

## Asst. Prof. CEYDA İÇSEL YILMAZ

### Personal Information

**Email:** cydicsel@uludag.edu.tr

**Web:** <https://avesis.uludag.edu.tr/cydicsel>

### International Researcher IDs

ScholarID: IT8SMYIAAAAJ

ORCID: 0000-0002-2717-2430

Publons / Web Of Science ResearcherID: AAI-3342-2021

ScopusID: 55551960400

Yoksis Researcher ID: 264927

### Education Information

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (Dr), Turkey 2013 - 2016

Postgraduate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (YI) (Tezli), Turkey 2010 - 2013

Undergraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, Kimya Bölümü, Turkey 2005 - 2009

### Dissertations

Doctorate, Piridin bazlı ligantların palladyum (II) ve platin (II) 5,5 dietilbarbitürat komplekslerinin sentezi, yapısal karakterizasyonu, DNA/protein bağlanma ve biyolojik aktivite çalışmaları, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (Dr), 2016

Postgraduate, 2-(hidroksimetil)piridin ve 2-(2-hidroksietil)piridin ligantları içeren palladyum(II) ve platin(II) komplekslerinin sentezi, kristal yapıları, spektroskopik, termik ve DNA bağlanma özellikleri, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (YI) (Tezli), 2013

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Water-soluble copper(II) 5-fluorouracil complexes bearing polypyridyl co-ligands: synthesis, structures and anticancer activity**  
İÇSEL YILMAZ C., YILMAZ V. T., AYGÜN M., Erkisa M., Ulukaya E.  
DALTON TRANSACTIONS, vol.52, no.21, pp.7048-7058, 2023 (SCI-Expanded)
- II. **Novel 5-fluorouracil complexes of Zn(II) with pyridine-based ligands as potential anticancer agents**  
İÇSEL YILMAZ C., YILMAZ V. T., AYGÜN M., Erkisa M., ULUKAYA E.  
DALTON TRANSACTIONS, vol.51, pp.5208-5217, 2022 (SCI-Expanded)
- III. **New manganese(II), iron(II), cobalt(II), nickel(II) and copper(II) saccharinate complexes of 2,6-bis(2-benzimidazolyl)pyridine as potential anticancer agents**  
İÇSEL C., YILMAZ V. T., Aydınlik S., AYGÜN M.  
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.202, 2020 (SCI-Expanded)
- IV. **Zn(ii), Cd(ii) and Hg(ii) saccharinate complexes with 2,6-bis(2-benzimidazolyl)pyridine as promising anticancer agents in breast and lung cancer cell lines via ROS-induced apoptosis**  
İÇSEL C., YILMAZ V. T., Aydınlik S., AYGÜN M.  
DALTON TRANSACTIONS, vol.49, no.23, pp.7842-7851, 2020 (SCI-Expanded)

