ALL. B

Decreto Rettore Università di Roma "La Sapienza" n. 3909/2019 del 10/12/2019

Carla Giordano
Curriculum Vitae

Place Rome
Date 3rd January 2020

Part I- GENERAL INFORMATION
Researcher unique identifier(s): ORCID iD 0000-0002-3716-4303
Spoken Languages: Italian, English

Part II- EDUCATION
2007, PhD in Human Pathology, Sapienza, University of Rome
2003, Board in Anatomic Pathology Sapienza, University of Rome
1997, MD Degree Sapienza, University of Rome

Part III- PRE and POST-DOCTORAL TRAINING
1998-2001 Telethon fellowship, College of Physicians & Surgeons, Department of Neurology, Columbia University, New York, USA (Dr MM Davidson and Dr EA Schon)
2006-2008, Research Felloship funded by Telethon (PI Valerio Carelli), Department of Experimental Medicine, Sapienza University of Rome
2008-2010 Senior Researcher at Department of Experimental Medicine, Sapienza University of Rome

Part IV- APPOINTMENTS
IV-A ACADEMIC APPOINTMENTS
2010-present, Assistant Professor, Sapienza, University of Rome

IV-B OTHER APPOINTMENTS
Hospital Staff Position
2012-present, Staff Pathologist, Policlinico Umberto I, Sapienza, University of Rome

Part V-TEACHING EXPERIENCE
2010-present, Lecturer, Sapienza University, School of Medicine, course of Anatomic Pathology
2014-present, Lecturer, Sapienza University, International Medical School, course of Anatomic Pathology
2016-present, Member of the Pedagogical Technical Commission, School of Medicine, Sapienza University
2016-present, Semester Coordinator, School of Medicine, Sapienza University
2018-present, Tutor for Quality and Didactics Innovation (GDL-QUID), Sapienza University

Part V- SOCIETY MEMBERSHIPS
2014-present, membership Society for Cardiovascular Pathology (SCVP),
2013-present, membership Association for European Cardiovascular Pathology (AECVP)
2008-present, membership Società Italiana di Anatomia Patologica (SIAPEC/IAP)
2016-present, Coordinator Gruppo di Studio SIAPEC di Cardiopatologia (GIC)

Part VI-AWARDS AND HONORS

2012, Mitochondrial Medicine Capitol Hill Chairman's Prize, Highest Rated United Mitochondrial Disease Fundation Research Grant

2017, Abilitazione Scientifica Nazionale

Part VII- ORGANIZATION OR SPEAKER AT SCIENTIFIC CONFERENCES IN ITALY OR ABROAD

VII A. INVITED SPEAKER

- Integrated morphologic and molecular approach to diagnosis of cardiovascular disease: Cardiomyopathies in neuromuscular disease. 31st European Congress of Pathology, Nice, 7-11 September 2019.
- Neuropatologia delle malattie mitocondriali, 55° Congresso Associazione Italiana di Neuropatologia (AINP) e di Neurobiologia Clinica, Bologna, 23-25 Maggio 2019.
- Attualità e controversie in patologia cardiovascolare. L'interpretazione delle cicatrici miocardiche. Cicatrici post-infartuali. 7° Congresso triennale di Anatomia Patologica, Società Italiana di Anatomia Patologica e Citologia (SIAPEC-IAP). Genova, 23-26 Novembre 2016.
- Il patologo cardiovascolare oggi. Il ruolo del Patologo nella diagnostica e nella ricerca in tema di Cardiomiopatie e miopatie associate. 6° Congresso triennale di Anatomia Patologica, Società Italiana di Anatomia Patologica e Citologia (SIAPEC-IAP). Firenze, 26-30 ottobre 2013.
- Gli effetti dei fitoestrogeni nel trattamento delle malattie mitocondriali, 3° Convegno Nazionale Malattie Mitocondriali (MITOCON); Grand Hotel Duca D'Este - Tivoli Terme, 1-2 giugno 2013,

VII B. SESSION ORGANIZATION

- Diagnostica integrata morfologica, immunoistochimica e molecolare in patologia cardiovascolare. Novità in tema di malattie genetiche ed acquisite del miocardio ed in patologia vascolare. Congresso Annuale Società Italiana di Anatomia Patologica e Citologia (SIAPEC-IAP). Napoli 12-14 ottobre 2017.
- Protocolli per l'analisi autoptica del cuore e dei vasi in caso di procedure di rivascolarizzazione coronarica, protesi vascolari aortiche, dispositivi impiantabili, cardiotossicità e farmaci. Congresso Triennale Società Italiana di Anatomia Patologica e Citologia (SIAPEC-IAP). Torino 16-18 ottobre 2019.

