Dott.ssa VICTORIA BARYGINA, Ph.D.

CURRICULUM VITAE – anno 2020

ISCRIZIONE all'albo dei biologi dal 2014, AA_070002

FORMAZIONE

2019-2020 Master interuniversitario di II livello in **Psicobiologia della Nutrizione e del Comportamento Alimentare**, Università di Roma Tor Vergata e Campus Bio-Medico, Roma;

2019 Corso di perfezionamento in "**Scienza dell'alimentazione: nutrigenetica, nutrigenomica, nutraceutica, epigenetica**", Università di Firenze;

2013 Corso di perfezionamento in **alimentazione e nutrizione pediatrica**, Nutrimedifor s.r.l.;

2013 Corso di formazione professionale in **nutrizione umana e dietoterapia**, Nutrimedifor s.r.l.;

2010-2013 Dottorato di ricerca (Ph.D.), Dipartimento di scienze biomediche sperimentali e cliniche, Università di Firenze (studio sul ruolo dello **stress ossidativo nelle patologie dermatologiche** psoriasi e vitiligine);

2007-2010 Dottorato di ricerca, Università Statale di Mosca M.V.Lomonosov e Istituto di chimica bioorganica Shemyakin-Ovchinnikov, Accademia Russa delle Scienze, Mosca, Russia (studio sul **ruolo del mercurio inorganico** sulla funzionalità e mobilità proteica nelle cellule umane);

2002-2007 Laurea in FISIOLOGIA (specializzazione in biologia cellulare e istologia), Università Statale di Mosca M.V.Lomonosov, Mosca, Russia (Studio sul ruolo del mercurio inorganico sullo **stato redox nelle cellule umane**).

ESPERIENZA LAVORATIVA

2014-oggi Biologo-nutrizionista, studio privato, Firenze, Italia.

2014 – 2019 Assegnista di ricerca presso Dipartimento di scienze biomediche sperimentali e cliniche, Università di Firenze.

INOLTRE

- 2 brevetti
- 30 pubblicazioni scientifiche internazionali
- 4 capitoli sui libri di nutrizione, stress ossidativo e dermatologia
- vincitore di premi e grant internazionali
- attività di docenza in nutrizione e biologia cellulare
- attività editoriale per riviste scientifiche internazionali
- organizzazione di convegni scientifici nazionali e internazionali

