

VANINA NATALIA ROMANELLO

Signaling Pathways Controlling Metabolism and Muscle Mass Research Group

Via Orus 2, CAP 35129 Padova, Italy

vanina.romanello@unipd.it

Education:

2001: MSc. Biochemistry, J.A.Maza University, Mendoza, Argentina

2006: PhD in Molecular Biology and Cellular Pathology, Department of Biomedical Sciences, University of Padova, Italy.

2009: MSc. Medical Biology (Biologia Sanitaria), University of Padova, Italy.

Current Position:

Associate Professor General Pathology (MEDS-02/A), Department of Biomedical Sciences, University of Padova

Previous Positions:

-2021-2024: Assistant Professor General Pathology (RTD-b MED-04). Department of Biomedical Sciences, University of Padova

-2019-2021: STARS CoG Principal Investigator, Department of Biomedical Sciences, University of Padova at Venetian Institute of Molecular Medicine. Padova.

-2016- 2019: Assistant Professor General Pathology (RTD-a MED-04). Department of Biomedical Sciences, University of Padova.

-2006- 2016: Postdoctoral Fellow, Venetian Institute of Molecular Medicine. Padova, Italy. Lab. M.Sandri.

Career Breaks

-19/07/2010-19/04/2011 Maternity leave (9 months)

-12/11/2013-12/09/2014 Maternity leave (10 months)

Abilitazioni Scientifiche Nazionali

-Abilitazione alla Seconda Fascia Settore Concorsuale 06/A2 (**MED/04**) **Patologia Generale e Patologia Clinica** (BANDO D.D. 1532/2016). From 09/09/19 to 09/09/2030.

-Abilitazione alla Seconda Fascia Settore Concorsuale 05/D1 (**BIO/09**) **Fisiologia**. (BANDO D.D. 2175/2018). From 10/07/2020 to 10/07/2031.

-Abilitazione alla Seconda Fascia Settore concorsuale 05/E1 (**BIO/10**) **Biochimica generale** (BANDO D.D. 1532/2016). From 24/09/2018 to 24/09/2029

-Abilitazione alla Seconda Fascia Settore concorsuale 05/F1 (**BIO/13**) **Biologia Applicata** (BANDO D.D. 1532/2016) From 18/09/2018 to 18/09/2029

Teaching Activity:

A.A. 2024/25

-Lecturer in Clinical Pathology MEDS-02/A, 24 hours in the Faculty of Medicine (Corso di Laurea in Medicina e Chirurgia- Padova)

-Lecturer in General Pathology MEDS-02/A, 20 hours in the Faculty of Medicine (Corso di Laurea in Infermieristica-Sede di Mestre)

- Lecturer in General Pathology MEDS-02/A, 40 hours in the Faculty of Medicine (Corso di Laurea in Ostetricia-Sede di Vicenza)

A.A. 2023/24

- Lecturer in Clinical Pathology MED/04, 24 hours in the Faculty of Medicine (Corso di Laurea in Medicina e Chirurgia- Padova)
- Lecturer in General Pathology MED/04, 20 hours in the Faculty of Medicine (Corso di Laurea in Infermieristica-Sede di Feltre)
- Lecturer in General Pathology MED/04, 40 hours in the Faculty of Medicine (Corso di Laurea in Ostetricia-Sede di Vicenza)

A.A. 2022/23

- Lecturer in Clinical Pathology MED/04, 24 hours in the Faculty of Medicine (Corso di Laurea in Medicina e Chirurgia- Padova)
- Lecturer in General Pathology MED/04, 20 hours in the Faculty of Medicine (Corso di Laurea in Infermieristica-Sede di Feltre)
- Lecturer in General Pathology MED/04, 40 hours in the Faculty of Medicine (Corso di Laurea in Ostetricia-Sede di Vicenza)