VII C. PARTECIPATION AT INTERNATIONAL CONFERENCES

- Estrogens ameliorate mitochondrial dysfunction in Leber's hereditary optic neuropathy. C Giordano, M Montopoli, E Perli, M Orlandi, M Fantin, A Martinuzzi, A Ghelli, Caparrotta L, FN Ross-Cisneros, AA Sadun, G d'Amati, V Carelli. 8°European Meeting of Mitochondrial Pathology (EUROMIT), Zaragoza 20-23 June, 2011,
- Morphologic, biochemical and molecular features of mitochondrial cardiomyopathy: a diagnostic algorithm. C. Giordano, E. Perli, M. Orlandi, A. Pisano, P. Gallo, A. Terzi, RW. Taylor, G. d'Amati. 5th Biennal Meeting of the Association for European Cardiovascular Pathology (AECVP), Cadiz 4-6 October, 2012
- A specific combination of phytoestrogens ameliorates the mitochondrial dysfunction in Leber's Hereditary Optic Neuropathy. United Mitochondrial Disease Fondation (UMDF) Scientific Meeting, Newport Beach, CA, 9-11 June, 2013.
- Mitochondrial remodeling and oxidative stress in myocardial hypertrophy and heart failure. C. Giordano, M. Orlandi, M. Mancini, M. Pelullo, C. Preziuso, GM. Bates, H. Langping, J. Lucena, P. Lilla Della Monica, C. Nediani, RW. Taylor, G. d'Amati. 6th Meeting of the Association for European Cardiovascular Pathology (AECVP), Paris 9-11 October, 2014.

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Part VIII-JOURNAL EDITORIAL BOARD
2014-present, member, Editorial Board Cardiovascular Pathology
2019-present, associate Editor Scientific Reports

Part IX- REVIEWER ACTIVITY
Cardiovascular Pathology, International Journal Cardiology, Journal of Clinical Medicine, Journal of Translational Medicine, International Journal of Nutritional Neuroscience, Brain, BMJ Case Reports, Human Pathology Case Reports, Cells

Part X-FUNDING INFORMATION

INTERNATIONAL GRANT SUPPORT (Principal Investigator)
2012-15. United Mitochondrial Disease Foundation Grant. Estrogen mediated regulation of respiratory chain biogenesis and functions: possible therapeutic implications for Leber's hereditary optic neuropathy. Amount: 118.000 $

GRANT SUPPORT FROM SAPIENZA (Principal Investigator)
2019, Statin-induced muscle toxicity: a retrospective analysis of muscle biopsies to underline myopathological features. Amount: 3000 Euro
2018, Characterization of iPSC-derived cardiomyocytes from patients with isolated mitochondrial cardiomyopathy. Amount: 3000 Euro
2017, To elucidate the role of muscle biopsy in the differential diagnosis between anti-aminoacyl-tRNA synthetase-related myositis and dermatomyositis. Amount: 3000 Euro
2016, Towards therapeutic applications of leucyl-tRNA synthetase-derived peptides: assessment of tissue-specific effects and rescuing mechanisms. Amount: 4000 Euro
2015, Correlation between inflammatory changes and mitochondrial abnormalities in idiopathic inflammatory myopathies. Amount: 5000 Euro
2013, Therapeutic effects of estrogen-like molecules in Leber's hereditary optic neuropathy. Amount 7000 Euro
2012, Estrogen mediated regulation of mitochondrial biogenesis and functions: possible therapeutic implications for Leber's hereditary optic neuropathy. Amount: 7000

Part XI- MAIN RESEARCH INTERESTS
- Study of genetic cardiomyopathies and juvenile cardiac sudden death
- Study of energetic metabolism in cardiac remodeling
- Study of mitochondrial disease with particular attention to the morphologic substrates and the morpho-molecular correlations in central nervous tissue and skeletal muscle involvement
- Study of the morphologic substrate of genetic and acquired myopathies

