

Publications where I am first/last (**preeminent role**) are in blue:

- 1 *Usp14 inhibition enhances Parkin-independent mitophagy in iNeurons* (2024). Greta Bernardo, Miguel A Prado, Dashtmian R.A., Mariavittoria Favaro, Sofia Mauri, Alice Borsetto, Elena Marchesan, Joao A Paulo, Steve P Gygi, Daniel J Finley, **Elena Ziviani**. [Pharmacological Research](https://doi.org/10.1016/j.phrs.2024.107484). <https://doi.org/10.1016/j.phrs.2024.107484> IN PRESS
- 2 *Efficient Prohibitin 2 exposure during mitophagy depends on Voltage-dependent anion-selective channel protein 1* (2024). Moumita Roy, Sumangal Nandy, Elena Marchesan, Chayan Banerjee, Rupsha Mondal, Federico Caicci, **Elena Ziviani**, Joy Chakraborty. [Autophagy](#). IN PRESS
- 3 *Activation of Ca<sup>2+</sup> phosphatase Calcineurin regulates Parkin translocation to mitochondria and mitophagy in flies* (2024). Elena Marchesan, Alice Nardin, Sofia Mauri, Greta Bernardo, Vivek Chander, Simone Di Paola, Monica Chinellato, Sophia von Stockum, Joy Chakraborty, Stephanie Herkenne, Valentina Basso, Emilie Schrepfer, Oriano Marin, Laura Cendron, Diego L Medina, Luca Scorrano, **Elena Ziviani**. [Cell Death & Differentiation](#) 31 (2), 217-238
- 4 *Usp14 down-regulation corrects sleep and circadian dysfunction of a Drosophila model of Parkinson's disease* (2024). Mariavittoria Favaro, Sofia Mauri, Greta Bernardo, Mauro A Zordan, Gabriella M Mazzotta, **Elena Ziviani**. [Frontiers in Neuroscience](#) 18, 1410139
- 5 *Human frataxin, the Friedreich ataxia deficient protein, interacts with mitochondrial respiratory chain* (2023). Davide Doni, Federica Cavion, Marco Bortolus, Elisa Baschiera, Silvia Muccioli, Giulia Tombesi, Federica d'Ettore, Daniele Ottaviani, Elena Marchesan, Luigi Leanza, Elisa Greggio, **Elena Ziviani**, Antonella Russo, Milena Bellin, Geppo Sartori, Donatella Carbonera, Leonardo Salvati, Paola Costantini. [Cell Death & Disease](#) 14 (12), 805
- 6 *USP8 Down-Regulation Promotes Parkin-Independent Mitophagy in the Drosophila Brain and in Human Neurons* (2023). Sofia Mauri, Greta Bernardo, Aitor Martinez, Mariavittoria Favaro, Marta Trevisan, Gael Cobraiville, Marianne Fillet, Federico Caicci, Alexander J Whitworth, **Elena Ziviani**. [Cells](#) 12 (8), 1143
- 7 *LRRK2 kinase activity regulates GCase level and enzymatic activity differently depending on cell type in Parkinson's disease* (2022). Kedariti, Emanuele Frattini, Pascale Baden, Susanna Cogo, Laura Civiero, **Elena Ziviani**, Gianluca Zilio, Federico Bertoli, Massimo Aureli, Alice Kaganovich, Mark R Cookson, Leonidas Stefanis, Matthew Surface, Michela Deleidi, Alessio Di Fonzo, Roy N Alcalay, Hardy Rideout, Elisa Greggio, Nicoletta Plotegher. [NPJ Parkinson's Disease](#) 8 (1), 92
- 8 *Retinoic acid-induced 1 gene haploinsufficiency alters lipid metabolism and causes autophagy defects in Smith-Magenis syndrome* (2022). Elisa Maria Turco, Angela Maria Giada Giovenale, Laura Sireno, Martina Mazzoni, Alessandra Cammareri, Caterina Marchioretti, Laura Goracci, Alessandra Di Veroli, Elena Marchesan, Daniel D'Andrea, Antonella Falconieri, Barbara Torres, Laura Bernardini, Maria Chiara Magnifico, Alessio Paone, Serena Rinaldo, Matteo Della Monica, Stefano D'Arrigo, Diana Postorivo, Anna Maria Nardone, Giuseppe Zampino, Roberta Onesimo, Chiara Leoni, Federico Caicci, Domenico Raimondo, Elena Binda, Laura Trobiani, Antonella De Jaco, Ada Maria Tata, Daniela Ferrari, Francesca Cutruzzola, Gianluigi Mazzoccoli, **Elena Ziviani**, Maria Pennuto, Angelo Luigi Vescovi, Jessica Rosati. [Cell Death & Disease](#) 13 (11), 981