A.A. 2021/22

- Lecturer in General Pathology MED/04, 40 hours in the Faculty of Medicine (Corso di Laurea in Infermieristica-Sede di Feltre)
- Teaching assistant in Patologia Generale e Fisiopatologia MED/04 (esercitazioni), 16 hours in the Faculty of Medicine (Corso di Laurea in Medicina e Chirurgia- Padova)

A.A. 2018/19

- Teaching assistant in Patologia Generale e Fisiopatologia MED/04 (esercitazioni), 16 hours in the Faculty of Medicine (Corso di Laurea in Medicina e Chirurgia- Padova)
- Lecturer in Human Physiology BIO/09, 30 hours in the Faculty of Medicine (Obstetrics)
- Lecturer in Human Physiology BIO/09, 24 hours in the Faculty of Bioengineering, University of Padova

A.A. 2017/18:

- Lecturer in Human Physiology BIO/09, 30 hours in the Faculty of Medicine (Obstetrics)
- Lecturer in Human Physiology BIO/09, 24 hours in the Faculty of Bioengineering, University of Padova

A.A. 2015/16: Teaching Assistant in Human Physiology BIO/09, 20 hours in the Course in Techniques in Neurophysiopathology. University of Padova. Organization and Execution of practical laboratory activities.

A.A. 2012/13: Lecturer in Human Physiology BIO/09, 30 hours in Faculty of Medicine (Obstetrics), University of Padova (insegnamento a contratto).

A.A 2011/12: Lecturer in Human Physiology BIO/09, 30 hours in Faculty of Medicine (Obstetrics), University of Padova (insegnamento a contratto).

A.A 2004/2005: Teaching Assistant in Pathology and Immunology MED/04, 25 hours in Faculty of Biology, University of Padova. Organization and Execution of practical laboratory Activities (insegnamento a contratto).

A.A 2003/2004: Teaching Assistant in Pathology and Immunology MED/04, 25 hours in Faculty of Biology, University of Padova. Organization and Execution of practical laboratory Activities (insegnamento a contratto).

A.A 2002/2003: Teaching Assistant in Molecular Biology BIO/11, 25 hours in Faculty of Biology, University of Padova (insegnamento a contratto).

2001: Lecturer in Inorganic Chemistry in Faculty of Pharmacy and Biochemistry.

University Juan Agustin Maza, Mendoza, Argentina.

Supervision of Students and Postdoctoral Fellows:

Tutorship of master students:

- Master students belonging to Erasmus Traineeship Program:
 1. Katsigaraki Aikaterini, Greece (2017). Project Title: Role of mitochondrial dynamics in muscle homeostasis.
 2. Panti Georgiana, Greece (2017). Project Title: Role of a new E3 ubiquitin ligase Asb2b in skeletal muscle
 3. Oost Lynette, The Netherlands (2018). Project Title: The role of the myokine FGF21 on skeletal muscle homeostasis.
- Master Students from the Faculty of Pharmacy, University of Padova:
 1. Scalabrin Marco (2018). Role of a novel E3 ubiquitin ligase Asb2b in skeletal muscle homeostasis.
 2. Raumer Anna (2019). Project Title: Drp1 role in skeletal muscle homeostasis.
- Master Student from Food and Health Faculty, University of Padova:
 1. Natalia Archuleta (2023). The in vivo role of muscle peroxisomes in diet-induced obesity.
 2. Ilaria Davigo (2024). The role of pexophagy in muscle mass maintenance

Co-Supervisor of PhD students from the PhD program in Biomedical Sciences:

1. Franco Romero Anais (2015-2018). Project Title: Characterization of a novel FoxO-dependent AtroGene.
2. Tezze Caterina (2019-2021). Project Title: OPA1 orchestrates precocious senescence, degeneration of multiple organs and premature death through inflammation and metabolic changes.
3. Scalabrin Marco (2021-2023). Project Title: Peroxisomal-mitochondrial interaction impinging on muscle function.
4. Eloisa Turco (2023-2026). Project Title: Peroxisomal and mitochondrial role on skeletal muscles homeostasis

