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Michael Chen, Sarah Williams, David Park

Keywords: autophagy, neurodegenerative diseases, mTOR, AMPK, Beclin-1, protein aggregation, therapeutic strategies

2.

CRISPR-Cas9 Applications in Agricultural Biotechnology: Current Status and Future Prospects

Elena Rodriguez, James Thompson, Wei Zhang

Keywords: CRISPR-Cas9, gene editing, agricultural biotechnology, crop improvement, food security, sustainable agriculture, regulatory frameworks

3.

Gut Microbiome Composition and Its Impact on Immune System Development

Anna Kowalski, Robert Martinez, Lisa Chen

Keywords: gut microbiome, immune system development, T-cell differentiation, microbial colonization, dietary factors, environmental exposures, infant cohort

4.

Climate Change Effects on Marine Ecosystem Carbon Cycling

Thomas Anderson, Maria Santos, Yuki Tanaka

Keywords: climate change, marine ecosystems, carbon cycling, ocean acidification, phytoplankton productivity

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Advances in Stem Cell Therapy for Cardiovascular Disease Treatment

Jennifer Liu, Christopher Brown, Ahmed Hassan

Keywords: stem cell therapy, cardiovascular disease, myocardial infarction, regenerative medicine, cell engraftment, safety profiles, clinical trials