PART XII – SUMMARY OF SCIENTIFIC ACHIEVEMENTS

Product type	Number	Data Base	Start	End
Papers (international)	61	Scopus	1997	2019
Papers (national)	3	Scopus	1997	2019
Books chapters (scientific)	1	Scopus	1997	2019
Books chapters(teaching)	1	Scopus	1997	2019

Total Impact factor	332,928

Impact factor (last 10 years)	261,535
Average Impact factor per Product	5,045
Total Citations	1819
Average Citations per Product	27,56
Hirsch (H) index	25
H index (last 10 years)	18

Part XIII–PUBLICATIONS

XIII.A SELECTED PUBLICATIONS

1. Michaud K, Basso C, d'Amati, G **Giordano C**, Kholová I, Preston SD, Rizzo S, Sabatasso S, Sheppard MN, Aryan Vink, van der Wal AC. Diagnosis of myocardial infarction at autopsy: AECVP reappraisal in the light of the current clinical classification. *Virchows Archiv* 2019 Sep 14[Online ahead of print] **IF: 2,936/cited by 2 (Scopus)**

2. Perli E, Pisano A, Glasgow RIC, Carbo M, Hardy SA, Falkous G, He L, Cerbelli B, Pignataro MG, Zacara E, Re F, Della Monica PL, Morea V, Bonnen PE, Taylor RW, d'Amati G, **Giordano C.** Novel compound mutations in the mitochondrial translation elongation factor (TSFM) gene cause severe cardiomyopathy with myocardial fibro-adipose replacement. *Sci Rep.* 2019;9(1):5108. **IF:4,122/cited by 2 (Scopus)**

3. Musarò A, Dobrowolny G, Cambieri C, Onesti E, Ceccanti M, Frasca V, Pisano A, Cerbelli B, Lepore E, Ruffolo G, Cifelli P, Roseti C, **Giordano C**, Gori MC, Palma E, Inghilleri M. Neuromuscular magnetic stimulation counteracts muscle decline in ALS patients: results of a randomized, double-blind, controlled study. *Sci Rep.* 2019; 9: 2837. **IF:4,122/cited by 0 (Scopus)**

4. Cerbelli B, Pisano A, Colafrancesco S, Pignataro MG, Biffoni M, Berni S, De Luca A, Riccieri V, Priori R, Valesini G, d'Amati G, **Giordano C.** Anti-aminoacyl-tRNA synthetase-related myositis and dermatomyositis: clues for differential diagnosis on muscle biopsy. *Virchows Archiv* 2018; 47: 477-487. **IF:2,936/cited by 1 (Scopus)**

5. Gramegna LL, Pisano A, Testa C, Manners DN, D'Angelo R, Boschetti E, Giancola F, Pironi L, Caporali L, Capristo M, Valentino ML, Plazzi G, Casali C, Dotti MT, Cenacchi G, Hirano M, **Giordano C**, Parchi P, Rinaldi R, De Giorgio R, Lodi R, Carelli V, Tonon C. Cerebral mitochondrial microangiopathy leads to leukoencephalopathy in mitochondrial neurogastrointestinal encephalopathy *American Journal of Neuroradiology* 2018*;* 39 (3):427-434. **IF: 3,653/cited by 0 (Scopus)**

6. di Gioia CR*, **Giordano C***, Cerbelli B, Pisano A, Perli E, De Dominicis E, Poscolieri B, Palmieri V, Ciallella C, Zeppilli P, d'Amati G. Nonischemic left ventricular scar and cardiac sudden death in the young. *Hum Pathol.* 2016; 58:78-89. ***Equal contribution IF: 3,014/ cited by 12 (Scopus)**

7. Bottillo I, **Giordano C**, Cerbelli B, D'Angelantonio D, Lipari M, Polidori T, Majore S, Bertini E, D'Amico A, Giannarelli D, De Bernardo C, Masuelli L, Musumeci F, Avella A, Re F, Zachara E, d'Amati G, Grammatico P.A novel LAMP2 mutation associated with

severe cardiac hypertrophy and microvascular remodeling in a female with Danon disease: a case report and literature review. *Cardiovasc Pathol.* 2016; 25(5):423-31. **IF: 2,359/ cited by 15 (Scopus)**

