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### The fate of proteins and the involvement in cell death and aging

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Proteins are the major structural and functional players in all organisms. The synthesis and degradation of proteins directly guide the growth, differentiation and death of the cell. During the metabolism pathways of proteins, the aggregation is a special feature of proteins and highly involved in cell death. It has been debated that protein aggregation might be beneficial in aged cells to avoid compromising the protein

quality and quantity control meanwhile some evidence indicated the protein aggregation may impair the normal cellular metabolic process. This presentation will discuss the impact of protein synthesis, aggregation and degradation in cell death and their involvement in aging study.

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