Pubblicazini

INTERNATIONAL REFEREED PUBLICATIONS

1. **Barygina V,** Becatti M, Lotti T, Prignano F, Taddei N, Fiorillo C. Fibroblasts to Keratinocytes Redox Signaling: The Possible Role of ROS in Psoriatic Plaque Formation. Antioxidants 2019, 8(11), 566.
2. **Barygina V,** Becatti M, Lotti T, Moretti S, Taddei N, Fiorillo C. ROS-challenged keratinocytes as a new model for oxidative stress-mediated skin diseases. J Cell Biochem. 2019 Jan;120(1):28-36.
3. **Barygina V**, Di Nardo V, França K, Tirant M, Valle Y, Lotti T. Functional nutrition as integrated approach in vitiligo management. Dermatol Ther. 2019 Jul;32(4):e12625.
4. Fioranelli M, Sepehri A, Roccia MG, Linda C, Rossi C, Dawodo A, Vojvodic P, Lotti J, **Barygina** V, Vojvodic A, Wollina U, Tirant M, Thuong NV, Lotti T. Clinical Applications of System Regulation Medicine. *Open Access Maced J Med Sci*. 2019;7(18):3053–3060.
5. Fioranelli M, Sepehri A, Roccia MG, Linda C, Rossi C, Dawodo A, Vojvodic P, Lotti J, **Barygina** V, Vojvodic A, Wollina U, Tirant M, Thuong NV, Lotti T. Recovery of Brain in Chick Embryos by Growing Second Heart and Brain. *Open Access Maced J Med Sci*. 2019;7(18):3085–3089.
6. Fioranelli M, Sepehri A, Roccia MG, Rossi C, Vojvodic P, Lotti J, **Barygina** V, Vojvodic A, Wollina U, Tirant M, Thuong NV, Dimitrijevic S, Sijan G, Peric-Hajzler Z, Matovic D, Vlaskovic-Jovicevic T, Lotti T. In Ovo Sexing of Chicken Eggs by Virus Spectroscopy. *Open Access Maced J Med Sci*. 2019;7(18):3106–3109.
7. Fioranelli M, Sepehri A, Roccia MG, Rossi C, Lotti J, Vojvodic P, **Barygina** V, Vojvodic A, Vlaskovic-Jovicevic T, Peric-Hajzler Z, Matovic D, Vojvodic J, Dimitrijevic S, Sijan G, Wollina U, Tirant M, Thuong NV, Lotti T. DNA Waves and Their Applications in Biology. *Open Access Maced J Med Sci*. 2019;7(18):3096–3100.
8. Fioranelli M, Sepehri A, Roccia MG, Rossi C, Lotti J, Vojvodic P, **Barygina** V, Vojvodic A, Vlaskovic-Jovicevic T, Peric-Hajzler Z, Matovic D, Vojvodic J, Dimitrijevic S, Sijan G, Wollina U, Tirant M, Thuong NV, Lotti T. A Mathematical Model for the Signal of Death and Emergence of Mind Out of Brain in Izhikevich Neuron Model. *Open Access Maced J Med Sci*. 2019;7(18):3121– 3126.
9. Fioranelli M, Sepehri A, Roccia MG, Linda C, Rossi C, Vojvodic P, Lotti J, **Barygina** V, Vojvodic A, Wollina U, Tirant M, Thuong NV, Lotti T. A Black Hole at the Center of Earth Plays the Role of the Biggest System of Telecommunication for Connecting DNAs, Dark DNAs and Molecules of Water on 4+N- Dimensional Manifold. *Open Access Maced J Med Sci*. 2019;7(18):3073–3080.
10. Fioranelli M, Sepehri A, Roccia MG, Linda C, Rossi C, Dawodo A, Vojvodic P, Lotti J, **Barygina** V, Vojvodic A, Wollina U, Tirant M, Thuong NV, Lotti T. Formation of Neural Circuits in an Expanded Version of Darwin's Theory: Effects of DNAs in Extra Dimensions and within the Earth's Core on Neural Networks. *Open Access Maced J Med Sci*. 2019;7(18):3113–3117.
11. Becatti M, Urban ML, Taurisano G, Mannucci A, **Barygina V**, Pescitelli L, Prignano F, Silvestri E, Taddei N, Lotti T, Fiorillo C, Emmi G. Secukinumab reduces plasma oxidative stress in psoriasis: A case-based experience. Dermatol Ther. 2018 Sep;31(5):e12675.
12. Addabbo, T., Fort, A., Kapita, P., **Barygina V.**, (...), Fiorillo, C., Taddei, N. A Compact System for Blood Impedance Measurements for ROS Evaluation. 2018 MeMeA, IEEE International Symposium on Medical Measurements and Applications, Proceedings.
13. **Barygina V,** Becatti M, Lotti T, Taddei N, Fiorillo C. Commentary to the review article: Subedi S, Yu Q, Chen Z, Shi Y. Management of pediatric psoriasis with acitretin: A review. Dermatol Ther. 2018 Jan;31(1).
14. Nardo VD, Gianfaldoni S, Tchernev G, Wollina U, **Barygina V**, Lotti J, Daaboul F, Lotti T. Use of Curcumin in Psoriasis. Open Access Maced J Med Sci. 2018 Jan 21;6(1):218-220.
15. **Barygina V**, Becatti M, Mannucci A, Emmi G, Prisco D, Lotti T, Fiorillo C, Taddei N. Sirt1 Protects against Oxidative Stress-Induced Apoptosis in Fibroblasts from Psoriatic Patients: A New Insight into the Pathogenetic Mechanisms of Psoriasis. Int J Mol Sci. 2018 May 25;19(6). pii: E1572.
16. Becatti M, Fucci R, Mannucci A, **Barygina V,** et al. A Biochemical Approach to Detect Oxidative Stress in Infertile Women Undergoing Assisted Reproductive Technology Procedures. Int J Mol Sci. 2018 Feb 16;19(2). pii: E592.
17. Becatti M, Mannucci A, **Barygina V**, et al. Redox status alterations during the competitive season in élite soccer players: focus on peripheral leukocyte-derived ROS. Intern Emerg Med. 2017 Sep;12(6):777-788.