8. Pisano A, Cerbelli B, Perli E, Pelullo M, Bargelli V, Preziuso C, Mancini M, Langping H, Bates MGD, Lucena JR, Lilla Della Monica P, Familiari G, Petrozza V, Nediani C, Taylor RW, d'Amati G, **Giordano C**. Impaired mitochondrial biogenesis is a common feature to myocardial hypertrophy and end stage ischemic heart failure. *Cardiovasc Pathol.* 2016; 25(2):103-12. **IF: 2,359/cited by 25 (Scopus)**

9. Pisano A, Preziuso C, Iommarini L, Perli E, Grazioli P, Campese AF, Maresca A, Montopoli M, Masuelli L, Sadun AA, d'Amati G, Carelli V, Ghelli A, **Giordano C**. Targeting estrogen receptor beta as preventive therapeutic strategy for Leber's Hereditary Optic Neuropathy. Hum Mol Genet. 2015; 15;24(24):6921-31. **IF: 5,985/cited by 28 (Scopus)**

10. Pippucci T, Maresca A, Magini P, Cenacchi G, Donadio V, Palombo F, Papa V, Incensi A, Gasparre G, Valentino ML, Preziuso C, Pisano A, Ragno M, Liguori R, **Giordano C**, Tonon C, Lodi R, Parmeggiani A, Carelli V, Seri M. Homozygous NOTCH3 null mutation and impaired NOTCH3 signaling in recessive early-onset arteriopathy and cavitating leukoencephalopathy. *EMBO Mol Med.* 2015; 13;7(6):848-58. **IF: 8,46/cited by 15 (Scopus)**

11. Brunetti D, Dusi S, **Giordano C**, Lamperti C, Morbin M, Fugnanesi V, Marchet S, Fagiolari G, Sibon O, Moggio M, d'Amati G, Tiranti V. Pantethine treatment is effective in recovering the disease phenotype induced by ketogenic diet in a pantothenate kinase-associated neurodegeneration mouse model. *Brain* 2014; 137:57-68. **IF: 9,915/cited by 38 (Scopus)**

12. **Giordano C**, Iommarini L, Giordano L, Maresca A, Pisano A, Valentino ML, Caporali L, Liguori R, Deceglie S, Roberti M, Fanelli F, Fracasso F, Ross-Cisneros FN, D'Adamo P, Hudson G, Pyle A, Yu-Wai-Man P, Chinnery PF, Zeviani M, Salomao SR, Berezovsky A, Belfort R Jr, Ventura DF, Moraes M, Moraes Filho M, Barboni P, Sadun F, De Negri A, Sadun AA, Tancredi A, Mancini M, d'Amati G. Efficient mitochondrial biogenesis drives incomplete penetrance in Leber's hereditary optic neuropathy. *Brain* 2014; 137:335-353. **IF: 9,915/cited by 115 (Scopus)**

XIII B- OTHER PUBLICATIONS

1. Campos J, Arienzo F, Fusconi M, Cerbelli B, **Giordano C**, Valesini G, Bombardieri M, Fisher BA, Barone F. CXCL13 as biomarker for histological involvement in Sjögren's syndrome. *Rheumatology*, 59, (1), 2020, 165–170. **IF: 5,4**
2. Angelini G, Gissey LC, Del Corpo G, **Giordano C**, Cerbelli B, Severino A, Manco M, Basso N, Birkenfeld AL, SR Bornstein, Genco, Mingrone G, Casella G. New insight into the mechanisms of ectopic fat deposition improvement after bariatric surgery. *Sci Rep*. 2019;9(1):17315. Published 2019 Nov 21. **IF:4,122**

3. d'Amati G, Cerbelli B and **Giordano C**. Pathology of endomyocardial biopsy. *Diagnostic Hystopathology*. 2018; 24(11):433-444

4. d'Amati G, Cerbelli B, **Giordano C**. Coronary atherosclerosis and sudden cardiac death in the young: another face of the culprit, another way of striking? *Int J Cardiol.* 2018;264: 28-29. **IF:4,034**

5. Georg B, Ghelli A, **Giordano C**, Ross-Cisneros FN, Sadun AA, Carelli V, Hannibal J, La Morgia C. Melanopsin-expressing retinal ganglion cells are resistant to cell injury, but not always. *Mitochondrion.* 2017; 36:77-84. **IF:3,226**

