

## Prof. LEYLA AÇIK

### Personal Information

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### Education Information

Doctorate, University of Manchester Institute of Science and Technology (UMIST), Moleküler Biyoloji Ve Biyokimya, England 1988 - 1992

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Biyoloji (YI) (Tezli), Turkey 1984 - 1987

Undergraduate, Ankara University, Fen Fakültesi, Biyoloji Bölümü, Turkey 1979 - 1983

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

Health&Medicine, Prokaryotik ve ökaryotik hücrelere gen aktarımı, Türk Biyokimya Derneği, 2010

Health&Medicine, Avrupa bilim ve eğlence günü, TÜBİTAK, 2010

### Dissertations

Doctorate, Some studies on cytosine permase, University of Manchester Institute of Science and Technology (UMIST), Moleküler Biyoloji Ve Biyokimya, 1992

Postgraduate, Bazı lepidoptera türlerinin erginlerinde sindirim kanalının anatomik ve histolojik incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Biyoloji (YI) (Tezli), 1986

### Research Areas

Natural Sciences

### Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Biyoloji, 2004 - Continues

Professor, Berkeley College, California Univ, Plant Molecular Biology, 2005 - 2005

Associate Professor, Gazi University, Fen Fakültesi, Biyoloji, 1999 - 2005

Assistant Professor, Gazi University, Fen Fakültesi, Biyoloji, 1994 - 1999

Expert PhD, University of Manchester Institute of Science and Technology (UMIST), Molecular Biology % Biochemistry, Mol Biol, 1992 - 1993

## Academic and Administrative Experience

Doçentlik komite üyesi, Gazi University, Fen Fakültesi, Biyoloji, 2012 - 2015  
Gazi University, Fen Fakültesi, Biyoloji Bölümü, 2009 - 2009  
Research Institute Director, Gazi University, 2006 - 2008  
Gazi University, Fen Fakültesi, Biyoloji Bölümü, 1997 - 1999

## Courses

RESEARCH PROJECT II, Undergraduate, 2021 - 2022  
GENETIC ENGINEERING, Undergraduate, 2021 - 2022  
POLYMERASE CHAIN REACTION AND ITS APPLICATIONS, Undergraduate, 2021 - 2022  
YETERLİK SINAVI, Doctorate, 2021 - 2022  
SEMİNER, Postgraduate, 2021 - 2022  
REAL TIME PCR AND ITS APPLICATIONS, Postgraduate, 2021 - 2022  
DOKTORA SEMİNER, Doctorate, 2021 - 2022  
MOLECULAR GENETIC, Undergraduate, 2021 - 2022  
GENOM, Undergraduate, 2021 - 2022  
TECHNIQUES USED IN MOLECULAR BIOLOGY I, Postgraduate, 2021 - 2022  
TECHNIQUES USED IN MOLECULAR BIOLOGY II, Postgraduate, 2021 - 2022  
PREPARATION FOR MASTER'S THESIS, Postgraduate, 2021 - 2022  
GENE CLONING, Postgraduate, 2021 - 2022  
RESEARCH PROJECT I, Undergraduate, 2021 - 2022  
GENS, Postgraduate, 2021 - 2022  
MOLECULAR BIOLOGY LABORATORY, Undergraduate, 2021 - 2022  
MOLECULAR BIOLOGY, Undergraduate, 2021 - 2022  
DOKTORA TEZ ÇALIŞMASI, Doctorate, 2021 - 2022  
DOKTORA TEZİNE HAZIRLIK, Doctorate, 2021 - 2022  
MASTER'S THESIS, Postgraduate, 2021 - 2022