- 9 *Mitochondrial autophagy in the sleeping brain* (2022). Sofia Mauri, Mariavittoria Favaro, Greta Bernardo, Gabriella M Mazzotta, **Elena Ziviani**. [Frontiers in Cell and Developmental Biology](#) 10, 956394
- 10 *Boosting mitochondrial health to counteract neurodegeneration* (2022). Johannes Burtscher, Mario Romani, Greta Bernardo, Traian Popa, **Elena Ziviani**, Friedhelm C Hummel, Vincenzo Sorrentino, Gregoire P Millet. [Progress in Neurobiology](#) 215, 102289

- 11 *Loss of Fis1 impairs proteostasis during skeletal muscle aging in Drosophila* (2021). Tai-Ting Lee, Po-Lin Chen, Matthew P Su, Jian-Chiuan Li, Yi-Wen Chang, Rei-Wen Liu, Hsueh-Fen Juan, Jinn-Moon Yang, Shih-Peng Chan, Yu-Chen Tsai, Sophia von Stockum, **Elena Ziviani**, Azusa Kamikouchi, Horng-Dar Wang, Chun-Hong Chen. [Aging Cell 20 \(6\), e13379](#)
- 12 *Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition)* (2021). DJ Klionsky, AK Abdel-Aziz, S Abdelfatah, M Abdellatif, A Abdoli, S Abel, ...**Elena Ziviani**...Chun-Kit Tong. [Autophagy 17 \(1\), 1-382](#)
- 13 *A new target for an old DUB: UCH-L1 regulates mitofusin-2 levels, altering mitochondrial morphology, function and calcium uptake* (2020). Fernanda M Cerqueira, Sophia von Stockum, Marta Giacomello, Inna Goliand, Pamela Kakimoto, Elena Marchesan, Diego De Stefani, Alicia J Kowaltowski, **Elena Ziviani**, Orian S Shirihai. [Redox biology 37, 101676](#)
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- 15 *Deubiquitinating enzymes in Parkinson's disease* (2020). Joy Chakraborty, **Elena Ziviani**. [Frontiers in Physiology 11, 535](#)
- 16 *Developmental and tumor angiogenesis requires the mitochondria-shaping protein Opal* (2020). Stéphanie Herkenne, Olivier Ek, Margherita Zamberlan, Anna Pellattiero, Maya Chergova, Iñigo Chivite, Eliška Novotná, Giovanni Rigoni, Tiago Branco Fonseca, Dijana Samardzic, Andrielly Agnellini, Camilla Bean, Giulietta Di Benedetto, Natascia Tiso, Francesco Argenton, Antonella Viola, Maria Eugenia Soriano, Marta Giacomello, **Elena Ziviani**, Gabriele Sales, Marc Claret, Mariona Graupera, Luca Scorrano. [Cell metabolism 31 \(5\), 987-1003. e8](#)
- 17 *A trio has turned into a quartet: DJ-1 interacts with the IP3R-Grp75-VDAC complex to control ER-mitochondria interaction* (2020). Valentina Basso, Elena Marchesan, **Elena Ziviani**. [Cell Calcium 87, 102186](#)
- 18 *Comprehensive genetic characterization of mitochondrial Ca<sup>2+</sup> uniporter components reveals their different physiological requirements in vivo* (2019). Roberta Tufi, Thomas P Gleeson, Sophia von Stockum, Victoria L Hewitt, Juliette J Lee, Ana Terriente-Felix, Alvaro Sanchez-Martinez, **Elena Ziviani**, Alexander J Whitworth. [Cell reports 27 \(5\), 1541-1550. e5](#)
- 19 *Alpha-synuclein preserves mitochondrial fusion and function in neuronal cells* (2019). Gaia Faustini, Elena Marchesan, Laura Zonta, Federica Bono, Emanuela Bottani, Francesca Longhena, **Elena Ziviani**, Alessandra Valerio, Arianna Bellucci. [Oxidative medicine and cellular longevity 2019 \(1\), 4246350](#)
- 20 *Inhibition of the deubiquitinase USP8 corrects a Drosophila PINK1 model of mitochondria dysfunction* (2019). Sophia von Stockum, Alvaro Sanchez-Martinez, Samantha Corrà, Joy Chakraborty, Elena Marchesan, Lisa Locatello, Caterina Da Rè, Paola Cusumano, Federico Caicci, Vanni Ferrari, Rodolfo Costa, Luigi Bubacco, Maria Berica Rasotto, Ildiko Szabo, Alexander J Whitworth, Luca Scorrano, **Elena Ziviani**. [Life Science Alliance 2 \(2\)](#)