6. Bottani E, Cerutti R, Harbour ME, Ravaglia S, Dogan SA, **Giordano C**, Fearnley IM, D'Amati G, Viscomi C, Fernandez-Vizarra E, **Zeviani** M. TTC19 Plays a Husbandry Role on UQCRFS1 Turnover in the Biogenesis of Mitochondrial Respiratory Complex III. *Mol Cell.* 2017; 67(1):96-105.e4. **IF: 14.248**

7. Antinozzi C, Corinaldesi C, **Giordano C**, Pisano A, Cerbelli B, Migliaccio S, Di Luigi L, Stefanantoni K, Vannelli GB, Minisola S, Valesini G, Riccieri V, Lenzi A, Crescioli C. Potential role for the VDR agonist elocalcitol in metabolic control: Evidences in human skeletal muscle cells. *J Steroid Biochem Mol Biol*. 2017; 167:169-181 **IF: 4,095**

8. Manni ME, Rigacci S, Borchi E, Bargelli V, Miceli C, **Giordano C**, Raimondi L, Nediani C. Monoamine Oxidase Is Overactivated in Left and Right Ventricles from Ischemic Hearts: An Intriguing Therapeutic Target. *Oxid Med Cell Longev*.;2016:4375418. **IF: 4,492**

9. Ceccanti M, Cambieri C, Frasca V, Onesti E, Biasiotta A, **Giordano C**, Bruno SM, Testino G, Lucarelli M, Arca M, Inghilleri M.A Novel Mutation in ABCA1 Gene Causing Tangier Disease in an Italian Family with Uncommon Neurological Presentation. *Front Neurol.* 2016;7:185. eCollection 2016. **IF: 3,508**

10. Arcaro A, Pirozzi F, Angelini A, Chimenti C, Crotti L, **Giordano C**, Mancardi D, Torella D, Tocchetti CG. Novel Perspectives in Redox Biology and Pathophysiology of Failing Myocytes: Modulation of the Intramyocardial Redox Milieu for Therapeutic Interventions-A Review Article from the Working Group of Cardiac Cell Biology, Italian Society of Cardiology. *Oxid Med Cell Longev.* 2016;2016:6353469. **IF: 4,492**

11. Perli E, Fiorillo A, **Giordano C**, Pisano A, Montanari A, Grazioli P, Campese AF, Di Micco P, Tuppen HA, Genovese I, Poser E, Preziuso C, Taylor RW, Morea V, Colotti G, d'Amati G. Short peptides from leucyl-tRNA synthetase rescue disease-causing mitochondrial tRNA point mutations. *Hum Mol Genet.* 2016;25(5):903-15. **IF: 5,340**

12. d'Amati G, **Giordano C**. Book chapter: Cardiomyopathies in Cardiovascular Pathology: Fourth Edition pp. 435-483

13. **Giordano C**, Carelli V. Reply: Mitochondrial DNA copy number differentiates the Leber's hereditary optic neuropathy affected individuals from the unaffected mutation carriers. *Brain.* 2016; 139(Pt 1):e2. **IF: 10,292**

14. Giordano L, Deceglie S, d'Adamo P, Valentino ML, La Morgia C, Fracasso F, Roberti M, Cappellari M, Petrosillo G, Ciaravolo S, Parente D, **Giordano C**, Maresca A, Iommarini L, Del Dotto V, Ghelli A, Carelli V, Loguercio Polosa P, Cantatore P. Tobacco toxicity triggers Leber's hereditary optic neuropathy by affecting mtDNA copy number, oxidative phosphorylation and ROS detoxyfication pathways. *Cell Death and Disease.* 2015; 17;6:e2021. **IF: 5,638**

15. Catanzaro D, Gaude E, Orso G, **Giordano C**, Guzzo G, Rasola A, Ragazzi E, Caparrotta L, Frezza C, Montopoli M. Inhibition of glucose-6-phosphate dehydrogenase sensitizes cisplatin-resistant cells to death. *Oncotarget*. 2015; 6;6(30):30102-14. **IF: 5,008**

16. Papetti L, Garone G, Schettini L, **Giordano C**, Nicita F, Papoff P, Zeviani M, Leuzzi V, Spalice A. Severe early onset ethylmalonic encephalopathy with West syndrome. *Metab Brain Dis.* 2015; 30(6):1537-45 **IF: 2,603**