Supervisor of PhD students from the PhD program in Biomedical Sciences:

Esposito Martina (2023-2026). Project Title: Characterization of the ubiquitin ligase MUSA1 in protein breakdown and organ function

Supervision of 5 Postdoctoral Fellows:

- Pescatore Francesca (2016-2017), Favaro Giulia (2018-2019), Tezze Caterina (2020-2022), Trani Giulia (2020-2022), Scalabrin Marco (2023-2024)

Institutional Responsibilities and Commissions of Trust

- 2024: Organizer of the Second Symposium between the Universities of Lyon, Padua, Lausanne and the Nestlé Institute of Health Sciences, July 1-2, Lausanne, Switzerland.
- 2023-2026: Panel Member of Comité d'évaluation scientifique CE14 Physiology and Physiopathology, The French National Research Agency (ANR).
- 2023-2026: Member of Giunta of Department of biomedical sciences.
- 2023-2026: Member of Commissione Didattica of Department of biomedical sciences.
- 2023-Present: Arqus delegate of Department of biomedical sciences.
- 2023: Organizer of the First Symposium between the Universities of Lyon, Padua, Lausanne and the Nestlé Institute of Health Sciences, April 27-28, Padova Italy.

- 2023: Organizer DSB Retreat, 26-27/10/2023, Villa Borromeo Padova.
- 2022-Present: Faculty Committee, PhD school in Biomedical Sciences, University of Padova.
- 2022 Member: of Giunta del Dipartimento di Scienze Biomediche.
- 2021-2024: Member of PhD committee in the Doctoral School EDISS ED 205 Sciences, Health, Interdisciplinary, Lyon France. Student: Ha My Ly, Thesis "Roles of the AMPK-related Kinase NUA1 in skeletal muscle homeostasis".
- 2020: Member of the Poster Blitz Award Jury 17th IMM-Myology Meeting "Pathogenesis and Therapies of Neuromuscular Diseases" October 16-18, 2020, Virtual Conference
- 2019: Member of The Poster Award Jury of the Gordon Conference, Myogenesis. Building, Maintaining and Regenerating Skeletal Muscle. June 9-14, 2019. Renaissance Tuscany Il Ciocco, Lucca, Italy.
- 2016-2019 Organizer of Muscle Meetings in VIMM institute and in the Department of Biomedical Sciences.
- 2016 –2018: Coordinator of Journal Clubs, PhD program in Biomedical Sciences, University of Padova.

Reviewing Activities

Journal Reviewer for eLife, PLOS ONE, Journal of Cachexia, Sarcopenia and Muscle, The American Journal of Clinical Nutrition, Cellular Physiology and Biochemistry, Oxidative Medicine and Cellular Longevity, Scandinavian Journal of Medicine & Science in Sports, Acta Physiologica, Aging, Aging Cell, Frontiers in Endocrinology, Frontiers in Physiology, Biology Open, Bone, Cellular and Molecular Life Sciences, International Journal of Molecular Sciences, Elife, and Scientific Reports

Grant Reviewer for Association Française Contre les Myopathies (AFM), The French National Research Agency (ANR), IDEXLYON Scientific Breakthrough Program, University of Lyon, and Austrian Science Fund (FWF).

Oral Presentations as Invited Speaker

- EMBO Workshop, Skeletal Muscle Development, Metabolism, and Repair during Homeostasis and Disease, 12 – 17 October 2024 Catania, Sicily, Italy
- MuSKLE Summer School 2024, June 04, 2024, Lyon France
- Experimental Health Research Conference (EHRC), June 21-23, 2023, Tromsø Norway
- Scandinavian Physiological Society, September 2-5, 2021 Stockholm, Sweden
- Gordon Conference, Myogenesis. Building, Maintaining and Regenerating Skeletal Muscle. June 9-14, 2019. Renaissance Tuscany Il Ciocco, Lucca, Italy
- International Conference on Cachexia, Sarcopenia & Muscle Wasting, December 7-9, 2018, Maastricht, The Netherlands.
- Seminar at Institut NeuroMyoGène Lyon, France, 16-05-2018
- Spazio Nutrizione, Il recupero del muscolo, ruolo della autofagia May 10th, Milan, Italy.
- 7th EFSMA Congress (European Federation) of Sport Medicine Association, October 29th, 2011, Salzburg Austria.

