Special Issue

Skin Cancer and Enviornment

Message from the Guest Editors

Ultraviolet (UV) radiation in sunlight is a major environmental risk factor for skin cancers. It damages the DNA directly and indirectly, triggering multiple carcinogenic cellular processes. The most prominent type of direct DNA damage is cyclobutane pyrimidine dimers (CPDs), which leads to UV signature mutations that constitute >80% of all mutations in sunlight-induced skin cancers. Indirectly, UV generates ROS which damages the DNA oxidatively. Recently, it was discovered that UV-induced ROS can also generate CPDs indirectly, by oxidizing melanin into a high-energy molecular species, suggesting that the extent of UV-induced DNA damage has always been underestimated. Owing to several open-ended aspects, this Special Issue will focus on the full extent of DNA damage induced by UV, its repair by the nucleotide excision repair pathway, the role of ROS molecules in the overall process, and the interaction between skin pigments and sunlight.

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Message from the Editor-in-Chief

Cancers is an international online journal addressing both clinical and basic science issues related to cancer research. The journal is publishing in Open Access format, which will certainly evolve to ensure that the journal takes full advantage of the rapidly changing world of information and knowledge dissemination. It publishes high-quality clinical, translational, and basic science research on cancer prevention, initiation, progression, and treatment, as well as other related topics, particularly to capture the most seminal studies in the rapidly growing area of immunology, immunotherapy, and tumor microenvironment.

Editor-in-Chief

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