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# **Cancer Cell Reprogramming and Emerging Approaches**

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## Message from the Guest Editors

Since the concept of cellular plasticity was established, remarkable progress has been made in reprogramming terminally differentiated somatic cells and cancer cells into induced pluripotent cells and cancer cells with benign phenotypes. . A number of intra- and extracellular factors are already described to be implicated in cancer cell reprogramming, such as epigenetic factors, genetic mutations, intracellular pro-malignant, and pro-survival signaling pathways, etc. Additionally, a variety of microenvironmental factors play a critical role in the formation of carcinoma cells of different aggressiveness and sensitivities to currently used therapeutic approaches. Thus, it is proposed that hypoxia and non-malignant cells comprising the tumor such as stroma cells and immune cells could also modify the physiological and molecular properties of carcinoma cells and affect their sensitivities to treatment.

The aim of this Special Issue is to highlight the variety of factors associated with cancer cell reprogramming and the recent approaches to facilitating reprogramming therapy for in vitro/in vivo cancer transition.



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### Message from the Editor-in-Chief

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