

## Tentative Outline

### Special/Thematic Issue for the journal "Current Cancer Drug Targets - CCDT"

**Tentative Title: Radiotherapy and Systemic Therapies: interactions, timing, and safety**

**Guest Editor: Dr. Valerio Nardone & Dr. Isacco Desideri**

#### Scope of the Thematic Issue:

Management of cancer patients is becoming a worldwide challenge, due to rapidly changing evidence, new drugs approval, and scientific guideline updates. The introduction of the multidisciplinary approach has helped clinicians meet the growing needs of cancer patients. The multidisciplinary team, that includes medical oncologists, radiation oncologists, surgical oncologists, dedicated radiologists, and other specialists involved in the clinical management of these patients. Treatment options depend on several factors, including the type and stage of cancer, the potential side effects, and the preference of patients.

At the same time, recent developments in radiotherapy with the incorporation of intensity-modulated radiotherapy, molecular imaging-guided radiotherapy, adaptive radiotherapy, and proton therapy has the potential to decrease the long-term toxicity of this approach. Similarly, the world of Medical Oncology has been completely changed by recent translational discoveries in the field of target therapies and immunotherapy.

In this context, the knowledge of the interactions between radiotherapy and systemic therapies, as well as the choice of the timing and the safety profile of the combination of these therapies is pivotal to increase the therapeutic ratio in oncology.

Aim of this Special Thematic Issue is to depict the latest development in the combination therapy with radiation and systemic approaches (chemotherapy, immunotherapy and new therapies), with a focus on interactions, translational evidences, efficacy and safety profile of concurrent and sequential therapies in different districts.

**Keywords:** Radiotherapy; Systemic Therapy; Chemotherapy; Target Therapy; Immunotherapy; Chemoradiotherapy; Drugs;

#### Sub-topics:

The sub-topics to be covered within the issue should be provided:

The Thematic Issue would cover different diseases and special subsets of patients, analyzing the interactions between radiotherapy and systemic therapies, starting from the translational evidence of synergy and interactions to the efficacy and safety profile of concurrent and sequential therapies. The diseases covered are brain cancer, lung cancer, head and neck cancer, gastrointestinal cancer, breast cancer, skin cancer and hematological malignancies. The special subset of patients are patients with oligometastatic cancer undergoing ablative radiotherapy, metastatic patients undergoing palliative radiotherapy and elderly patients

#### Tentative titles of the articles

- Radiotherapy and Systemic Therapies: Focus on Brain Cancer
- Radiotherapy and Systemic Therapies: Focus on Lung Cancer
- Radiotherapy and Systemic Therapies: Focus on Head and Neck Cancer
- Radiotherapy and Systemic Therapies: Focus on Gastrointestinal Cancer
- Radiotherapy and Systemic Therapies: Focus on Prostate Cancer
- Radiotherapy and Systemic Therapies: Focus on Breast Cancer

- Stereotactic Radiotherapy and Systemic Therapies
- Focus on Oligometastatic Cancer
- Palliative Radiotherapy and Systemic Therapies: Focus on metastatic Cancer
- Radiotherapy and Systemic Therapies: Focus on Skin Cancer
- Radiotherapy and Systemic Therapies: Focus on Elderly Patients
- Radiotherapy and Systemic Therapies: Focus on Hematological Malignancies

#### **Schedule:**

- ✧ Complete Thematic issue submission deadline: **January 2023**

#### **Details of Guest Editors:**

Name: Valerio Nardone

Role: Assistant Professor

Affiliation: Department of Precision Medicine, University of Campania "L. Vanvitelli", Naples

Email: [Valerio.nardone@unicampania.it](mailto:Valerio.nardone@unicampania.it)

Name: Isacco Desideri

Role: Assistant Professor

Affiliation: Department of Radiation Oncology, Azienda-Ospedaliero-Universitaria Careggi,  
University of Florence, Italy;

Email: [isacco.desideri@unifi.it](mailto:isacco.desideri@unifi.it)