

Photodynamic Therapy Laboratory		
Department	Department of Chemistry	
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General Information	<i>In vitro</i> photodynamic therapy applications on different cancer cell lines are carried out in this laboratory.	
Applications⁴	<ul style="list-style-type: none"> ○ Research on cancer treatment by photodynamic therapy ○ <i>In vitro</i> cell studies ○ Living cell application of the sensors 	
Laboratory photograph		
Equipment	<ul style="list-style-type: none"> ○ Incubator (Heal Force) ○ Laminar Flow (Heal Force) ○ Inverted Microscope (Motic) ○ Centrifuge (Hettich) ○ Vortex (Wisd) 	
Projects	<ul style="list-style-type: none"> ○ Tübitak, ARDEB 1002 (2013-2014) Synthesis and Investigation of <i>In vitro</i> Photodynamic Cancer Therapy Activities of Dimeric Pyrene-BODIPY-Phthalocyanine Photosensitizers, 30.000 TL ○ Tübitak-Bulgaria Bilateral Project, (2013-2016) Water-soluble Phthalocyanines for Fluorescence Diagnosis and Photodynamic Therapy, 332.869 TL ○ Tübitak, ARDEB 1001, (2008-2010) Synthesis and Photodynamic Therapy Applications of Phthalocyanine-Nanoparticle Photosensitizers, 164.362 TL ○ Tübitak, ARDEB 1001 (2011-2013) Synthesis, Photophysical and Photochemical Properties of Novel Type Photosensitizers for Photodynamic Therapy, 167.440 TL ○ Tübitak, ARDEB 1002 (2015-2016) Synthesis of Novel Phthalocyanine-Borondipyrromethene (BODIPY) Photosensitizers <i>via</i> “Click” Process for Diagnostic and 	

Therapy (THERANOSTIC) of Cancer and Investigation of Their Properties, 30.000 TL

- Tübitak, ARDEB 1001 (2015-2017) Synthesis and Biological Activities of Novel Type Multifunctional Photosensitizer Compounds, 426.907 TL
- Tübitak, ARDEB 1001 (2019-.....) New Generation Photosensitizers for Cancer Treatment via Photodynamic Therapy: Synthesis and Determination of In vitro Activities Towards Breast Cancer Cells (MCF-7, MDA-MB-231) 465.627 TL