17. Colafrancesco S, Priori R, Gattamelata A, Picarelli G, Minniti A, Brancatisano F, D'Amati G, **Giordano C**, Cerbelli B, Maset M, Quartuccio L, Bartoloni E, Carubbi F, Cipriani P, Baldini C, Luciano N, De Vita S, Gerli R, Giacomelli R, Bombardieri S, Valesini G. Myositis in primary Sjögren's syndrome: data from a multicentre cohort. *Clin Exp Rheumatol.* 2015;33(4):457-64. **IF:3,201**

18. **Giordano C**, Morea V, Perli E, d'Amati G. The phenotypic expression of mitochondrial tRNA-mutations can be modulated by either mitochondrial leucyl-tRNA synthetase or the C-terminal domain thereof. *Front Genet.* 2015 Mar 23;6:113

19. Truini A, Biasiotta A, Onesti E, Di Stefano G, Ceccanti M, La Cesa S, Pepe A, **Giordano C**, Cruccu G, Inghilleri M. Small-fibre neuropathy related to bulbar and spinal-onset in patients with ALS. *J Neurol*. 2015 Apr;262(4):1014-8. **IF 3,783**

20. Ruoppolo G, Schettino I, Biasiotta A, Roma R, Greco A, Soldo P, Marcotullio D, Patella A, Onesti E, Ceccanti M, Albino F, **Giordano C**, Truini A, De Vincentiis M, Inghilleri M. Afferent nerve ending density in the human laryngeal mucosa: potential implications on endoscopic evaluation of laryngeal sensitivity. *Dysphagia.* 2015 Apr;30(2):139-44. **IF: 2,531**

21. **Giordano C**, Autore C, d'Amati G. Mitochondrial tRNA mutations manifest not only as hypertrophic cardiomyopathy but also as noncompaction--reply. *Hum Pathol.* 2014 Aug;45(8):1791-2. **IF: 3,125**

22. Truini A, Biasiotta A, Onesti E, Di Stefano G, Ceccanti M, La Cesa S, Pepe A, **Giordano C**, Cruccu G, Inghilleri M.Does the epidermal nerve fibre density measured by skin biopsy in patients with peripheral neuropathies correlate with neuropathic pain? *Pain.* 2014 Apr;155(4):828-32. 32. **IF: 5,644**

23. Perli E, **Giordano C**, Pisano A, Montanari A, Campese AF, Reyes A, Ghezzi D, Nasca A, Tuppen HA, Orlandi M, Di Micco P, Poser E, Taylor RW, Colotti G, Francisci S, Morea V, Frontali L, Zeviani M, d'Amati G. The isolated carboxy-terminal domain of human mitochondrial leucyl-tRNA synthetase rescues the pathological phenotype of mitochondrial tRNA mutations in human cells. *EMBO Mol Med.* 2014; 6:169-182**. IF: 7,8**

24. Bottani E, **Giordano C**, Civiletto G, Di Meo I, Auricchio A, Ciusani E, Marchet S, Lamperti C, d'Amati G, Viscomi C, Zeviani M. AAV-mediated liver-specific MPV17 expression restores mtDNA levels and prevents diet-induced liver failure. *Molecular Therapy* 2014; 22(1):10-7. **IF: 7,041**

25. Marucci G, Maresca A, Caporali L, Farnedi A, Betts CM, Morandi L, de Biase D, Cerasoli S, Foschini MP, Bonora E, Vidone M, Romeo G, Perli E, **Giordano C**, d'Amati G, Gasparre G, Baruzzi A, Carelli V, Eusebi V. Oncocytic glioblastoma: a glioblastoma showing oncocytic changes and increased mitochondrial DNA copy number. *Hum Pathol.* 2013; 44:1867-76. **IF: 3,03**

26. Priori R, Gattamelata A, D'Amati G, **Giordano C**, Piccioni MG, Valesini G, Framarino-dei-Malatesta M. Myopathy complicating lupus pregnancy. *Journal of Clinical Rheumatology* 2013; 19:132-133. **IF: 1,19**

27. **Giordano C**, Perli E, Orlandi M, Pisano A, Tuppen HA, He L, Ierinò R, Petruzziello L, Terzi A, Autore C, Petrozza V, Gallo P, Taylor RW, d'Amati G. Cardiomyopathies due to homoplasmic mitochondrial tRNA mutations: morphologic and molecular features. *Hum Pathol.* 2013; 44:1262-70. **IF: 3,03**

28. 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 Mol Genet.* 2012; 21:5294-305. **IF: 7,69**