Oral Presentations Selected from Abstracts

- First Symposium between the Universities of Lyon, Padua, Lausanne and the Nestlé Institute of Health Sciences, April 27-28, Padova Italy.
- Molecular Mechanisms of Muscle Wasting During Aging and Disease Conference, September 11-16, Ascona Switzerland.
- Gordon Conference, Integrative Biology of Aging: New Insights from Molecules to Systems July 9-14, 2017, Les Diablerets Switzerland.

- EMBO Workshop, Molecular mechanisms of muscle growth and wasting in health and disease September 20 - 25, 2015, Ascona, Switzerland.
- 4 Meeting IIM (Istituto Interuniversitario di Miologia), 21-24 Novembre 2007, Rome Italy.
- Venetian Institute of Molecular Medicine 6th Annual Retreat; November 16-17 2007, Marostica Italy.
- Dulbecco Telethon Institute 5th Scientific Retreat, May 27-29, 2007, Foligno Italy.
- EMBO World Programme, Phagocytosis and Intracellular microorganisms August 23 to September 3, 2004, Mendoza, Argentina.
- ENII-EMBO Workshop on Mechanisms of Immunity, May 26-30, 2004, Ile Des Embiez, France.

Grants as Scientific Coordinator

- The in vivo role of peroxisomes in the control of muscle function. Association Francaise Contre les Myopathies (AFM) 2022-2025
- Defining the role of skeletal muscle peroxisomes in Zellweger Spectrum Disorders. Telethon Round 1 2023-2025
- Unexplored pathways in the regulation of muscle metabolism SID DSB 2022-2024.
- “Novel player in the control of Metabolism. Focus on Proteostasis, Mitochondria, and Peroxisomes”, STARS Consolidator Grants (STARS-CoG)” 2019-2021
- "Deciphering a novel link between the ubiquitin proteasome system and mitochondrial function to control muscle mass" Association Francaise Contre les Myopathies (AFM) 2019-2022.
- “Defining the contribution of calcium and mitochondria to age-related muscle loss” Starting Grants Cariparo 2016-2019
- “The role of a novel muscle-specific ubiquitin ligase in the control of muscle mass” SID 2018-2021
- FONDO DI FINANZIAMENTO PER LE ATTIVITA BASE DI RICERCA (FFARB) 2018, ANVUR

Fellowships and Awards

- 2024: Progetto di premialità per la didattica, University of Padova
- 2024: Seal of excellence in teaching, Department of Biomedical Sciences, University of Padova
- 2018: Poster Prize for “FGF21 controls mitophagy and Muscle Mass” in the International Conference on Muscle Wasting, Ascona Switzerland September 2018
- 2007: Best Presentation award Ennio Manzin e Mario Fioretti - I edizione - for: “Mitochondrial Fragmentation induces muscle wasting via AMPK-FoxO pathway” VIMM, Italy
- 2006-2007: Visiting Scientist in Dr Ruediger Rudolf’s laboratory, Karlsruhe Germany
- 2001. Visiting Scientist AECI, Centro de Biologia Molecular “Severo Ochoa”, Universidad Autonoma, Madrid, Spain. Lab of J.Ayala

Publications: I have published 42 articles on international peer-reviewed journals. H-index 31, citations 7887 (Scopus)

