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**PR-10. PHOTOCHEMICAL APPROACHES IN SYNTHESIS  
AND STRUCTURING OF HYDROGEL MATERIALS**

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Material for biological and medical applications have advanced from being simply biocompatible to mimicking three-dimensional anatomical structures capable of supporting de novo engineered living tissues.

The formation of such materials requires novel synthetic strategies which must be both bio-orthogonal and spatially specific. While various approaches towards the creation of artificial networks *in situ* with living cells and tissues are currently widely present, spatial control over the material structure still lags behind.

In a current presentation some last achievements of our group on the synthesis and structuring of novel hydrogel materials for various applications will be highlighted.