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Title of PhD research topic

Identification and genetic characterisation of new senescence and cell death related mechanisms during salivary gland disruption in Drosophila
 The contribution of chloroplast degradation mechanisms to the cell level recycling of Fe and Mn from the photosynthetic apparatus
 The contribution of the nitric oxide signal to the recycling of Fe and Mn from the photosynthetic apparatus
 The activation and regulation of the complement system

 Analysis of lysosomal degradation pathways
 Genetic and functional analysis of genes involved in symbiotic nitrogen fixation

 Molecular mechanisms of genome metabolism and cellular stress response
 The effect of keeping conditions and anthropomorph on dog behaviour
 Modelling and data analysis in HIV research
 Investigating the effects of personalised antisense oligonucleotide treatments in an in vitro 2D and 3D stem cell-based neural model
 Molecular mechanisms of neuronal DNA repair
 Identifying small molecule inhibitors against human exonucleases to aid existing therapies in oncology.
 Function of translesion polymerases in post-replicative DNA repair.
 The role of reputation and gossip in the origin and maintenance of human cooperation

 Theoretical models of honest signalling

 Honesty and cheating in human mate choice systems
 Investigation of the tomato SII DM1 histone acetyltransferase gene
 Uncovering how tumor malignancy affects cellular metabolism
 Dynamics of bumblebee populations in neonicotinoid-treated agricultural landscapes
 Comparative neurobiological characterization of paradise fish and zebrafish

 Modeling pseudouridylation-related diseases in zebrafish
 Creation and characterization of a zebrafish models of human diseases resulting from mutations in RecQ orthologs

 Eco-evolutionary modeling of microbial cooperations and the origin of eukaryotes
 Theoretical models of cultural evolution

 Modeling black queen and horizontal gene transfer mechanisms in microbial communities

 The effect of climate change on global conservation of shorebirds
 Gene expression-based CRISPR epigenome perturbation screens to understand basic mechanisms in cellular plasticity
 Developing drug targets using targeted protein degradation approaches
 Application of DNA fragmentation and epigenetic patterns in cancer biomarker research
 Complex machine learning and artificial intelligence in cancer research