Publications as first or corresponding author

1. Scalabrin M, Turco E, Nogara L, Gherardi G, Trani G, Negro S, Franco Romero A, Jaspers Y, Baschiera E, De Cegli R, Del Prete E, Cali T, Blaauw B, Salviati L, Rigoni M, Mammucari C, Caspar-Bauguil S, Moro C, Sandri M, Kemp S and Romanello V*

Alterations in peroxisomal-mitochondrial interplay in skeletal muscle accelerates muscle dysfunction bioRxiv 2024.04.25.591056; doi: <https://doi.org/10.1101/2024.04.25.591056> Under revision in Nat Comm * **corresponding**

2. Boardman NT, Trani G, Scalabrin M, **Romanello V***, Wüst RCI. Intra-cellular to inter-organ mitochondrial communication in striated muscle in health and disease. *Endocr Rev*. 2023 Feb 26. * **corresponding, IF:25,26**
3. **Romanello V***, Sandri M. Implications of mitochondrial fusion and fission in skeletal muscle mass and health. *Semin Cell Dev Biol*. 2022 Feb 12:S1084-9521(22)00050-7. * **corresponding, IF:7,49**
4. Sartori R, **Romanello V*** & Sandri, M. Mechanisms of muscle atrophy and hypertrophy: implications in health and disease. *Nat Commun* 12, 330 (2021). * **corresponding, IF:17,69**
5. **Romanello V***. FGF21: a promising therapeutic agent for alcoholic cardiomyopathy?†. *J Pathol*. 2021 Jul;254(3):213-215 (Invited Commentary) * **corresponding, IF: 5,94**
6. **Romanello V*** The Interplay between Mitochondrial Morphology and Myomitokines in Aging Sarcopenia. *Int J Mol Sci*. 2020 Dec 23;22(1) * **corresponding, IF: 6,2**
7. **Romanello V*** & Sandri M. The connection between the dynamic remodeling of the mitochondrial network and the regulation of muscle mass. *Cell Mol Life Sci*. 2020 Oct 19. * **corresponding, IF: 9.26**
8. Oost LJ, Sandri M, **Romanello V***. The authors reply: Letter on: "Fibroblast growth factor 21 controls mitophagy and muscle mass" by Oost et al. *J Cachexia Sarcopenia Muscle*. 2020 Feb;11(1):338-340 * **corresponding, IF: 12.06**
9. **Romanello V***, Scalabrin M., Albiero M., Blaauw B., Scorrano L., Sandri M*. Inhibition of the Fission Machinery Mitigates Opa1 Impairment in Adult Skeletal Muscles. *Cells* 2019, 8(6), 597;* **corresponding, IF: 7,66**
10. Favaro G*, **Romanello V***, Varanita T, Andrea Desbats M, Morbidoni V, Tezze C, Albiero M, Canato M, Gherardi G, De Stefani D, Mammucari C, Blaauw B, Boncompagni S, Protasi F, Reggiani C, Scorrano L, Salviati L, Sandri M. Drp1 mediated mitochondrial shape controls calcium homeostasis and muscle mass. *Nat Commun*. 2019 Jun 12;10(1):2576.* **co-first, IF:17,69**
11. Oost L, Kustermann M, Armani A, Blaauw B, **Romanello V***. Fgf21 controls mitophagy and muscle mass. *J Cachexia Sarcopenia Muscle* 2019 Mar 20. ***corresponding IF: 12.06** Tezze C, **Romanello V***, Desbats MA, Fadini GP Albiero M, Favaro G, Ciciliot S, Soriano ME, Morbidoni V, Cerqua C, Loeffler S, Kern H, Franceschi C, Salvioli S, Conte M, Blaauw B, Zampieri S, Salviati L, Scorrano L, Sandri M. Age-Associated Loss of OPA1 in Muscle Impacts Muscle Mass, Metabolic Homeostasis, Systemic Inflammation, and Epithelial Senescence. *Cell Metab*. 2017 May 19. ***co-first IF: 31,37**
12. **Romanello V*** & Sandri M. Mitochondrial Quality Control and Muscle Mass Maintenance *Front Physiol*. 2016 Jan 12;6:422. ***corresponding IF: 4,75**
13. Milan G, **Romanello V***, Pescatore F, Armani A, Paik JH, Frasson L, Seydel A,Zhao J, Abraham R, Goldberg AL, Blaauw B, DePinho RA, Sandri M. Regulation of autophagy and the ubiquitin-proteasome system by the FoxO transcriptional network during muscle atrophy. *Nat Commun*. 2015 Apr 10;6:6670. ***co-first IF:17,69**
14. **Romanello V*** & Sandri M. Mitochondrial biogenesis and fragmentation as regulators of protein degradation in striated muscles. *J Mol Cell Cardiol*. 2013 Feb;55:64-72. ***corresponding IF:5,76**
15. **Romanello V**, Sandri M. Mitochondrial biogenesis and fragmentation as regulators of muscle protein degradation. *Curr Hypertens Rep*. 2010 Dec;12(6):433-9. **IF:4,73**

