

Molecular Mechanisms in Tissue Degeneration and Regeneration

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LECTURE

Patient-specific and isogenic iPSC lines for screen and therapy for Parkinson's disease.

Dr. XIANMIN ZENG

She is a leading stem cell biologist with expertise in neural development of human pluripotent stem cells. One of her research focuses is to study neural/neuronal development in human and to model neurodegenerative diseases, with a focus on Parkinson's disease, using patient-specific and engineered isogenic iPSC lines. She has developed scalable processes of generating functional neural cells for cell replacement therapy and drug screening.

She received her PhD in Molecular Biology from the Technical University of Denmark in 2000 and had her postdoctoral training in neurobiology at the National Institutes of Health in 2000-2005. She joined the faculty of the Buck Institute in 2005 where she builds the Institute's Stem Cell Program. She received early tenure in 2009 and has been the Director of North Bay Shared Research Laboratory for Stem Cell and Aging at the Institute since 2008.