

Curriculum vitae Isabella Russo

Personal details

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Scopus ID: 7006673440

Researcher ID: AAC-5779-2020

Educations

2007 - PhD in Pharmacology and Sperimental and Clinical Therapy, University of Turin

2003 - Specialization in Clinical Pathology, University of Turin

1994 - Degree in Biological Sciences, University of Turin

Current employment

Assistant Professor in Clinical Biochemistry and Molecular Clinical Biology at University of Turin, Department of Clinical and Biological Sciences.

Teaching activity

-Clinical Biochemistry - first cycle degree course in Biomedical Laboratory Techniques, School of Medicine, University of Turin

-Clinical Biochemistry - second cycle degree course in Food and Human Nutrition, School of Science of Nature, University of Turin

-PhD in Experimental Medicine and Therapy, Department of Clinical and Biological Sciences, University of Turin

Research topics

Her research activity is concerned with pathophysiological mechanisms implicated in atherothrombosis in metabolic diseases, with an approach that ranges from the biochemistry of macromolecules and their interactions, to molecular and cellular biology. Specifically, she has focused the attention on functions and impairments of peculiar biochemical processes in vascular cells in condition of obesity, insulin-resistance, diabetes, and hypercholesterolemia. The main topics of her research activity can be summarized as follows: (i) insulin effects on vascular smooth muscle cells, platelets, and neutrophils; (ii) role of endogenous synthesis of nitric oxide on platelet function and vascular smooth muscle cells (iii) platelet response to pharmacological substances (i.e. nitric oxide donors, insulin, aspirin, PCSK9 inhibitors, GLP-1 agonists); (iii) studies on platelet dysfunction before and after pharmacological/dietary intervention in patients affected by diabetes, obesity or dyslipidemia. She is author/coauthor of more 70 publications on peer-reviewed International Journals and she has served as speaker in more than 100 National/International Meetings.

Society memberships

Member

European Association for the Study of Diabetes (EASD)

Member
Italian Society of Diabetology (SID)

Member
Italian Society for the Study of Thrombosis and Haemostasis (SISST)

Member
Italian Society for the Study of Atherosclerosis (SISA)

Editorial experience

Reviewer activity for the following international journals:

Acta Physiologica
Advanced Science
Advanced Therapeutics
Antioxidants
Arteriosclerosis, Thrombosis, and Vascular Biology
Biology
Biomedicines
Canadian Journal of Physiology and Pharmacology
Cancers
Cardiovascular Diabetology
Cellular Physiology and Biochemistry
Diabetes
European Heart Journal
Experimental Gerontology
International Journal of Molecular Sciences
Journal of Cardiovascular Pharmacology and Therapeutics
Metabolites
Minerva Endocrinology
Nutrition, Metabolism and Cardiovascular Diseases
Oxygen
Platelets
PlosOne
Thrombosis Research
Translational Research
Vascular Pharmacology

Associate Editor for Frontiers in Cardiovascular Medicine

*Guest Editor for International Journal of Molecular Sciences
Special Issues:*

- "Advances in Biological Functions of Platelet"
- "Molecular Research on Platelet Function in Disease"
- "Recent Advances in Biological Functions of Platelet"
- "Frontiers on Thrombosis"
- "Frontiers in Cardiometabolic Diseases"

Bibliometry (1992-present)

At 20th April 2023:

Scopus: H-index 27, citations: 1884
ISI Web of Science: H-index 25, citations: 1493

Publications of last 10 years

1. Platelets and Cardioprotection: The Role of Nitric Oxide and Carbon Oxide.
Russo I, Barale C, Melchionda E, Penna C, Pagliaro P. *Int J Mol Sci.* 2023 Mar 24;24(7):6107.
2. Shedding Light on the Pathogenesis of Splanchnic Vein Thrombosis.
Camerlo S, Ligato J, Rosati G, Carrà G, **Russo I**, De Gobbi M, Morotti A. *Int J Mol Sci.* 2023 Jan 23;24(3):2262.
3. Platelet Redox Imbalance in Hypercholesterolemia: A Big Problem for a Small Cell.
Morotti A, Barale C, Melchionda E, **Russo I**. *Int J Mol Sci.* 2022 Sep 28;23(19):11446.
4. Clonal hematopoiesis by DNMT3A mutations as a common finding in idiopathic splanchnic vein thrombosis.
Carrà G, Giugliano E, Camerlo S, Rosati G, Branca E, Maffeo B, **Russo I**, Piazza R, Cilloni D, Morotti A. *Haematologica.* 2022 Oct 13.
5. Proprotein Convertase Subtilisin Kexin Type 9 (PCSK9) Beyond Lipids: The Role in Oxidative Stress and Thrombosis.
Cammisotto V, Baratta F, Simeone PG, Barale C, Lupia E, Galardo G, Santilli F, **Russo I**, Pignatelli P. *Antioxidants (Basel).* 2022 Mar 16;11(3):569.
6. Prothrombotic Phenotype in COVID-19: Focus on Platelets.
Barale C, Melchionda E, Morotti A, **Russo I**. *Int J Mol Sci.* 2021 Dec 20;22(24):13638.
7. Proprotein Convertase Subtilisin Kexin Type 9 Inhibitors Reduce Platelet Activation Modulating ox-LDL Pathways.
Cammisotto V, Baratta F, Castellani V, Bartimoccia S, Nocella C, D'Erasmo L, Cocomello N, Barale C, Scicali R, Di Pino A, Piro S, Del Ben M, Arca M, **Russo I**, Purrello F, Carnevale R, Violi F, Pastori D, Pignatelli P. *Int J Mol Sci.* 2021 Jul 3;22(13):7193.
8. Thrombopoietin Contributes to Enhanced Platelet Activation in Patients with Type 1 Diabetes Mellitus.
Bosco O, Vizio B, Gruden G, Schiavello M, Lorenzati B, Cavallo-Perin P, **Russo I**, Montrucchio G, Lupia E. *Int J Mol Sci.* 2021 Jun 29;22(13):7032. doi: 10.3390/ijms22137032.
9. PCSK9 Biology and Its Role in Atherothrombosis. Barale C, Melchionda E, Morotti A, **Russo I**. *Int J Mol Sci.* 2021 May 30;22(11):5880.
10. Ticagrelor Conditioning Effects Are Not Additive to Cardioprotection Induced by Direct NLRP3 Inflammasome Inhibition: Role of RISK, NLRP3, and Redox Cascades.

