The faculty of Biotechnology and Food Engineering

Seminar

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Zebrafish models of cancer: the state of the art and view to the future

Abstract

Cancers is one of the most common diseases in the world with a high degree of mortality. Recently, zebrafish studies have demonstrated that multiple oncogenes and tumor suppressor genes can be regulated through genetic or epigenetic alterations. However, in order to further investigate the correlation of these genes between diseases, to develop the transgenic zebrafish is quite critical. Zebrafish research has also revealed that the activation of carcinogenesis-associated signal pathways plays an important role in cancers. The biology of cancer, tumors caused by carcinogens, and the morphological patterns of tumors have been found to be highly similar between zebrafish and humans. Therefore, the zebrafish has become an important animal model for translational medical research. Zebrafish models have been developed to elucidate the characteristics of human gastrointestinal diseases and myeloid malignancies. This excellent zebrafish models can provide novel insights into the pathogenesis of gastrointestinal diseases and myeloid malignancies and help facilitate the evaluation of novel anti-tumor drugs.

Wednesday, 17.4.19, 14:00 – 15:00, Room 300

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