

## Publications in refereed journals

1. Calsequestrins new calcium store markers of adult Zebrafish cerebellum and optic tectum. Furlan S, Campione M, **Murgia M**, Mosole S, Argenton F, Volpe P, Nori A (2020). FRONTIERS IN NEUROANATOMY, vol. 14, p. 1-10,
2. Fiber type diversity in skeletal muscle explored by mass spectrometry-based single fiber proteomics Schiaffino S, Reggiani C, **Murgia M** (2020).. HISTOLOGY AND HISTOPATHOLOGY, vol. 35, p. 239-246.
3. Sport, exercise and COVID-19, the disease caused by the SARS-CoV-2 coronavirus. Wackerhage H, Everett R, Krüger K, **Murgia M**, Simon P, Gehlert S, Neuberger E, Baumert P, Schönfelder M (2020). DEUTSCHE ZEITSCHRIFT FÜR SPORTMEDIZIN, vol. 71, p. 29-38, ISSN: 0344-5925
4. Proteomics of Cytochrome c Oxidase-Negative versus -Positive Muscle Fiber Sections in Mitochondrial Myopathy. **Murgia M**, Tan J, Geyer PE, Doll S, Mann M, Klopstock T. Cell Rep. 2019 Dec 17;29(12):3825-3834
5. SILAC-based quantitative proteomics using mass spectrometry quantifies endoplasmic reticulum stress in whole HeLa cells. Itzhak DN, Sacco F, Nagaraj N, Tyanova S, Mann M, **Murgia M**. Dis Model Mech. 2019 Nov 11;12(11).
6. Functional abnormalities in induced Pluripotent Stem Cell-derived cardiomyocytes generated from titin-mutated patients with dilated cardiomyopathy. Schick R, Mekies LN, Shemer Y, Eisen B, Hallas T, Ben Jehuda R, Ben-Ari M, Szantai A, Willi L, Shulman R, Gramlich M, Pane LS, My I, Freimark D, **Murgia M**, Santamaria G, Gherghiceanu M, Arad M, Moretti A, Binah O. PLoS One. 2018 Oct 17;13(10):e0205719.
7. Compartment-resolved Proteomic Analysis of Mouse Aorta during Atherosclerotic Plaque Formation Reveals Osteoclast-specific Protein Expression.
8. Wierer M, Prestel M, Schiller H, Yan G, Schaab C, Azghandi S, Werner J, Kessler T, Malik R, **Murgia M**, Aherrahrou Z, Schunkert H, Dichgans M, Mann M. Mol Cell Proteomics. 2018 Feb;17(2):321-334.
9. Single Muscle Fiber Proteomics Reveals Fiber-Type-Specific Features of Human Muscle Aging. **Murgia M**, Toniolo L, Nagaraj N, Ciciliot S, Vindigni V, Schiaffino S, Reggiani C, Mann M. Cell Rep. 2017 Jun 13;19(11):2396-2409.
10. Role of p66shc in skeletal muscle function. Granatiero V, Gherardi G, Vianello M, Salerno E, Zecchini E, Toniolo L, Pallafacchina G, **Murgia M**, Blaauw B, Rizzuto R, Mammucari C. Sci Rep. 2017 Jul 24;7(1):6283
11. Comments on Stuart et al.(2016):“Myosin content of individual human muscle fibers isolated by laser capture microdissection”. Schiaffino S, **Murgia M**, Leinwand LA, Reggiani C. Am J Physiol Cell Physiol. 2016 Dec 1;311(6):C1048-C1049
12. MRF4 negatively regulates adult skeletal muscle growth by repressing MEF2 activity. Moretti I, Ciciliot S, Dyar KA, Abraham R, **Murgia M**, Agatea L, Akimoto T, Bicciato S,

- Forcato M, Pierre P, Uhlenhaut NH, Rigby PW, Carvajal JJ, Blaauw B, Calabria E, Schiaffino S. Nat Commun. 2016 Aug 3;7:12397
13. Calsequestrins in skeletal and cardiac muscle from adult Danio rerio. Furlan S, Mosole S, **Murgia M**, Nagaraj N, Argenton F, Volpe P, Nori A. J Muscle Res Cell Motil. 2016 Apr;37(1-2):27-39
  14. Mitochondrial specialization revealed by single muscle fiber proteomics: focus on the Krebs cycle. Schiaffino S, Reggiani C, Kostrominova TY, Mann M, **Murgia M**. Scand J Med Sci Sports. 2015 Dec;25 Suppl 4:41-8.
  15. Molecular diversity and pleiotropic role of the mitochondrial calcium uniporter **M Murgia**, R Rizzuto 2015 Cell Calcium 58 (1), 11-17
  16. Deep proteomics of mouse skeletal muscle enables quantitation of protein isoforms, metabolic pathways, and transcription factors. Deshmukh AS, **Murgia M**, Nagaraj N, Treebak JT, Cox J, Mann M. Mol Cell Proteomics. 2015 Apr;14(4):841-53
  17. Antisense-mediated exon skipping: a therapeutic strategy for titin-based dilated cardiomyopathy. Gramlich M, Pane LS, Zhou Q, Chen Z, **Murgia M**, Schötterl S, Goedel A, Metzger K, Brade T, Parrotta E, Schaller M, Gerull B, Thierfelder L, Aartsma-Rus A, Labeit S, Atherton JJ, McGaughan J, Harvey RP, Sinnecker D, Mann M, Laugwitz KL, Gawaz MP, Moretti A. EMBO Mol Med. 2015 May;7(5):562-76
  18. Single muscle fiber proteomics reveals unexpected mitochondrial specialization **Murgia M**, Nagaraj N, Deshmukh AS, Zeiler M, Cancellara P, Moretti I, Reggiani C, Schiaffino S, Mann M. EMBO Rep. 2015 Mar;16(3):387-95.
  19. Comparative proteome analysis of secreted proteins from insulin-resistant C2c12 cells AS Deshmukh, **M Murgia**, P Boersema, M Mann. 2012 The Febs Journal 279, 238
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  22. Controlling metabolism and cell death: at the heart of mitochondrial calcium signalling **M Murgia**, C Giorgi, P Pinton, R Rizzuto. 2009 Journal of molecular and cellular cardiology 46 (6), 781-788
  23. Activity-dependent signaling pathways controlling muscle diversity and plasticity Schiaffino S, Sandri M, **Murgia M**. Physiology (Bethesda). 2007 Aug;22:269-78.
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