

## TOPICS/subtopics

### 1. ANAKOINOSIS CLINICAL STRATEGIES

- a. Biomodulation and communicative reprogramming
- b. Correcting dysregulated cancer homeostasis
- c. Remodeling cancer phenotype beyond apoptosis induction

### 2. ANAKOINOSIS CLINICAL TOOLS

- a. Targeted therapy combined with anakoinosis
- b. Metronomic chemotherapy
- c. Transcriptional modulators and epigenetically modifying drugs
- d. Master modulators
- e. Assessing patients' responsiveness: not only apoptosis

### 3. BIOLOGICAL BASES OF ANAKOINOSIS

- a. Complex regulatory levels
- b. Immune regulatory circuitries.
- c. Stress response, heat shock proteins
- d. Autophagy
- e. Redox and metabolic pathways
- f. Understanding the metastatic process

### 4. MOLECULAR TISSUE DYNAMICS

- a. Homeostatic pathways
- b. Apoptosis and compensatory proliferation
- c. DNA damage response as homeostatic supervisor
- d. Epithelial control of oncogene functions
- e. Cell competition
- f. Plasticity of cancer cell phenotype, transdifferentiation, cancer stem cells, tumor dormancy

### 5. NOVEL TECHNICAL APPROACHES TO STUDY ANAKOINOSIS

- a. New prospects in animal models
- b. High tech *in vitro* studies
- c. Modeling *in vitro* the cancer microenvironment and the metastatic niche
- d. Mathematical modelling of cancer dynamics
- e. Omic approaches
- f. Single cell sequencing, transcriptomics and high throughput analysis

### 6. ANAKOINOSIS, A NOVEL OPPORTUNITY FOR SUSTAINABLE DRUG DEVELOPMENT

- a. Biomodulatory immunotherapy
- b. New bio-modulatory drugs and combinations
- c. Bioinformatics approaches
- d. Nanomedicine
- e. Drug repurposing