- V. **Trans-Pd/Pt(II) saccharinate complexes with a phosphine ligand: Synthesis, cytotoxicity and structure-activity relationship**  
 İÇSEL C., YILMAZ V. T., AYGÜN M., Ulukaya E.  
 BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, vol.30, no.9, 2020 (SCI-Expanded)
- VI. **Cytotoxic platinum(II) complexes derived from saccharinate and phosphine ligands: synthesis, structures, DNA cleavage, and oxidative stress-induced apoptosis**  
 İÇSEL C., YILMAZ V. T., Cevatemre B., AYGÜN M., Ulukaya E.  
 JOURNAL OF BIOLOGICAL INORGANIC CHEMISTRY, vol.25, no.1, pp.75-87, 2020 (SCI-Expanded)
- VII. **Synthesis, structures and catalytic activity of Pd(II) saccharinate complexes with monophosphines in direct arylation of five-membered heteroarenes with aryl bromides**  
 YILMAZ V. T., İÇSEL C., Turgut O. R., AYGÜN M., Evren E., ÖZDEMİR İ.  
 INORGANICA CHIMICA ACTA, vol.500, 2020 (SCI-Expanded)
- VIII. **Synthesis, characterization and crystal structures of platinum(II) saccharinate complexes with 1,5-cyclooctadiene**  
 İÇSEL C.  
 TURKISH JOURNAL OF CHEMISTRY, vol.44, no.3, pp.736-745, 2020 (SCI-Expanded)
- IX. **Structures and anticancer activity of chlorido platinum(II) saccharinate complexes with mono- and dialkylphenylphosphines**  
 İÇSEL C., YILMAZ V. T., Cevatemre B., AYGÜN M., Ulukaya E.  
 JOURNAL OF INORGANIC BIOCHEMISTRY, vol.195, pp.39-50, 2019 (SCI-Expanded)
- X. **Pd(II) and Pt(II) saccharinate complexes of bis(diphenylphosphino) propane/butane: Synthesis, structure, antiproliferative activity and mechanism of action**  
 YILMAZ V. T., İÇSEL C., AYGÜN M., Erkisa M., Ulukaya E.  
 EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.158, pp.534-547, 2018 (SCI-Expanded)
- XI. **Palladium(II) and platinum(II) saccharinate complexes with bis(diphenylphosphino)methane/ethane: synthesis, S-phase arrest and ROS-mediated apoptosis in human colon cancer cells**  
 İÇSEL C., YILMAZ V. T., AYGÜN M., Cevatemre B., Alper P., Ulukaya E.  
 DALTON TRANSACTIONS, vol.47, no.33, pp.11397-11410, 2018 (SCI-Expanded)
- XII. **Synthesis, structures and anticancer potentials of platinum(II) saccharinate complexes of tertiary phosphines with phenyl and cyclohexyl groups targeting mitochondria and DNA**  
 YILMAZ V. T., İÇSEL C., Turgut O. R., AYGÜN M., Erkisa M., TÜRKDEMİR M. H., Ulukaya E.  
 EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.155, pp.609-622, 2018 (SCI-Expanded)
- XIII. **Structures and biochemical evaluation of silver(I) 5,5-diethylbarbiturate complexes with bis(diphenylphosphino)alkanes as potential antimicrobial and anticancer agents**  
 YILMAZ V. T., İÇSEL C., Batur J., Aydinlik S., Sahinturk P., AYGÜN M.  
 EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.139, pp.901-916, 2017 (SCI-Expanded)
- XIV. **Synthesis, structures, DNA/protein binding, molecular docking, anticancer activity and ROS generation of Ni(II), Cu(II) and Zn(II) 5,5-diethylbarbiturate complexes with bis(2-pyridylmethyl) amine and terpyridine**  
 YILMAZ V. T., İÇSEL C., Suyunova F., AYGÜN M., Cevatemre B., Ulukaya E.  
 NEW JOURNAL OF CHEMISTRY, vol.41, no.16, pp.8092-8106, 2017 (SCI-Expanded)
- XV. **Synthesis, structures and biomolecular interactions of new silver(I) 5,5-diethylbarbiturate complexes of monophosphines targeting Gram-positive bacteria and breast cancer cells**  
 YILMAZ V. T., İÇSEL C., Batur J., Aydinlik S., CENGİZ M., BÜYÜKGÜNGÖR O.  
 DALTON TRANSACTIONS, vol.46, no.25, pp.8110-8124, 2017 (SCI-Expanded)
- XVI. **A trans-platinum(II) complex induces apoptosis in cancer stem cells of breast cancer**  
 Aztopal N., Karakas D., Cevatemre B., ARI F., İÇSEL C., Daidone M. G., Ulukaya E.  
 BIOORGANIC & MEDICINAL CHEMISTRY, vol.25, no.1, pp.269-276, 2017 (SCI-Expanded)
- XVII. **Synthesis, characterization and structures of solvent-mediated Na(I)-Pd(II) heterometallic complexes containing [Pd(barb)(4)](2-) units (barb=5,5-diethylbarbiturate)**

