Neurodegeneration, Parkinson’s disease, dementia

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Background

Projects and techniques

• Regulation of α-synuclein levels – gene expression, catabolism. Cloning, cell culture, qPCR, immunoblotting, fluorescense microscopy

• Induction of aggregation and generation of disease specific strains. Protein chemistry, chromatography, cell culture, fluorescense microscopy

• Calcium dysregulation and its signaling during cellular α-synuclein aggregation. Calcium imaging and in vivo microscopy, RNASeq, qPCR, gene silencing

• Cellular excretion of prion-like aggregates. Cloning, cell culture, qPCR, immunoblotting, microscopy, proteomics

• Mechanisms involved in spreading of α-synuclein pathology in vitro and in vivo. Viral transduction, cell & tissue culture, in vivo microscopy, qPCR, immunoblotting, immunohisto- and cytochemistry, live cell microscopy, calcium imaging

• Basis for symptomatology in models - Anxiety, movement, sleep dysfunctions, death. Cell culture, immunostaining, microscopy, animal behavior

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