

Curriculum Vitae

Alessandro Magini obtained his Master's Degree in Biology (110/110 cum laude) from the University of Perugia in 2002. In 2007, he earned his PhD in Biology and Molecular Biotechnology from the same University.

His research activity has focused on several topics: i) generation of TSC1 knock-out neural stem/progenitor cells (NSPCs) as a model of CNS-restricted Tuberous Sclerosis Complex to elucidate the molecular mechanisms leading to the development of Subependymal Giant Cell Astrocytoma; ii) intracerebroventricular administration of mTOR inhibitors for the treatment of neurodegenerative, neuroinflammatory, and neuro-oncological diseases; iii) expression, targeting, and biological role of glycohydrolases involved in glycosphingolipid metabolism; iv) the role of the autophagy–lysosome pathway in lysosomal storage disorders and Alzheimer's disease; v) biomedical applications of nanostructured materials. He has taught Biological Chemistry for the Bachelor's Degree in Chemistry at the University of Perugia, Department of Chemistry, Biology and Biotechnology. He also serves as a referee for international peer-reviewed journals in the fields of Biochemistry and Molecular Biology. As of 2024, he is the author or co-author of more than 40 publications in international peer-reviewed scientific journals and holds 2 patents.