## Advising Theses

Açık L., Investigation of gene expression profiles of human cumulus cells to evaluation of oocyte development capacity as a biomarker, Doctorate, D.DENİZ(Student), Continues  
AÇIK L., N/O donör atomlu siklotetrafosfazen türevlerinin biyolojik aktiviteleri, Doctorate, N.RAMAZANOĞLU(Student), 2020  
AÇIK L., Mono ve di sübtitüe trimerik fosfazenlerin biyolojik aktivitesi, Postgraduate, H.KAYALAK(Student), 2019  
AÇIK L., Verbascum armenum BOISS. ET KOTSCHY var. armenum BOISS. ET KOTSCHY bitkisinin biyolojik aktivitesi, Postgraduate, Ö.KILIÇ(Student), 2019  
AÇIK L., Biological Activity Of Coumarin Compounds, Postgraduate, F.ERVANUR(Student), 2019  
AÇIK L., 2-piridil-siklotrifosfazenlerin ve tuzlarının antimikrobiyal ve sitotoksik aktiviteleri ve dna etkileşimleri, Postgraduate, P.ÖZBEDEN(Student), 2018  
AÇIK L., Antimicrobial And Cytotoxic Activities And Dna Interactions Of Bis-Ferrosenyl-Substitute Cyclotetraphosphate Derivatives, Postgraduate, S.PINAR(Student), 2018  
AÇIK L., The Antimicrobial Activities And Dna Interactions Of (4-Fluorobenzyl) Pendant Armed Octachlorocyclotetraphosphazenes, Postgraduate, M.ÇAM(Student), 2018  
AÇIK L., Antimicrobial, Antituberculosis, Antioxidant, Cytotoxic Activities And Dna Interactions With Ferrocenyl Cyclotetraphosphazene Compounds, Doctorate, B.AYDIN(Student), 2018  
AÇIK L., Antimicrobial And Cytotoxic Activities And Dna Interactions Of 2- Pyridiyl-Cyclotriphosphazenes Antimicrobial And Cytotoxic Activities And Dna Interactions Of 2-Pyridiylcyclotriphosphazenes And Salts, Postgraduate, P.Özbeden(Student), 2018