18. Becatti M, **Barygina V**, Emmi G, Silvestri E, Taddei N, Lotti T, Fiorillo C. SIRT1 activity is decreased in lesional psoriatic skin. Intern Emerg Med. 2016 Sep;11(6):891-3.
19. **Barygina V**, Becatti M, Lotti T, Taddei N, Fiorillo C. Low dose cytokines reduce oxidative stress in primary lesional fibroblasts obtained from psoriatic patients. J Dermatol Sci. 2016 Sep;83(3):242-4.
20. **Barygina V**, Becatti M, Mannucci A, et al. Rapid communication: a vegetable oil extract restores redox status in fibroblasts from psoriatic patients. J Biol Regul Homeost Agents. 2016 Apr-Jun;30(2 Suppl 3):129-31.
21. **Barygina V**, Becatti M, Lotti T, Moretti S, Taddei N, Fiorillo C. Treatment with low-dose cytokines reduces oxidative-mediated injury in perilesional keratinocytes from vitiligo skin. J Dermatol Sci. 2015 Aug;79(2):16370.
22. Becatti M, Fiorillo C, **Barygina V**, et al. SIRT1 regulates MAPK pathways in vitiligo skin: insight into the molecular pathways of cell survival. J Cell Mol Med. 2014 Mar;18(3):514-29.
23. **Barygina VV,** Becatti M, Soldi G, et al. Altered redox status in the blood of psoriatic patients: involvement of NADPH oxidase and role of anti-TNF-α therapy. Redox Rep. 2013;18(3):100-6.
24. Kapsokalyvas, D., **Barygina, V.,** Cicchi, R., Fiorillo, C., Pavone, F.S. Evaluation of the oxidative stress of psoriatic fibroblasts based on Spectral Two-photon Fluorescence Lifetime imaging. 2013. Progress in Biomedical Optics and Imaging - Proceedings of SPIE.
25. **Barygina VV,** Veiko VP, Zatsepina OV. Biochemistry (Mosc). Analysis of nucleolar protein fibrillarin mobility and functional state in living HeLa cells. 2010 Aug;75(8):979-88.PMID: 21073418

NATIONAL REFEREED PUBLICATIONS

26. **Barygina VV**, Mironova AA, Zatsepina OV. Parameters which affect the estimation of protein mobility by method FRAP in living cells on the example of protein fibrillarin. Tsitologiia. 2012;54(1):17-24. Russian. PMID: 22567896
27. **Barygina, V.V.,** Mironova, A.A., Zatsepina, O.V.Parameters that affect estimation of nucleolar proteins' mobility in living cells by the FRAP method with the example of protein fibrillarin. 2012. Cell and Tissue Biology.
28. **Barygina, V.V.,** Aref'Eva, A.S., Zatsepina, O.V. The role of mercury in the processes of vital activity of the human and mammalian organisms. 2010. Russian Journal of General Chemistry.
29. Chissov V.I., Tychinskij V.P., Volchenko N.N., Reshetov I.V., Kretushev A.V., Vyshenskaya T.V., Slavnova E.N., **Barygina V.V**., Klemeshov I.V. The coherent phase microscopy of the tumors on the breast cancer model. (2006) Russian Journal of Oncology, 2, 11-15.
30. Arefieva AS, **Barygina V.V.,** Zatsepina O.V. Current view on the role of mercury on cellullar and organismal level. (2010) Human ecology, 8: 35-41. [review in russian]
31. **Barygina V.V.,** Arefieva A.S, Zatsepina O.V. The role of the mercury in the life- sustaining processes in human and mammal organisms. (2009) Ecological chemistry, 18(4): 189-201. [review in russian]

BOOK CHAPTERS

1. Lotti J., **Barygina** V., Tirant M. "Integrated Therapies" in Textbook and Atlas of Dermatology; Eds M.Tirant, T.Lotti D.Parsad. Tree Life Media, Maharashtra, India; 2018.
2. **Barygina** V. V. "Introduction: historical background of the redox system in dermatology" in "Natural Antioxidants in General Medicine and in Dermatology"; Eds T. Lotti, J. Hercogova, D. Turini, L. Tognetti, V. Barygina, Y. Valle, J. Hercogova, D. Turini, L. Tognetti, V. Barygina, Y. Valle. World Health Academy, Zurich, Switzerland; 2013.
3. **Barygina** V. V. Chapter "The redox System: selected concepts in general medicine and in dermatology" in "Natural Antioxidants in General Medicine and in Dermatology"; Eds T. Lotti, J. Hercogova, D. Turini, L. Tognetti, V. Barygina, Y. Valle, J. Hercogova, D. Turini, L. Tognetti, V. **Barygina**, Y. Valle. World Health Academy, Zurich, Switzerland; 2013.
4. Fiorillo C., **Barygina** V. "Vitiligo: biochemical clues" in "Vitiligo: What's new, What's true"; Eds T. Lotti, J. Hercogová, R.A. Schwartz. World Health Academy, Zurich, Switzerland / Vitiligo Research Foundation, New York, USA; 2013.