Advanced Undergraduate Seminars 2013-2014

Fall 2013

7.341 Unraveling the Molecular Mechanisms of Aging and Age-Related Diseases. Instructors: Abhirup Das (abhirup@mit.edu, 3-

7.342 Cell-material Crosstalk: Engineering Cell-

production of reactive oxygen species (ROS), a byproduct of mitochondrial respiration, which can lead to damage of DNA, RNA, proteins and lipids. Furthermore, mutations in mitochondrial DNA have been associated with promoting tumor growth and causing defects in apoptosis, also known as "programmed cell death," in cancer, thereby allowing cells

as the benefits