- AÇIK L., Biological Activity Of Bupleurum Lycaonicum Snogerup Plant Species, Postgraduate, S.Ertan(Student), 2017
- AÇIK L., Investigation Of Biological Activity Arylstyrylimidazo[1,2-A] Pyridin Components, Postgraduate, L.ARSLAN(Student), 2017
- AÇIK L., The Screening Of Some Polymorphisms In Diabetes Patients, Postgraduate, B.GÖRGÜN(Student), 2016
- AÇIK L., Determination Of Antioxidant Activity And Cytotoxic Activity Macrofungi Suillus Luteus (L.) Roussel, Postgraduate, E.Can(Student), 2016
- AÇIK L., Suillus luteus (L.) Roussel makromantarının antioksidan aktivitesi ve sitotoksik etkisinin belirlenmesi, Postgraduate, E.CAN(Student), 2016
- AÇIK L., Antimicrobial, Antioxidant Activities Of Satureja Khuzestanica Extract (Methanol, Ethanol, Water) And Their Cytotoxic And Apoptotic Activities On Some Cancer Cell Lines, Doctorate, H.SOLTANZADEH(Student), 2015
- AÇIK L., Investigation Of Biological Activity Of Scandix Australis L., Postgraduate, M.ÜSTÜNDAĞ(Student), 2015
- AÇIK L., Phlomis nissolii L.'nin biyolojik aktivitesinin belirlenmesi, Postgraduate, N.BAYIN(Student), 2014
- AÇIK L., Determination of biological activity of Phlomis Nissolii L., Postgraduate, N.Bayin(Student), 2014
- AÇIK L., Biological activities of phosphazene compounds which are tetradentate ligand with trimer, Postgraduate, O.AVCI(Student), 2013
- AÇIK L., Screening of some gene polymorphisms in Turkish type 2 diabetes patients, Doctorate, N.Selcen(Student), 2013
- AÇIK L., Tip 2 diabetli Türk hastalarda bazı gen polimorfizmlerinin belirlenmesi, Doctorate, N.SELCEN(Student), 2013
- AÇIK L., Investigation of biological activity of klasea bornmuelleri (Azn.), Postgraduate, Z.BETÜL(Student), 2013
- AÇIK L., Determination of CYP 17 gene polymorphism in polycystic ovary syndrome, Postgraduate, Y.ÖNER(Student), 2013
- AÇIK L., Identification and quantification of anaerobic bacteriel species taken from acute apical abscesses, Postgraduate, N.TAŞDEMİROĞLU(Student), 2013
- AÇIK L., IL-4 and IL-6 gene polymorphisms in chronic renal failure patients, Postgraduate, N.RAMAZANOĞLU(Student), 2012
- AÇIK L., Investigation of antimicrobial, antioxidant and cytotoxic effects of achillea teretifolia willd, Doctorate, E.BURCU(Student), 2012
- AÇIK L., İnsan dişlerinde periapikal hastalıklara sebep olan bazı patojen bakterilerin polimeraz zincir reaksiyonu ve Porphyromonas gingivalisin eş zamanlı polimeraz zincir reaksiyonu ile nicel olarak tespiti, Postgraduate, İ.ARAZ(Student), 2012