16. **Romanello V**, Guadagnin E, Gomes L, Roder I, Sandri C, Petersen Y, Milan G, Masiero E, Del Piccolo P, Foretz M, Scorrano L, Rudolf R, Sandri M. Mitochondrial fission and remodeling contributes to muscle atrophy. *EMBO J*. 2010 May 19;29(10):1774-85. **IF: 13,78**
17. **Romanello V**, Marcacci M, Molin FD, Moschioni M, Censini S, Covacci A, Baritussio AG, Montecucco C, Tonello F. Cloning, expression, purification, and characterization of *Streptococcus pneumoniae* IgA1 protease. *Protein Expr Purif*. 2006 Jan;45(1):142-9. **IF: 1,65**

Main Publications as contributing author

1. Franco-Romero A, Morbidoni V, Milan G, Sartori R, Wulff J, **Romanello V**, Armani A, Salviati L, Conte M, Salvioli S, Franceschi C, Buonomo V, Swoboda CO, Grumati P, Pannone L, Martinelli S, Jefferies HB, Dikic I, van der Laan J, Cabreiro F, Millay DP, Tooze SA, Trevisson E, Sandri M. C16ORF70/Mytho promotes healthy ageing in *C. elegans* and prevents cellular senescence in mammals. *J Clin Invest*. 2024 Jun 13:e165814.
2. Bock T, Türk C, Aravamudan S, Keufgens L, Bloch W, Rozsivalova DH, **Romanello V**, Nogara L, Blaauw B, Trifunovic A, Braun T, Krüger M. PERM1 interacts with the MICOS-MIB complex to connect the mitochondria and sarcolemma via ankyrin B. *Nat Commun*. 2021 Aug 12;12(1):4900.
3. Tezze C, **Romanello V**, Sandri M. FGF21 as Modulator of Metabolism in Health and Disease. *Front Physiol*. 2019 Apr 17;10:419.
4. Dyar KA, Hubert MJ, Mir AA, Ciciliot S, Lutter D, Greulich F, Quagliarini F, Kleinert M, Fischer K, Eichmann TO, Wright LE, Peña Paz MI, Casarin A, Pertegato V, **Romanello V**, Albiero M, Mazzucco S, Rizzuto R, Salviati L, Biolo G, Blaauw B, Schiaffino S, Uhlenhaut NH. Transcriptional programming of lipid and amino acid metabolism by the skeletal muscle circadian clock. *PLoS Biol*. 2018 Aug 10;16(8).
5. Rodríguez-Nuevo A, Díaz-Ramos A, Noguera E, Díaz-Sáez F, Duran X, Muñoz JP, Romero M, Plana N, Sebastián D, Tezze C, **Romanello V**, Ribas F, Seco J, Planet E, Doctrow SR, González J, Borràs M, Liesa M, Palacín M, Vendrell J, Villarroya F, Sandri M, Shirihai O, Zorzano A. Mitochondrial DNA and TLR9 drive muscle inflammation upon Opa1 deficiency. *EMBO J*. 2018 May 15;37(10).
6. Kravic B, Harbauer AB, **Romanello V**, Simeone L, Vögtle FN, Kaiser T, Straubinger M, Huraskin D, Böttcher M, Cerqua C, Martin ED, Poveda-Huertes D, Buttgerit A, Rabalski AJ, Heuss D, Rudolf R, Friedrich O, Litchfield D, Marber M, Salviati L, Mougiakakos D, Neuhofer W, Sandri M, Meisinger C, Hashemolhosseini S. In mammalian skeletal muscle, phosphorylation of TOMM22 by protein kinase CSNK2/CK2 controls mitophagy. *Autophagy*. 2018;14(2):311335.
7. Mansueto G, Armani A, Viscomi C, D'Orsi L, De Cegli R, Polishchuk EV, Lamperti C, Di Meo I, **Romanello V**, Marchet S, Saha PK, Zong H, Blaauw B, Solagna F, Tezze C, Grumati P, Bonaldo P, Pessin JE, Zeviani M, Sandri M, Ballabio A. Transcription Factor EB Controls Metabolic Flexibility during Exercise. *Cell Metab*. 2017 Jan
8. Barbieri E, Guescini M, Calcabrini C, Vallorani L, Diaz AR, Fimognari C, Canonico B, Luchetti F, Papa S, Battistelli M, Falcieri E, **Romanello V**, Sandri M, Stocchi V, Ciacci C, Sestili P. Creatine Prevents the Structural and Functional Damage to Mitochondria in Myogenic, Oxidatively Stressed C2C12 Cells and Restores Their Differentiation Capacity. *Oxid Med Cell Longev*. 2016;2016:5152029.
9. Rocchi A, Milioto C, Parodi S, Armirotti A, Borgia D, Pellegrini M, Urciuolo A, Molon S, Morbidoni V, Marabita M, **Romanello V**, Gatto P, Blaauw B, Bonaldo P, Sambataro F,

