F. 4.55)**

15. **D'Adamo M.C.,** Liantonio A., Conte E., Pessia M., Imbrici P. (2020). Ion channels involvement in neurodevelopmental disorders. **ELSEVIER – Neuroscience** https://doi.org/10.1016/j.neuroscience.2020.05.032. **(I.F. 3.24).**

16. Cenciarini M., Valentino M., Belia S., Sforna L., Rosa P., Ronchetti S., **D'Adamo M.C.**, Pessia M. (2019) Dexamethasone in Glioblastoma Multiforme Therapy: Mechanisms and Controversies. ***Front Mol Neurosci.*** Mar 29;12:65. doi: 10.3389/fnmol.2019.00065 **(I.F. 3.9)**.

17. Karalok Z.S., Megaro A., Cenciarini M., Guven A., Hasan Majed S., Taskin D.B., Imbrici P., Ceylaner S., Pessia M. and **D'Adamo M.C.** (2018) Identification of a new "*de novo*" mutation underlying regressive Episodic Ataxia type I. Case Report, ***Front. Neurol. – Neurodegeneration.*** 9: 587. DOI: 10.3389/fneur.2018.00587 **(I.F. 3.57)**.

18. Hasan S., Hunter T., Hunter G., Pessia M. and **D'Adamo M.C.** (2018) Commentary: A channelopathy mutation in the voltage-sensor discloses contributions of a conserved phenylalanine to gating properties of Kv1.1 channels and ataxia. ***Front. Cell. Neurosci.*** 12:174. doi: 10.3389/fncel.2018.00174 **(I.F. 4.56)**.

19. Majed Hasan S., Balobaid A., Grottesi A., Dabbagh O., Cenciarini M., Rawashdeh R., Al-Sagheir A., Bove C., Macchioni L., Pessia M., Al-Owain M., **D'Adamo M.C.** (2017) Lethal digenic mutations in the K^+ channels Kir4.1 (*KCNJ10*) and SLACK *(KCNT1)* associated with severe-disabling seizures and neurodevelopmental delay. **Journal of Neurophysiology** Published 26 July, DOI: 10.1152/jn.00284.2017 **(I.F. 2.89)**.

20. Hasan S., Bove C., Silvestri G., Mantuano E., Modoni A., Veneziano L., Macchioni L., Hunter H., Hunter G., Pessia M., **D'Adamo M.C.** (2017) A channelopathy mutation in the voltage-sensor discloses contributions of a conserved phenylalanine to gating properties of Kv1.1 channels and ataxia. ***Nature Publishing Group:*** **Scientific Reports.** 7: 4583. doi: 10.1038/s41598-017-03041-z **(I.F. 5.23)**.

21. Romani L., Oikonomou V., Moretti S., Iannitti R.G., **D'Adamo M.C.**, Villella V., Pariano M., Sforna L., Borghi M., Bellet M., Fallarino F., Pallotta M.T., Servillo G., Ferrari E., Puccetti P., Kroemer G., Pessia M., Maiuri L., Goldstein A., Garaci E. (2017) Thymosin α1 represents a potential potent single molecule-based therapy for cystic fibrosis. **Nature Medicine.** May; 23(5): 590–600. doi:10.1038/nm.4305 **(I.F. 29.89)**.

22. Imbrici P., Altamura C., Gualandi F., Mangiatordi G.F., Neri M., De Maria G., Ferlini A., Padovani A., **D'Adamo M.C.**, Nicolotti O., Pessia M., Conte D., Filotosto M., Desaphy J. (2017) Identification of a novel *KCNA1* mutation in a patient with paroxysmal ataxia, myokymia, painful contractures and diabetes type 2. **Mol. Cell. Neurosci.,** 83:6-12. doi: 10.1016/j.mcn.2017.06.006 **(I.F. 3.08).**

23. Kaya N., Alsagob M., **D'Adamo M.C.**, Al-Bakheet A., Hasan S., Muccioli M., Almutairi F.B., Almass R., Aldosary M., Monies D., Mustafa O.M., Alyounes B., Kenana R., Al-Zahrani J., Naim E., Binhumaid F.S., Qari A., Almutairi F., Meyer B., Plageman T.F., Pessia M., Colak D., Al-Owain M. (2016). *KCNA4* deficiency leads to a syndrome of abnormal striatum, congenital cataract and intellectual disability. **J. Med. Genet.** *August 31, 2016 doi:10.1136/jmedgenet-2015-103637.* **(I.F. 5.65)**.

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