- İÇSEL C., YILMAZ V. T., BÜYÜKGÜNGÖR O.  
JOURNAL OF COORDINATION CHEMISTRY, vol.69, no.15, pp.2272-2280, 2016 (SCI-Expanded)
- XVIII. **Ni(II)/Cu(II)/Zn(II) 5,5-diethylbarbiturate complexes with 1,10-phenanthroline and 2,2'-dipyridylamine: synthesis, structures, DNA/BSA binding, nuclease activity, molecular docking, cellular uptake, cytotoxicity and the mode of cell death**  
YILMAZ V. T., İÇSEL C., Suyunova F., AYGÜN M., Aztopal N., Ulukaya E.  
DALTON TRANSACTIONS, vol.45, no.25, pp.10466-10479, 2016 (SCI-Expanded)
- XIX. **Cationic Pd(II)/Pt(II) 5,5-diethylbarbiturate complexes with bis(2-pyridylmethyl)amine and terpyridine: Synthesis, structures, DNA/BSA interactions, intracellular distribution, cytotoxic activity and induction of apoptosis**  
İÇSEL C., YILMAZ V. T., Kaya Y., Durmus S., SARIMAHMUT M., BÜYÜKGÜNGÖR O., Ulukaya E.  
JOURNAL OF INORGANIC BIOCHEMISTRY, vol.152, pp.38-52, 2015 (SCI-Expanded)
- XX. **Structural, spectroscopic and quantum chemical studies of acetyl hydrazone oxime and its palladium(II) and platinum(II) complexes**  
Kaya Y., İÇSEL C., YILMAZ V. T., BÜYÜKGÜNGÖR O.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1095, pp.51-60, 2015 (SCI-Expanded)
- XXI. **Anti-growth effect of a novel *trans*-dichloridobis[2-(2-hydroxyethyl)pyridine] platinum (II) complex via induction of apoptosis on breast cancer cell lines**  
ORAL A., Cevatemre B., SARIMAHMUT M., İÇSEL C., YILMAZ V. T., Ulukaya E.  
BIOORGANIC & MEDICINAL CHEMISTRY, no.15, pp.4303-4310, 2015 (SCI-Expanded)
- XXII. **New palladium(II) and platinum(II) 5,5-diethylbarbiturate complexes with 2-phenylpyridine, 2,2'-bipyridine and 2,2'-dipyridylamine: synthesis, structures, DNA binding, molecular docking, cellular uptake, antioxidant activity and cytotoxicity**  
İÇSEL C., YILMAZ V. T., Kaya Y., ŞAMLI H., Harrison W. T. A., BÜYÜKGÜNGÖR O.  
DALTON TRANSACTIONS, vol.44, no.15, pp.6880-6895, 2015 (SCI-Expanded)
- XXIII. **A combined experimental and theoretical investigation of a new imineoxime and its palladium(II) and platinum(II) complexes: Synthesis, structural characterization and spectroscopic properties**  
Kaya Y., İÇSEL C., YILMAZ V. T., BÜYÜKGÜNGÖR O.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.133, pp.93-101, 2014 (SCI-Expanded)
- XXIV. **Synthesis, crystal structures, in vitro DNA binding, antibacterial and cytotoxic activities of new di- and polynuclear silver(I) saccharinate complexes with tertiary monophosphanes**  
YILMAZ V. T., Gocmen E., İÇSEL C., CENGİZ M., YILMAZ SÜSLÜER S., BÜYÜKGÜNGÖR O.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, vol.131, pp.31-42, 2014 (SCI-Expanded)
- XXV. **Palladium(II) and platinum(II) complexes of a new imineoxime ligand - Structural, spectroscopic and DFT/time-dependent (TD) DFT studies**  
Kaya Y., İÇSEL C., YILMAZ V. T., BÜYÜKGÜNGÖR O.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.752, pp.83-90, 2014 (SCI-Expanded)
- XXVI. **Di- and polynuclear silver(I) saccharinate complexes of tertiary diphosphane ligands: synthesis, structures, in vitro DNA binding, and antibacterial and anticancer properties**  
YILMAZ V. T., Gocmen E., İÇSEL C., CENGİZ M., YILMAZ SÜSLÜER S., BÜYÜKGÜNGÖR O.  
JOURNAL OF BIOLOGICAL INORGANIC CHEMISTRY, vol.19, no.1, pp.29-44, 2014 (SCI-Expanded)
- XXVII. **In vitro DNA binding studies of the sweetening agent saccharin and its copper(II) and zinc(II) complexes**  
İÇSEL C., YILMAZ V. T.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, vol.130, pp.115-121, 2014 (SCI-Expanded)
- XXVIII. **Synthesis, structural characterization and cell death-inducing effect of novel palladium(II) and platinum(II) saccharinate complexes with 2-(hydroxymethyl)pyridine and 2-(2-hydroxyethyl)pyridine on cancer cells in vitro**  
ARI F., Aztopal N., İÇSEL C., YILMAZ V. T., Guney E., BÜYÜKGÜNGÖR O., Ulukaya E.  
BIOORGANIC & MEDICINAL CHEMISTRY, vol.21, no.21, pp.6427-6434, 2013 (SCI-Expanded)

