

UMM Grand Rounds 2024

Universitätsmedizin Mannheim, Lecture hall 1
presentations in English

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Novel metabolic targets to treat fibrotic disease

John W. Elrod

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Dr. John Elrod is the founding Director of the Aging + Cardiovascular Discovery Center in the Lewis Katz School of Medicine at Temple University. He leads a multidisciplinary research lab working in the fields of mitochondrial biology, metabolism, fibrosis, and cell death in the context of cardiac injury, heart failure, and neurodegeneration. The lab has made several discoveries in the field of mitochondrial biology, including defining the signals in the heart that match energy production with the amount of work the heart is performing and how this can turn maladaptive and trigger cell death. Characterization of the pathways regulating mitochondrial calcium transport has resulted in numerous high-impact publications.

Other breakthroughs include defining how changes in metabolism are directly linked to epigenetic regulation of cell fate in the context of fibrosis and putting forth a new hypothesis of Alzheimer's disease pathogenesis, which is being interrogated for new therapies.

Host: Jörg Heineke

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