29. Bates MG, Bourke JP, **Giordano C**, d'Amati G, Turnbull DM, Taylor RW. Cardiac involvement in mitochondrial DNA disease: clinical spectrum, diagnosis and management. *Eur Heart J.* 2012; 33:3023-33. **IF: 14,10**

30. Iommarini L, Maresca A, Caporali L, Valentino ML, Liguori R, Giordano C, Carelli V. Revisiting the issue of mitochondrial DNA content in optic mitochondriopathies ***Neurology*** 2012; 79:1517-1519. **IF: 8,25**

31. Perli E, **Giordano C**, Tuppen HA, Montopoli M, Montanari A, Orlandi M, Pisano A, Catanzaro D, Caparrotta L, Musumeci B, Autore C, Morea V, Di Micco P, Campese AF, Leopizzi M, Gallo P, Francisci S, Frontali L, Taylor RW, d'Amati G. Isoleucyl-tRNA synthetase levels modulate the penetrance of a homoplasmic m.4277T>C mitochondrial tRNAIle mutation causing hypertrophic cardiomyopathy. *Hum Mol Genet*. 2012; 21:85-100. **IF: 7,69**

32. **Giordano C**, Viscomi M, Orlandi P, Papoff A, Spalice A, Burlina I, Di Meo, V.Tiranti, V. Leuzzi, G. d'Amati and M. Zeviani. Morphologic evidence of diffuse vascular damage in human and in the experimental model of ethylmalonic encephalopathy. *J Inherit Metab Dis.* 2012; 35:451-458**. IF: 4,04**

33. Gallo P, D'amati G, Di Gioia C, **Giordano C.** Teaching anatomical pathology in the undergraduate curriculum in medicine: the experience of 'C Course', Sapienza University, Rome. *Pathologica.* 2011; 103:27-31.

34. **Giordano C**, d'Amati G. Evaluation of Gastrointestinal mtDNA Depletion in Mitochondrial Neurogastrointestinal Encephalomyopathy (MNGIE). *Methods Mol Biol.* 2011; 755:223-32

35. **Giordano C**, Montopoli M, Perli E, Orlandi M, Fantin M, Ross-Cisneros FN, Caparrotta L, Martinuzzi A, Ragazzi E, Ghelli A, Sadun AA, d'Amati G, Carelli V. Estrogens ameliorate mitochondrial dysfunction in Leber's hereditary optic neuropathy. *Brain* 2011; 134: 220-234. **IF: 9,49**

36. **Giordano C**, Pichiorri F, Blakely EL, Perli E, Orlandi M, Gallo P, Taylor RW, Inghilleri M, d'Amati G. Isolated distal myopathy of the upper limbs associated with mtDNA depletion and polymerase-γ mutations. *Archives of Neurology* 2010; 67:1144-1146. **IF: 7,108**

37. Borchi E, Bargelli V, Stillitano F, **Giordano C**, Sebastiani M, Nassi PA, d'Amati G, Cerbai E, Nediani C. Enhanced ROS production by NADPH-oxidase is correlated to changes in antioxidant enzyme activity in human heart failure. *Biochim Biophys Acta.* 2010; 1802:331-8. **IF: 4,93**

38. **Giordano C**, Powell H, Leopizzi M, De Curtis M, Travaglini C, Sebastiani M, Gallo P, Taylor RW, d'Amati G.Fatal congenital myopathy and gastrointestinal pseudo-obstruction due to POLG1 mutations. *Neurology.* 2009; 72:1103-1105. **IF: 8,017**

39. **Giordano C**, Sebastiani M, De Giorgio R, Travaglini C, Tancredi A, Valentino ML, Bellan M, Cossarizza A, Hirano M, d'Amati G, Carelli V. Gastrointestinal dysmotility in mitochondrial neuro-gastrointestinal encephalomyopathy is caused by mitochondrial DNA depletion. *American Journal of Pathology.* 2008; 173:2120-29. **IF: 5,224**

40. Sebastiani M, **Giordano C**, Nediani C, Travaglini C, Borchi E, Zani M, Feccia M, Mancini M, Petrozza V, Cossarizza A, Gallo P, Taylor RW, d'Amati G.Induction of mitochondrial biogenesis is a maladaptive mechanism in mitochondrial cardiomyopathies. *J Am Coll Cardiol.* 2007; 50:1362-9. **IF: 9,701**

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