- AÇIK L., Detection of some pathogen bacteria which causes periapical diseases at human teeth by polymerase chain reaction and quantitative detection of porphyromonas gingivalis by real time polymerase chain reaction, Postgraduate, İ.Araz(Student), 2012
- AÇIK L., Molecular analysis and accumulations of nickel and cadmium at alyssum corsicum (brassicaceae), Postgraduate, F.AYDIN(Student), 2011
- AÇIK L., DETERMINATION OF ANTIMICROBIAL ACTIVITIES OF PHOSPHAZENE DERİVATİVES AND THEIR INTERACTION WITH DNA, Postgraduate, M.YAVUZ(Student), 2010
- AÇIK L., POLİKİSTİK OVER SENDROMUNDA CAPN 10-19 (KALSİYUM İLE AKTİVE EDİLMİŞ NÖTRAL PROTEİNAZ 10 SNP 19) VE CAPN 10-43 (SNP 43) GENİ POLİMORFİZMİ SIKLIĞI, BUNLARIN İNSÜLİN DİRENCİ VE KLİNİK PARAMETRELER İLE İLİŞKİSİ, Postgraduate, G.GÜNALTILI(Student), 2010
- AÇIK L., Rahim ağzı, yumurtalık ve rahim kanserli olgularda p53 72. kodon ve MTHFR C677T polimorfizminin polimeraz zincir reaksiyonu (PZR) ve restriksiyon parça uzunluk polimorfizmi (RFLP) analizi ile araştırılması, Postgraduate, Y.CEREN(Student), 2010
- AÇIK L., Polikistik over sendromunda CAPN 10-19 (kalsiyum ile aktive edilmiş nötral proteinaz 10 SNP 19) ve CAPN 10-43 (SNP 43) geni polimorfizmi sıklığı, bunların insülin direnci ve klinik parametreler ile ilişkisi, Postgraduate, G.GÜNALTILI(Student), 2010
- AÇIK L., Bazı fosfazen bileşiklerinin antimikrobiyal aktivitelerinin belirlenmesi ve bu bileşiklerin DNA ile etkileşimi, Postgraduate, M.YAVUZ(Student), 2010
- AÇIK L., AN INVESTIGATION WITH POLYMERASE CHAIN REACTION (PCR) AND RESTRICTION FRAGMENT LENGTH POLYMORPHISM (RFLP) ANALYSIS p53 CODON 72 AND MTHFR C677T POLYMORPHISMS IN CERVIX, OVER AND ENDOMETRIUM CARCİNOMAS, Postgraduate, Y.Ceren(Student), 2010
- AÇIK L., Türk popülasyonunda gastrointestinal sistem kanser olgularında fosfatidilinositol-3-kinaz katalitik alfa (PIK3CA)

gen mutasyonları ve metilentetrahidrofolat redüktaz (MTHFR) C677T polimorfizminin incelenmesi, Postgraduate, Ö.ÖZCAN(Student), 2009

AÇIK L., DETERMINATION AND MOLECULAR ANALYSIS OF NICKEL ACCUMULATION AT ALYSSUM CORSICUM (BRASSICACEAE) GROWN IN TISSUE CULTURE CONDITIONS, Doctorate, S.SELCEN(Student), 2008

AÇIK L., AN INVESTIGATION OF RET (REarranged during Transfection) PROTOONCOGENE MUTATIONS IN THYROID CARCINOMA, Postgraduate, N.SELCEN(Student), 2008

AÇIK L., MOLECULAR INVESTIGATION OF PLASMID OR CHROMOSOMAL MEDIATED EXTENDED SPECTRUM BETA-LACTAMASES EXISTANCE IN ESCHERICHIA COLI, KLEBSIELLA AND ACINETOBACTER STRAINS, Postgraduate, E.BURCU(Student), 2008

