

RESEARCH GROUP

Molecular control of cellular signaling

PRINCIPAL INVESTIGATOR JUNIOR

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RESEARCH FOCUS

The research theme is Molecular control of signaling in cancer associated with aging. To study signal transduction molecules, scientific interests are in understanding the molecular signalling machinery controlling fundamental cellular processes like cell death/survival, migration and cellular differentiation. and this project specifically added mitochondria and aging. With this in view, comprehensive analysis of these MAPK signaling will provide important insights into the molecular mechanisms involved in the development of cancer. Understand MAPK signaling, our group should be able to develop innovative therapeutic concepts that will enable us to attack tumor cell.

RESEARCH OBJECTIVES

- ▲ The RAF/MEK/ERK pathways controlled by protein kinases are involved in the initiation and progression cancer forms
- ▲ Understanding of cancer associated with aging there should be developed new therapeutical options for tumorigenesis
- ▲ Biomarker strategy development and implementation for oncology clinical trials



● CLINICAL RESEARCH



TRANSLATIONAL RESEARCH



BASIC RESEARCH



CORE FACILITIES

Development of new solutions for prevention, diagnostics and treatment of cardiovascular, neurological and selected oncological diseases and disorders.



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