

## REFERENCES

1. Cremonini E, Da Silva LME, Lanzi CR, Marino M, Iglesias DE, Oteiza PI. Anthocyanins and their metabolites promote white adipose tissue beiging by regulating mitochondrial thermogenesis and dynamics. *Biochem Pharmacol.* 2024;222:116069. doi:10.1016/j.bcp.2024.116069
2. Solverson P. Anthocyanin Bioactivity in Obesity and Diabetes: The Essential Role of Glucose Transporters in the Gut and Periphery. *Cells.* 2020;9(11):2515. Published 2020 Nov 20. doi:10.3390/cells9112515
3. Mao GX, Xu XG, Wang SY, et al. Salidroside Delays Cellular Senescence by Stimulating Mitochondrial Biogenesis Partly through a miR-22-SIRT-1 Pathway. *Oxid Med Cell Longev.* 2019;2019:5276096. Published 2019 Sep 12. doi:10.1155/2019/5276096
4. Abidov M, Crendal F, Grachev S, Seifulla R, Ziegenfuss T. Effect of extracts from *Rhodiola rosea* and *Rhodiola crenulata* (Crassulaceae) roots on ATP content in mitochondria of skeletal muscles. *Bull Exp Biol Med.* 2003;136(6):585-587. doi:10.1023/B:BEBM.0000020211.24779.15
5. Nishida Y, Nawaz A, Kado T, et al. Astaxanthin stimulates mitochondrial biogenesis in insulin resistant muscle via activation of AMPK pathway. *J Cachexia Sarcopenia Muscle.* 2020;11(1):241-258. doi:10.1002/jcsm.12530
6. Nishida Y, Nawaz A, Hecht K, Tobe K. Astaxanthin as a Novel Mitochondrial Regulator: A New Aspect of Carotenoids, beyond Antioxidants. *Nutrients.* 2021;14(1):107. Published 2021 Dec 27. doi:10.3390/nu14010107
7. Yamamoto H, Morino K, Mengistu L, et al. Amla Enhances Mitochondrial Spare Respiratory Capacity by Increasing Mitochondrial Biogenesis and Antioxidant Systems in a Murine Skeletal Muscle Cell Line. *Oxid Med Cell Longev.* 2016;2016:1735841. doi:10.1155/2016/1735841
8. Nazish I, Ansari SH. *Embllica officinalis* – Anti-obesity activity. *J Complement Integr Med.* 2017;15(2). doi:10.1515/jcim-2016-0051. Published 2017 Dec 5.
9. Taub PR, Ramirez-Sanchez I, Ciaraldi TP, et al. Alterations in skeletal muscle indicators of mitochondrial structure and biogenesis in patients with type 2 diabetes and heart failure: effects of epicatechin rich cocoa. *Clin Transl Sci.* 2012;5(1):43-47. doi:10.1111/j.1752-8062.2011.00357.x
10. Daussin FN, Heyman E, Burelle Y. Effects of (-)epicatechin on mitochondria. *Nutr Rev.* 2021;79(1):25-41. doi:10.1093/nutrit/nuaa094
11. Kim JS, Yi HK. Schisandrin C enhances mitochondrial biogenesis and autophagy in C2C12 skeletal muscle cells: potential involvement of antioxidative mechanisms. *Naunyn Schmiedebergs Arch Pharmacol.* 2018;391(2):197-206. doi:10.1007/s00210-017-1449-1

12. Kopustinskiene DM, Bernatoniene J. Antioxidant Effects of Schisandra chinensis Fruits and Their Active Constituents. *Antioxidants (Basel)*. 2021;10(4):620. Published 2021 Apr 18. doi:10.3390/antiox10040620