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**Record 1 of 1****Title:** siRNA Blocking of Mammalian Target of Rapamycin (mTOR) Attenuates Pathology in Annonacin-Induced Tauopathy in Mice**Author(s):** Salama, M (Salama, Mohamed); El-Desouky, S (El-Desouky, Sara); Alsayed, A (Alsayed, Aziza); El-Hussiny, M (El-Hussiny, Mahmoud); Magdy, K (Magdy, Khaled); Fekry, E (Fekry, Emad); Shabka, O (Shabka, Osama); El-Khodery, SA (El-Khodery, Sabry A.); Youssef, MA (Youssef, Mohamed A.); Sobh, M (Sobh, Mohamed); Mohamed, W (Mohamed, Wael)**Source:** NEUROTOXICITY RESEARCH **Volume:** 35 **Issue:** 4 **Pages:** 987-992 **DOI:** 10.1007/s12640-018-9974-3 **Published:** MAY 2019**Times Cited in Web of Science Core Collection:** 0**Total Times Cited:** 0**Usage Count (Last 180 days):** 0**Usage Count (Since 2013):** 2**Cited Reference Count:** 23**Abstract:** Tauopathy is a pathological hallmark of many neurodegenerative diseases. It is characterized by abnormal aggregates of pathological phosphotau and somatodendritic redistribution. One suggested strategy for treating tauopathy is to stimulate autophagy, hence, getting rid of these pathological protein aggregates. One key controller of autophagy is mTOR. Since stimulation of mTOR leads to inhibition of autophagy, inhibitors of mTOR will cause stimulation of autophagy process. In this report, tauopathy was induced in mice using annonacin. Blocking of mTOR was achieved through stereotaxic injection of siRNA against mTOR. The behavioral and immunohistochemical evaluation revealed the development of tauopathy model as proven by deterioration of behavioral performance in open field test and significant tau aggregates in annonacin-treated mice. Blocking of mTOR revealed significant clearance of tau aggregates in the injected side; however, tau expression was not affected by mTOR blockage.**Accession Number:** WOS:000464857700017**PubMed ID:** 30362086**Language:** English**Document Type:** Article**Author Keywords:** Tauopathy; mTOR; siRNA; Neurodegeneration; Autophagy**KeyWords Plus:** MOUSE MODEL; TAU; AUTOPHAGY; PHOSPHORYLATION**Addresses:** [Salama, Mohamed; El-Desouky, Sara; Alsayed, Aziza; El-Hussiny, Mahmoud; Magdy, Khaled] Mansoura Univ, Fac Med, MERC, Elgomhourya St, Mansoura 36551, Egypt.

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