


2L-05 HETEROCYCLIC COMPOUNDS SYNTHESIS LABORATORY

Department	Department of Chemistry	
Laboratory Responsible	Prof. Dr. Hanife İBİŞOĞLU	ibisoglu@gtu.edu.tr
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General Information	Synthesis and characterization of cyclophosphazenes, which are derivatives of heterocyclic compounds, are being studied. Synthesis characterization and application of metal nanoparticles. Synthesis and characterization studies of some organic compounds.	
Applications	<ul style="list-style-type: none">○ Synthesis of cyclophosphazenes○ Structure analysis of cyclophosphazenes○ Synthesis and characterization of metal nanoparticles	
Laboratory Photograph		
Equipment	<ul style="list-style-type: none">○ Magnetic stirring hot plates (Heidolph, Corning, Arex, MTops)○ Rotary Evaporators (Heidolph, Buchi)○ Balance (Ohaus)	
Projects	<ul style="list-style-type: none">○ TÜBİTAK, Ardep1002, (2018-2020), Synthesis, characterization and investigation of antimicrobial properties of cyclotriphosphazene compounds containing heterocyclic groups ,30.000,00 Türk Lirası○ GTU BAP (2019-2020) Plant-based biosynthesis, characterization and catalytic effects of metal nanoparticles (7.500 TL).○ TÜBİTAK, Ardep1002, (2016 - 2017) , Synthesis, characterization and investigation of photophysical properties of cyclotriphosphazenes containing monocarbonyl curcumin derivatives 30.000,00 Türk Lirası.○ TÜBİTAK, Ardep, 1002 (2010-2011), Syntheses and investigations of thermal properties of adamantane derivative substitute cyclophosphazenes, 24.175,00 Turkish Lira○ TÜBİTAK Ardep, 1002 (2013-2014), Synthesis, characterization, and investigations of photophysical properties of cyclotriphosphazenes containing schiff base, 30.000 Turkish Lira.○ TÜBİTAK, Ardep, 1002 (2016-2017), Synthesis, characterization and investigation of photophysical properties of	

cyclotriphosphazenes containing monocarbonyl curcumin derivatives, 30.000 Turkish Lira.

- GTÜ,BAP,(2014-2015), Syntheses and characterizations of imino derivatives of the compound of hexa(4-formyl-1-naphthoxy)cyclotriphosphazatriene, 7.740,00 Turkish Lira.
- GTÜ,BAP,(2013-2015), The investigations of nucleophilic substitution reactions of difunctional alcohols with aminocyclotetraphosphazene compound, 8.675,00 Turkish Lira.
- GTÜ,BAP,(2011-2012), Syntheses and characterizations of novel aminocyclotriphosphazenes, 4.790,00 Turkish Lira.
- GTÜ,BAP,(2008-2009), The reaction of mono Substituted aminophosphazenes with thiol compounds in different conditions and their characterizations, 7.690,00 Turkish Lira.