AÇIK L., RAS ONCOGENE MUTATION DETECTION IN THYROID TUMORS AND THYROID DEFLECTIONS PATIENTS WITH NESTED PCR AND RFLP, Postgraduate, B.Cihan(Student), 2008

AÇIK L., Tiroit kanserli ve tiroit bozukluğu olan hastalarda ras onkogen mutasyonlarının yuvalanmış polimeraz zincir reaksiyonu ve restriksiyon enzim kesimi ile araştırılması, Postgraduate, B.CİHAN(Student), 2008

AÇIK L., MORPHOLOGIC AND MOLECULAR ANALYSES OF VARIOUS BELLIS PERENNIS POPULATIONS AND DETECTION OF ANTIMICROBIAL, ANTIOXIDANT ACTIVITIES OF THIS POPULATIONS, Postgraduate, N.KAVALCIOĞLU(Student), 2008

AÇIK L., Escherichia coli, Klebsiella ve Acinetobacter suşlarında plazmit veya kromozomal kaynaklı genişlemiş spektrumlu beta-laktamaz varlığının araştırılması ve moleküler yönden incelenmesi, Postgraduate, E.BURCU(Student), 2007

AÇIK L., IDENTIFICATION, MOLECULAR TYPING AND DETERMINATION OF BIOLOGICAL ACTIVITIES OF BACILLUS SPECIES ISOLATED FROM SOILS IN ANKARA, Doctorate, F.ÖZTÜRK(Student), 2007

AÇIK L., DUMAN H., Türkiye Sideritis L. (Labiatae) türlerinin tohum protein analizleri, Postgraduate, F.ÖKE(Student), 2006

AÇIK L., NAD(p)h: Kinon oksidoredüktaz 1 gen polimorfizmi ile akut lösemi arasındaki ilişkinin incelenmesi, Postgraduate, D.DENİZ(Student), 2006

AÇIK L., Üriner sistem enfeksiyonlarından izole edilen Klebsiella pneumoniae'ların bazı antibiyotik duyarlılıkları, plazmid profilleri ve ESBL özelliğinin araştırılması, Doctorate, M.ONUR(Student), 2006

AÇIK L., Mercimek hat ve çeşitlerinde genetik varyasyonun tespiti, Doctorate, E.YÜZBAŞIOĞLU(Student), 2005

AÇIK L., III EFFECT OF GENE ALTERATIONS (FACTOR V 1691 G<sup>A</sup>; 4070 G<sup>A</sup>; PROTHROMBIN 20210 G<sup>A</sup>; ENDOTHELIAL NITRIC OXIDE SYNTHASE 894 G<sup>-</sup>→T; PLASMINOGEN ACTIVATOR INHIBITOR-1 -675 4G/5G; TISSUE PLASMINOGEN ACTIVATOR ALU I/D) TO PULMONARY EMBOLISM IN TURKISH PATIENTS, Doctorate, E.YILMAZ(Student), 2004

AÇIK L., Bütün türleri Türkiye için endemik olan Ebenus L. cinsinin DNA ve protein profilleri kullanılarak moleküler yönden karşılaştırılması, Doctorate, A.ÇELEBİ(Student), 2004

AÇIK L., Mastitisli ineklerden izole edilen Staphylococcus aureus suşlarının plazmit DNA ve protein profili analizleri, Doctorate, E.ARSLAN(Student), 2003

AÇIK L., Türkiye'de yetişen bazı Alyssum L. (Brassicaceae) türlerinin moleküler analizleri, Postgraduate, S.SELCEN(Student), 2002

AÇIK L., Tavuk kesimhanesinden ve tavuklardan izole edilen patojen ve indikatör bakterilerin tanımlanması ve karakterizasyonu, Postgraduate, S.ARSLAN(Student), 2002

AÇIK L., Kalıtsal sferositos ve B-talasemi taşıyıcısı + HS birlikteliği olan olgular ile splenektomi yapılmış olguların ayırıcı tanısında kan parametrelerinin yeri, Postgraduate, H.GÖKÇE(Student), 2000

AÇIK L., Serviks karserli Türk hastalarda HPV DNA'nın PCR metodu ile tiplendirilmesi, Postgraduate, D.ÇALIŞ(Student), 2000