- 21 *Regulation of ER-mitochondria contacts by Parkin via Mfn2* (2018). Valentina Basso, Elena Marchesan, Caterina Peggion, Joy Chakraborty, Sophia von Stockum, Marta Giacomello, Denis Ottolini, Valentina Debattisti, Federico Caicci, Elisabetta Tasca, Valentina Pegoraro, Corrado Angelini, Angelo Antonini, Alessandro Bertoli, Marisa Brini, **Elena Ziviani**. [Pharmacological Research 138, 43-56](#)

- 22 *USP14 inhibition corrects an in vivo model of impaired mitophagy* (2018). Joy Chakraborty, Sophia von Stockum, Elena Marchesan, Federico Caicci, Vanni Ferrari, Aleksandar Rakovic, Christine Klein, Angelo Antonini, Luigi Bubacco, **Elena Ziviani**. [EMBO Molecular Medicine 10 \(11\), e9014](#)
- 23 *Mitochondrial quality control beyond PINK1/Parkin* (2018). Sofia von Stockum, Elena Marchesan, **Elena Ziviani**. [Oncotarget 9 \(16\), 12550](#)
- 24 *Post translational modification of Parkin* (2017). Joy Chakraborty, Valentina Basso, **Elena Ziviani**. [Biology direct 12, 1-11](#)
- 25 *Cell biology: The organelle replication connection* (2016). **Elena Ziviani**, Luca Scorrano. [Nature 538 \(7625\), 326-327](#)
- 26 *Mitochondrial dynamics and mitophagy in Parkinson's disease: A fly point of view* (2016). Sofia Von Stockum, Alice Nardin, Emilie Schrepfer, **Elena Ziviani**. [Neurobiology of disease 90, 58-67](#)
- 27 *Counteracting PINK/Parkin deficiency in the activation of mitophagy: a potential therapeutic intervention for Parkinson's disease* (2016). Alice Nardin, Emilie Schrepfer, **Elena Ziviani**. [Current neuropharmacology 14 \(3\), 250-259](#)
- 28 *Parkinsonian toxin-induced oxidative stress inhibits basal autophagy in astrocytes via NQO2/quinone oxidoreductase 2: Implications for neuroprotection* (2015). Elzbieta Janda, Antonella Lascala, Cristina Carresi, Maddalena Parafati, Serafina Aprigliano, Vanessa Russo, Claudia Savoia, **Elena Ziviani**, Vincenzo Musolino, Federica Morani, Ciro Isidoro, Vincenzo Mollace. [Autophagy 11 \(7\), 1063-1080](#)
- 29 *Genome-wide RNAi screen identifies the Parkinson disease GWAS risk locus SREBF1 as a regulator of mitophagy* (2014). Rachael M Ivatt, Alvaro Sanchez-Martinez, Vinay K Godena, Stephen Brown, **Elena Ziviani**, Alexander J Whitworth. [Proceedings of the National Academy of Sciences 111 \(23\), 8494-8499](#)
- 30 *Reduction of endoplasmic reticulum stress attenuates the defects caused by Drosophila mitofusins depletion* (2014). Valentina Debattisti, Diana Pendin, **Elena Ziviani**, Andrea Daga, Luca Scorrano. [Journal of Cell Biology 204 \(3\), 303-312](#)
- 31 *In epilepsy, BAD is not really bad* (2012). **Elena Ziviani**, Luca Scorrano. [Neuron 74 \(4\), 600-602](#)
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- 34 *Drosophila parkin requires PINK1 for mitochondrial translocation and ubiquitinates mitofusins* (2010). **Elena Ziviani**, Ran N Tao, Alexander J Whitworth. [Proceedings of the National Academy of Sciences 107 \(11\), 5018-5023](#)
- 35 *Drosophila Models of Parkinson's Disease* (2010). **Elena Ziviani**, Alexander J Whitworth. [Encyclopaedia of Movement Disorders, Three-Volume Set, pp. VI-338–VI-340](#)
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- 37 *Rapamycin activation of 4E-BP prevents parkinsonian dopaminergic neuron loss* (2009). Luke S Tain, Heather Mortiboys, Ran N Tao, **Elena Ziviani**, Oliver Bandmann, Alexander J Whitworth. Nature neuroscience 12 (9), 1129-1135
- 38 *The Plasma Membrane Na<sup>+</sup>/Ca<sup>2+</sup> Exchanger Is Cleaved by Distinct Protease Families in Neuronal Cell Death* (2007). Daniele Bano, E Munarriz, HL Chen, **Elena Ziviani**, G Lippi, KW Young, P Nicotera. Annals of the New York Academy of Sciences 1099 (1), 451-455