


## 2L-03 LABORATORY OF HETEROCYCLIC COMPOUNDS

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<b>General Information</b>	<p>The synthesis and characterization of heterocyclic inorganic compounds</p> <p>The synthesis and characterization of coordination compounds</p> <p>The investigation of reaction mechanisms</p> <p>Stereoisomerism of inorganic compounds</p> <p>The synthesis and characterization of quinones, the comparison of their biological activities and the relationship between their structures and activities</p> <p>The synthesis and characterization of mesoporous structured metal oxides</p> <p>The preparation and characterization of catalysts for methane reforming</p>	
<b>Applications</b>	<ul style="list-style-type: none"><li>○ Synthesis</li><li>○ Separation and Distillation</li><li>○ Characterization</li></ul>	
<b>Laboratory Photograph</b>		
<b>Instruments</b>	<ul style="list-style-type: none"><li>○ Rotating Evaporator (Heidolph)</li><li>○ Analytical laboratory scale (Kern PCB)</li><li>○ High precision laboratory scale (Kern ABJ-NM)</li></ul>	

	<ul style="list-style-type: none"> <li>○ Drying oven (Nüve FN 500)</li> <li>○ Melting point apparatus (BioCote) o</li> <li>○ Magnetic stirrer (Heidolph, Corning, Isolab)</li> <li>○ UV lamp (Camag)</li> </ul>
<b>Projects</b>	<ul style="list-style-type: none"> <li>○ Tübitak, Ardeb 1001, (2013-2016), The synthesis of spiro bridged cyclophosphazene compounds having two and four equivalents chiral centres, their characterization and the investigation of their stereogenic properties, 195.700,00 TL</li> <li>○ Tübitak, Ardeb 3001, (2014-2016), The synthesis of Ag(I) coordination polymers of cyclophosphazenes and their structure determination, 74.920,00 TL</li> <li>○ Tübitak, Ardeb 3001, (2016-2018), Mesoporous TiO<sub>2</sub>-Rutile reinforced MnxOy-Na<sub>2</sub>WO<sub>4</sub>: Preparation, Characterization and Catalytic performance for oxidative reaction of methane, 59.481,00 TL</li> <li>○ BAP-2017-A-102-11 (2017-2018), The synthesis of inorganic heterocyclic compounds having stereogenic center, 7500 TL</li> <li>○ Tübitak, Ardeb 3001, (2018-2020), The synthesis of amino substituted quinoline-5,8-dione and its biologic determination, 59.566,00 TL</li> <li>○ BAP-2018-A105-31, (2018-2020), The synthesis of dimethylbenzoquinones bearing piperazine group and the investigation of their antimicrobial activities, 7.500,00 TL</li> <li>○ BAP-2019-A-102-18 (2019-2020), Cyclophosphazene compounds bearing Schiff bases and their metal complexes, 10.000 TL</li> <li>○ BAP-FBA-2019-32249-İÜC, (2019-2021), The synthesis of amino substituted azanaphthoquinones, 19.000,00 TL</li> <li>○ BAP-2019-A-105-42, (2019-2021), The synthesis and characterization of heterocyclic structured aminobenzoquinones, 7.500,00 TL</li> </ul>