AÇIK L., Rastgele çoğaltılmış polimorfik dna polimeraz zincir reaksiyonu (RAPD-PCR) aracılığı ile Konya çevresindeki Hyacinthella schur (LILIACEAE) türleri arasındaki genetik uzaklıkların belirlenmesi, Postgraduate, E.ARSLAN(Student), 1999

AÇIK L., RAPD-PCR aracılığı bazı allium türleri arasındaki genetik uzaklıklar, Postgraduate, E.DEMİRÖRS(Student), 1997

AÇIK L., Saccharomyces cerevisiae kullanarak melastan etil alkol elde edilmesi, Postgraduate, E.AKDAĞ(Student), 1997

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

1. Antibacterial Efficiencies of CVD-PECVD Graphene Nanostructures Synthesized onto Glass and Nickel

## **Substrates against Escherichia coli and Staphylococcus aureus Bacteria**

ORHAN E., AYDIN B., AÇIK L., ÖZ F., Varzakas T.

APPLIED SCIENCES-BASEL, vol.11, no.17, 2021 (Journal Indexed in SCI)

- II. **Phosphorus-nitrogen compounds. Part 56. Comparative syntheses and spectral properties of multiheterocyclic 2-cis-4-ansa and spiro-ferrocenyl (N/O)cyclotetraphosphazenes: Antituberculosis and antimicrobial activity and DNA interaction studies**  
Binici A., OKUMUŞ A., Yakut M., ELMAS G., KILIÇ Z., Koyunoglu D., AÇIK L., ŞİMŞEK H.  
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, 2021 (Journal Indexed in SCI)
- III. **Phosphorus-nitrogen compounds Part 55. Syntheses of 4-methoxybenzylspiro(N/N)cyclotriphosphazenes: chemical, structural and biological properties**  
Güven Kuzey N., Cemaloğlu R., Yakut M., Asmafiliz N., Kılıç Z., AYDIN B., AÇIK L., HÖKELEK T.  
RESEARCH ON CHEMICAL INTERMEDIATES, 2021 (Journal Indexed in SCI)
- IV. **Phosphorus-nitrogen compounds: part 53-synthesis, characterization, cytotoxic and antimicrobial activity, DNA interaction and molecular docking studies of new mono- and dispirocyclotriphosphazenes with pendant arm(s)**  
Iscan O., Cemaloglu R., Asmafiliz N., Zeyrek C. T. , Kilic Z., AÇIK L., AYDIN B., Turk M., HÖKELEK T.  
MOLECULAR DIVERSITY, 2021 (Journal Indexed in SCI)
- V. **The comparative reactions of 2-cis-4-ansa and spiro cyclotetraphosphazenes with difunctional ligands: Structural and stereogenic properties, electrochemical, antimicrobial and cytotoxic activity studies**  
OKUMUŞ A., ELMAS G., KILIÇ Z., Binici A., Ramazanoglu N., AÇIK L., ÇOŞUT B., HÖKELEK T., GÜZEL R., TUNALI B. Ç. , et al.  
APPLIED ORGANOMETALLIC CHEMISTRY, 2021 (Journal Indexed in SCI)
- VI. **Mono- and dispirocyclotriphosphazenes containing 4-bromobenzyl pendant arm(s): Synthesis, spectroscopy, crystallography and biological activity studies**  
Kuzey N. G. , ÖZGÜR M., Cemaloglu R., ASMAFİLİZ N., KILIÇ Z., AÇIK L., AYDIN B., HÖKELEK T.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1220, 2020 (Journal Indexed in SCI)
- VII. **Synthesis of Bis(2,2,3,3-tetrafluoro-1,4-butanedioxy)-2-trans-6-bis(4-fluorobenzyl)spirocyclotetraphosphazene: Structural Characterization, Biological Activity and DFT Studies**  
ELMAS G., KILIÇ Z., ÇOŞUT B., Kesan G., AÇIK L., Cam M., TUNALI B. Ç. , TÜRK M., HÖKELEK T.  
JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, 2020 (Journal Indexed in SCI)
- VIII. **Phosphorus-nitrogen compounds. Part 48. syntheses of the phosphazanium salts containing 2-pyridyl pendant arm: structural characterizations, thermal analysis, antimicrobial and cytotoxic activity studies**  
ELMAS G., OKUMUŞ A., KILIÇ Z., Ozbeden P., AÇIK L., TUNALI B. Ç. , TÜRK M., Cerci N. A. , HÖKELEK T.  
INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL THEORETICAL & ANALYTICAL CHEMISTRY, vol.59, no.4, pp.533-550, 2020 (Journal Indexed in SCI)
- IX. **Synthesis and spectroscopic properties of (N/O) mono- and dispirocyclotriphosphazene derivatives with benzyl pendant arms: study of biological activity**  
Iscan O., Cemaloglu R., ASMAFİLİZ N., KILIÇ Z., AÇIK L., Ozbeden P., HÖKELEK T.  
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.1, pp.15-40, 2020 (Journal Indexed in SCI)
- X. **Phosphorus-nitrogen compounds: Part 46. The reactions of N<sub>3</sub>P<sub>3</sub>Cl<sub>6</sub> with bidentate and monodentate ligands: The syntheses, structural characterizations, antimicrobial and cytotoxic activities, and DNA interactions of (N/N)spirocyclotriphosphazenes with 4-chlorobenzyl pendant arm**  
ASMAFİLİZ N., Berberoglu I., ÖZGÜR M., KILIÇ Z., Kayalak H., AÇIK L., TÜRK M., HÖKELEK T.  
INORGANICA CHIMICA ACTA, vol.495, 2019 (Journal Indexed in SCI)
- XI. **Novel benzildihydrazone based Schiff bases: Syntheses, characterization, thermal properties, theoretical DFT calculations and biological activity studies**  
ELMACI G., Duyar H., AYDINER B., Yahaya I., SEFEROĞLU N., ŞAHİN E., Celik S. P. , AÇIK L., SEFEROĞLU Z.

