

Dipartimento di Biotecnologie e Bioscienze – UNIMIB

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Optical modulation of living systems by carbon-based nanomaterials: the photoceutics strategy

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Abstract: Use of light for selective and spatio-temporally resolved control of cell functions (photoceutics) is emerging as a valuable alternative to standard electrical and chemical methods.

Here, we propose the use of organic semiconductors as efficient and biocompatible optical transducers, and we focus in particular on breakthrough applications in the field of regenerative medicine and plant biotechnology. Devices able to selectively and precisely modulate the fate of living cells, from adhesion to proliferation, from differentiation up to specific function, upon visible light will be presented and critically discussed.

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