Current Trends in Medicinal Chemistry of Photoprotection and Phototherapy

**Aims & Scope:**

The theme issue would be dedicated to current views: (i) on mechanisms/molecular targets for pharmacological and cosmeceutical chemoprevention of UV-induced non-melanoma skin cancers and premature signs of cutaneous ageing; (ii) on the discovery and development of effective targeted substances/compositions for the prevention and treatment of UV-induced biological damages/clinical consequences; (iii) on the discovery and development of photosensitizers/drugs for photodynamic therapy.

**Keywords:** Broad band photo protection; melanoma; NFkappaB; non-melanoma skin cancers; Nrf2; photo ageing; photodynamic therapy; photosensitises; serotonin receptors; skin; UV.

**Sub topics:**

- Glycosylated Polyphenols for Broad Band UV Protection: from mechanisms to sunscreen development
- Nrf-2-directed Photoprotection
- Serotonin receptors as therapeutic targets to prevent photocarcinogenesis
- UV-protective NFkappaB-targeting substances for anti-aging drugs/cosmetics
- New trends in the development of photosensitizers for photodynamic therapy
- Molecular Engineering of Photosensitizers for Enhanced Photodynamic Therapy Against Pigmented Melanoma
- Phospholipid oxidation in UV stress, cellular senescence, and skin photoprotection
- Hormonal regulation of the repair of UV photodamage in melanocytes by the MSH-MC1R signaling axis
- Novel approaches in the development of targeted delivery systems for photoprotectors/photosensitisers

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