JOURNAL OF MOLECULAR STRUCTURE, vol.1184, pp.271-280, 2019 (Journal Indexed in SCI)

- XII. **Phosphorus-Nitrogen compounds part 47: The conventional and microwave-assisted syntheses of dispirocyclotriphosphazene derivatives with (4-fluoro/4-nitrobenzyl) pendant arms: Structural and stereogenic properties and DNA interactions**  
Tanrikulu G. I., ÖZGÜR M., OKUMUŞ A., KILIÇ Z., HÖKELEK T., AYDIN B., AÇIK L.  
INORGANICA CHIMICA ACTA, vol.490, pp.179-189, 2019 (Journal Indexed in SCI)
- XIII. **A novel Trans-Pt(II) complex bearing 2-acetoxymethylbenzimidazole as a non-leaving ligand (trans-[Pt(AMBi)(2)Cl-2]): Synthesis, antiproliferative activity, DNA interaction and molecular docking studies compared with its cis isomer (cis-[Pt(AMBi)(2)Cl-2])**  
EREN G., EMERCE E., AÇIK L., AYDIN B., Gumus F.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1184, pp.512-518, 2019 (Journal Indexed in SCI)
- XIV. **Phosphorus-nitrogen compounds. Part 42. The comparative syntheses of 2-cis-4-ansa(N/O) and spiro(N/O) cyclotetraphosphazene derivatives: spectroscopic and crystallographic characterization, antituberculosis and cytotoxic activity studies**  
Binici A., OKUMUŞ A., ELMAS G., KILIÇ Z., Ramazanoglu N., AÇIK L., Simsek H., TUNALI B. Ç., TÜRK M., GÜZEL R., et al.  
NEW JOURNAL OF CHEMISTRY, vol.43, no.18, pp.6856-6873, 2019 (Journal Indexed in SCI)
- XV. **Studies on the synthesis, characterization, cytotoxic activities and plasmid DNA binding of platinum(II) complexes having 2-substituted benzimidazole ligands**  
Gözelle M., Kılıç Süloğlu A., Selmanoğlu G., Ramazanoglu N., Açıık L., Gumus F.  
POLYHEDRON, vol.161, pp.298-308, 2019 (Journal Indexed in SCI)
- XVI. **Phosphorus-nitrogen compounds. Part 44. The syntheses of N,N-spiro bridged cyclotriphosphazene derivatives with (4-fluorobenzyl) pendant arms: Structural and stereogenic properties, DNA interactions, antimicrobial and cytotoxic activities**  
Ozturk E., OKUMUŞ A., KILIÇ Z., KILIÇ A., Kayalak H., AÇIK L., Cerci N. A., TÜRK M., HÖKELEK T.  
INORGANICA CHIMICA ACTA, vol.486, pp.172-184, 2019 (Journal Indexed in SCI)
- XVII. **Novel fluorescent coumarin-thiophene-derived Schiff bases: Synthesis, effects of substituents, photophysical properties, DFT calculations, and biological activities**  
Yahaya I., Chemchem M., AYDINER B., SEFEROĞLU N., Tepe F. E., AÇIK L., Cerci N. A., TÜRK M., SEFEROĞLU Z.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.368, pp.296-306, 2019 (Journal Indexed in SCI)
- XVIII. **Synthesis, cytotoxic and biological activities of new partly and fully mono- and dispiro-4-methoxybenzylaminophosphazenes.**  
Kuzey N. G., Asmafiliz N., Acik L., Aydin B., Turk M., Cerci N.  
MOLECULAR BIOLOGY OF THE CELL, vol.29, no.26, 2018 (Journal Indexed in SCI)
- XIX. **Phosphorus-nitrogen compounds: Part 43. Syntheses, spectroscopic characterizations and antimicrobial activities of cis- and trans-N/O dispirocyclotriphosphazenes containing ferrocenyl pendant arms**  
TÜMER Y., ASMAFİLİZ N., KILIÇ Z., AYDIN B., AÇIK L., HÖKELEK T.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1173, pp.885-893, 2018 (Journal Indexed in SCI)
- XX. **Phosphorus-nitrogen compounds. Part 41. Ferrocenyl pendant-armed spirocyclopiperidinocyclotriphosphazatrienes: Langmuir-Blodgett thin films and biological activity studies**  
ASMAFİLİZ N., Civan M., Uzunalioglu N., Ozben A., KILIÇ Z., Kayalak H., AÇIK L., HÖKELEK T.  
JOURNAL OF CHEMICAL SCIENCES, vol.130, no.11, 2018 (Journal Indexed in SCI)
- XXI. **Synthesis and DNA binding of new adenine derivatives incorporating 5-((Alkylthio)-1,3,4-oxadiazol-2-yl)methyl moiety**  
YILDIRIR Y., Cetin A., Ozkan H., YAVUZ S., AÇIK L., Celik S. P.  
MEDICINAL CHEMISTRY RESEARCH, vol.27, no.8, pp.2027-2033, 2018 (Journal Indexed in SCI)
- XXII. **Phosphorus-nitrogen compounds. Part 40. The syntheses of (4-fluorobenzyl) pendant armed cyclotetraphosphazene derivatives: Spectroscopic, crystallographic and stereogenic properties, DNA**

**interactions and antimicrobial activities**

ELMAS G., OKUMUŞ A., KILIÇ Z., Cam M., AÇIK L., HÖKELEK T.

INORGANICA CHIMICA ACTA, vol.476, pp.110-122, 2018 (Journal Indexed in SCI)

- XXIII. **Phosphorus-nitrogen compounds. Part 39. Syntheses and Langmuir-Blodgett thin films and antimicrobial activities of N/N and N/O spirocyclotriphosphazenes with monoferrocenyl pendant arm**  
ASMAFİLİZ N., Civan M., Ozben A., KILIÇ Z., Ramazanoglu N., AÇIK L., HÖKELEK T.  
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- XXIV. **Syntheses, spectroscopic and crystallographic characterizations of cis- and trans-dispirocyclic ferrocenylphosphazenes: molecular dockings, cytotoxic and antimicrobial activities**  
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Çapan İ., Açık L., Gümüş M., Aydın B., TUBITAK Project, Benzimidazol-Karbazol Temelli Yeni Hibrit Moleküllerin Sentezi Ve Dna İle Etkileşimlerinin Araştırılması, 2020 - 2021

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AÇIK L., Project Supported by Higher Education Institutions, DNA Görüntüleme Sistemi ve Derin Dondurucu, 2018 - 2019

AÇIK L., Project Supported by Higher Education Institutions, NO Donorlu Mono(4-florobenzil) Spirosiklotetrafosfazenlerin Antimikrobiyal ve Sitotoksik Aktiviteleri ve DNA Etkileşimleri, 2017 - 2019