- Robins DM, Lieberman AP, Sorarù G, Vergani L, Sandri M, Pennuto M. Glycolytic-to-oxidative fiber-type switch and mTOR signaling activation are early-onset features of SBMA muscle modified by high-fat diet. *Acta Neuropathol.* 2016 Jul;132(1):127-44.
- 10.** Varanita T, Soriano ME, **Romanello V.**, Zaglia T, Quintana-Cabrera R, Semenzato M, Menabò R, Costa V, Civiletto G, Pesce P, Viscomi C, Zeviani M, Di Lisa F, Mongillo M, Sandri M, Scorrano L. The Opa1-Dependent Mitochondrial Cristae Remodeling Pathway Controls Atrophic, Apoptotic and Ischemic Tissue Damage. *Cell Metab.* 2015 Jun 2;21(6)
- 11.** De Palma C, Morisi F, Pambianco S, Assi E, Touvier T, Russo S, Perrotta C, **Romanello V**, Carnio S, Cappello V, Pellegrino P, Moscheni C, Bassi MT, Sandri M, Cervia D, Clementi E. Deficient nitric oxide signalling impairs skeletal muscle growth and performance: involvement of mitochondrial dysregulation. *Skelet Muscle.* 2014 Dec 12;4(1):22.
- 12.** Mammucari C, Milan G, **Romanello V**, Masiero E, Rudolf R, Del Piccolo P, Burden SJ, Di Lisi R, Sandri C, Zhao J, Goldberg AL, Schiaffino S, Sandri M. FoxO3 controls autophagy in skeletal muscle in vivo. *Cell Metab.* 2007 Dec;6(6):458-471

Varina Romanello

06/02/25



UNIVERSITÀ
DEGLI STUDI
DI PADOVA



FONDAZIONE
RICERCA BIOMEDICA
AVANZATA ONLUS
V.I.M.M.