Penna C, Aragno M, Cento AS, Femminò S, **Russo I**, Bello FD, Chiazza F, Collotta D, Alves GF, Bertinaria M, Zicola E, Mercurio V, Medana C, Collino M, Pagliaro P. *Oxid Med Cell Longev*. 2020 Aug 3;2020:9219825.

11. Association between High On-Aspirin Platelet Reactivity and Reduced Superoxide Dismutase Activity in Patients Affected by Type 2 Diabetes Mellitus or Primary Hypercholesterolemia. Barale C, Cavalot F, Frascaroli C, Bonomo K, Morotti A, Guerrasio A, **Russo I**. *Int J Mol Sci*. 2020 Jul 15;21(14):4983.

12. Influence of Cardiometabolic Risk Factors on Platelet Function. Barale C, **Russo I**. *Int J Mol Sci*. 2020 Jan 17;21(2):623.

13. Platelet function and activation markers in primary hypercholesterolemia treated with anti-PCSK9 monoclonal antibody: A 12-month follow-up. Barale C, Bonomo K, Frascaroli C, Morotti A, Guerrasio A, Cavalot F, **Russo I**. *Nutr Metab Cardiovasc Dis*. 2020 Feb 10;30(2):282-291.

14. Nuclear-cytoplasmic Shuttling in Chronic Myeloid Leukemia: Implications in Leukemia Maintenance and Therapy. Carrà G, **Russo I**, Guerrasio A, Morotti A. *Cells*. 2019 Oct 14;8(10):1248.

15. Hypercholesterolemia impairs the Glucagon-like peptide 1 action on platelets: Effects of a lipid-lowering treatment with simvastatin. Barale C, Frascaroli C, Cavalot F, **Russo I**. *Thromb Res*. 2019 Aug;180:74-85.

16. Transferrin Saturation Inversely Correlates with Platelet Function. Barale C, Senkeev R, Napoli F, De Gobbi M, Guerrasio A, Morotti A, **Russo I**. *Thromb Haemost*. 2019 May;119(5):766-778.

17. Simvastatin Effects on Inflammation and Platelet Activation Markers in Hypercholesterolemia. Barale C, Frascaroli C, Senkeev R, Cavalot F, **Russo I**. *Biomed Res Int*. 2018 Oct 1;2018:6508709.

18. Cardioprotective Properties of Human Platelets Are Lost in Uncontrolled Diabetes Mellitus: A Study in Isolated Rat Hearts. **Russo I**, Femminò S, Barale C, Tullio F, Geuna S, Cavalot F, Pagliaro P, Penna C. *Front Physiol*. 2018 Jul 10;9:875.

19. Platelets, diabetes and myocardial ischemia/reperfusion injury. **Russo I**, Penna C, Musso T, Popara J, Alloatti G, Cavalot F, Pagliaro P. *Cardiovasc Diabetol*. 2017 May 31;16(1):71.

20. Glucagon-like peptide 1-related peptides increase nitric oxide effects to reduce platelet activation. Barale C, Buracco S, Cavalot F, Frascaroli C, Guerrasio A, **Russo I**. *Thromb Haemost*. 2017 Jun 2;117(6):1115-1128.

21. Postprandial Dysmetabolism and Oxidative Stress in Type 2 Diabetes: Pathogenetic Mechanisms and Therapeutic Strategies. Sottero B, Gargiulo S, **Russo I**, Barale C, Poli G, Cavalot F. *Med Res Rev*. 2015 Sep;35(5):968-1031.

22. A short-term incubation with high glucose impairs VASP phosphorylation at serine 239 in response to the nitric oxide/cGMP pathway in vascular smooth muscle cells: role of oxidative stress.

Russo I, Viretto M, Doronzo G, Barale C, Mattiello L, Anfossi G, Trovati M. *Biomed Res Int.* 2014;2014:328959.

23. Leptin and vascular smooth muscle cells.

Trovati M, Doronzo G, Barale C, Vaccheris C, **Russo I**, Cavalot F. *Curr Pharm Des.* 2014;20(4):625-34.

24. A novel truncated form of eNOS associates with altered vascular function.

Galluccio E, Cassina L, **Russo I**, Gelmini F, Setola E, Rampoldi L, Citterio L, Rossodivita A, Kamami M, Colombo A, Alfieri O, Carini M, Bosi E, Trovati M, Piatti P, Monti LD, Casari G. *Cardiovasc Res.* 2014 Mar 1;101(3):492-502.

25. Oleic acid increases synthesis and secretion of VEGF in rat vascular smooth muscle cells: role of oxidative stress and impairment in obesity.

Doronzo G, Viretto M, Barale C, **Russo I**, Mattiello L, Anfossi G, Trovati M. *Int J Mol Sci.* 2013 Sep 13;14(9):18861-80.