AÇIK L., TUBITAK Project, 2-Piridil-Spiro-Siklotrifosfazenlerin ve Tuzlarının Klasik ve/veya Mikrodalga Yöntemleri ile Sentezi, Yapılarının Karakterizasyonu, Antimikrobiyal, Antitüberküloz ve Sitotoksik Aktivitelerinin İncelenmesi, 2017 - 2019

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AÇIK L., Project Supported by Higher Education Institutions, Mono ve Dispiro 4-Bromobenzilaminofosfazenlerin Sentezi, Kristal Yapıları, Spektroskopik Özellikleri, Antimikrobiyal Aktiviteleri ve DNA ile Etkileşimleri, 2016 - 2017

AÇIK L., Project Supported by Higher Education Institutions, Bis-Ferrosenil- Sübstitüe Siklotetrafosfazen Türevlerinin Sentezi, Kristal Yapıları, Spektroskopik ve Elektrokimyasal Özellikleri ve Biyolojik Aktiviteleri, 2015 - 2017

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AÇIK L., Project Supported by Higher Education Institutions, TİP 2 DİABETLİ TÜRK HASTALARDA BAZI GEN POLİMORFİZMLERİNİN BELİRLENMESİ, 2013 - 2016

AÇIK L., Project Supported by Higher Education Institutions, N<sub>2</sub>N<sub>2</sub> veya N<sub>2</sub>O<sub>2</sub> Donörlü Tetramerik Fosfozen Türevlerinin Sentezleri Kristal Yapıları Spektroskopik ve Stereojenik Özellikleri DNA ile etkileşimleri Sitotoksik ve Biyolojik Aktiviteleri, 2013 - 2015

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Akaydın S., Can E., Açık L., Şimşek H. B. , Çelebi Keskin A., Yalçıntaş Arslan Ü., Atalay M. C. , Project Supported by Higher Education Institutions, Investigation of Gene Expression of Pontin and Reptin on Regulation of Telomerase Activity in Several Types of Cancer, 2009 - 2012

AÇIK L., Project Supported by Higher Education Institutions, Bellis Perennis Türünün Antimikrobiyal ve Antikanserojen Etkilerinin Araştırılması ve Bu Türün Morfolojik ve Moleküler Yönlerden İncelenmesi, 2007 - 2011

Aduğüzel N., Vural M., Açık L., Ünal F., Özbek M. U. , TUBITAK Project, Türkiye nin Anthemis L Cinsine Ait Cota J Gay Rupr Seksiyonunun Revizyonu, 2006 - 2010

Bali E. B. , Açık L., Project Supported by Higher Education Institutions, Escherichia coli Klebsiella ve Acinetobacter Suşlarında Plazmit veya Kromozomal Kaynaklı Genişlemiş Spektrumlu Beta Laktamaz GSBL Varlığının Araştırılması ve Moleküler Yönden İncelenmesi, 2005 - 2007

## Activities in Scientific Journals

Turkish Journal of Biology, First Editor, 2008 - 2011

## Scientific Research / Working Group Memberships

Bilim Ve Teknoloji Stratejileri Araştırma Ve Geliştirme Merkezi, Gazi University, Turkey, gazi.edu.tr, 2005 - 2009

## Citations

Total Citations (WOS):1521

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## Scholarships

YÖK Doktora bursu, YOK, 1987 - 1992

## Awards

Açık L., En çok yayın yapma ödülü, G.Ü. Fen Fak. Dekanlığı, May 2018

Açık L., Bölümde en çok yayın yapan kişi, G.Ü. Fen Fakültesi Dekanlığı, March 2015

Açık L., SCI- Yayın ödülü, Gazi Üniversitesi Rektörlüğü, June 2014

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Açık L., SCI- Yayın ödülü, Gazi Üni. Rektörlüğü, May 2012

Açık L., SCI- Yayın ödülü, Gazi Üniversitesi Rektörlüğü, July 2011

Açık L., NOVARTİS makale ödülü, Novartis, January 2011

Açık L., SC Yayın Ödülü, Gazi Üniversitesi Rektörlüğü, May 2010

## **Visual Activities**

Açık L., TURKISH JOURNAL OF BIOLOGY, Journal Publishing, 2007 - 2012

## **Non Academic Experience**

TUBITAK, TÜBİTAK, BİDEB

TUBITAK, BİTO, Turkish Journal of Biology