

Title: Synthetic Organic Photosensitizers in Action; Applications Triggered by UVA and Visible Light

Abstract: Organic Photosensitizers are compounds that are able to get excited by absorption of light and their excited states can initiate a series of chemical reactions that find applications in Organic Synthesis, Material Chemistry, Polymer Science, Environmental Chemistry and Medicine. Our studies focus on the development of novel DNA and protein photocleavers as possible anticancer, antimicrobial and insecticidal agents. The variety of the discovered photosensitizers from our group that include oxime esters, quinazolinones, anthranilic acid derivatives and boron heterocycles shows the potential of the field to play role in diverse scientific disciplines.