

Düsseldorf, 04.05.2023

Dear members of the E-mit ad interim board,

With this letter and the accompany Curriculum Vitae, I am submitting my nomination for one of the six board members of the European Society for Mitochondrial Research and Medicine.

As evident from my track record, I have a long-standing experience in studying the role of mitochondria and mitochondrial stress responses in different pathophysiological processes, ranging from inborn mitochondriopathies to aging and age-associated (neuro)pathologies. My lab primarily (but not only) uses the nematode *C. elegans* as an *in vivo* multicellular model organism for genetic and interventions studies. We pioneered the concept of "mitochondrial hormesis", which we have systematically characterized at biochemical, cellular and behavioral level, and which we are exploiting to identify health modifiers. This knowledge are/will be applied in my research to investigate age- and genetic-associated neuromuscular pathologies in *C. elegans* and for translational studies in mammalian systems.

With my background, expertise and international visibility, I my therefore confident that I can constructively contribute to the different activities of the E-mit Executive Board and to the growth of the society.

Sincerely,

Nataschia Ventura



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