- XXIX. **A palladium(II) complex containing both carbonyl and imine oxime ligands: Crystal structure, experimental and theoretical UV-vis, IR and NMR studies**  
Kaya Y., İÇSEL C., YILMAZ V. T., BÜYÜKGÜNGÖR O.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.108, pp.133-140, 2013 (SCI-Expanded)
- XXX. **DNA Binding and Cleavage Studies of Two Palladium(II) Saccharinate Complexes with Terpyridine**  
İÇSEL C., YILMAZ V. T.  
DNA AND CELL BIOLOGY, vol.32, no.4, pp.165-172, 2013 (SCI-Expanded)
- XXXI. **Synthesis, crystal structures, DNA binding and cytotoxicity of two novel platinum(II) complexes containing 2-(hydroxymethyl)pyridine and pyridine-2-carboxylate ligands**  
İÇSEL C., YILMAZ V. T., Gölcü A., Ulukaya E., BÜYÜKGÜNGÖR O.  
BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, vol.23, no.7, pp.2117-2122, 2013 (SCI-Expanded)
- XXXII. **trans-Dichloridopalladium(II) and platinum(II) complexes with 2-(hydroxymethyl)pyridine and 2-(2-hydroxyethyl)pyridine: Synthesis, structural characterization, DNA binding and in vitro cytotoxicity studies**  
İÇSEL C., YILMAZ V. T., ARI F., Ulukaya E., Harrison W. T. A.  
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.60, pp.386-394, 2013 (SCI-Expanded)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Synthesis, Characterization and Structure of Chlorido Platinum(II) Saccharinate Complex Bearing 1,1-Bis(Diphenylphosphino)methane**  
İÇSEL C.  
6th International Conference on New Trends in Chemistry, 16 - 18 October 2020
- II. **Fosfinoplatin(II) Sakkarinat Komplekslerinin Sentezine Yönelik Sentetik Yöntemler**  
İÇSEL C.  
32. Ulusal Kimya Kongresi, Turkey, 17 - 19 September 2020
- III. **Preclinical assessment of a novel palladium-based anticancer drug candidate: Assessing its metabolism, pharmacokinetics and interaction with drug**  
DURMUŞ ERİM S., Ünal O., Khodadust R., İÇSEL C., YILMAZ V. T., Yağcı A., ULUKAYA E., van TELLİGEN O., Şahin O.  
The 21st International Symposium on Microsomes and Drug Oxidations, United States Of America, 2 - 06 October 2016
- IV. **Preclinical Assessment of a Novel Palladium-Based Anticancer Drug Candidate: Assessing Its Pharmacokinetics and Interaction With Drug Transporters**  
DURMUŞ ERİM S., unal o., Khodadust r., İÇSEL C., YILMAZ V. T., yağcı a., ULUKAYA E., van Telligen O., Şahin O.  
Transporter Conference, 11 - 13 May 2016
- V. **Predicting Efficacy Of A Novel Anticancer Drug Candidate In The Scope Of ABC And OATP Drug Transporters**  
DURMUŞ ERİM S., ÜNAL O., KHODADUST R., İÇSEL C., YILMAZ V. T., ACAR F. Y., ŞAHİN Ö., ULUKAYA E.  
3rd INTERNATIONALBAU-DRUG DESIGN CONGRESS, 1 - 03 October 2015
- VI. **Inhibition of sonic hedgehog pathway in breast cancer stem cells does not provide extra benefit in cytotoxicity resulted from Pd(II)-saccharinate complex of terpyridine**  
ULUKAYA E., CEVATEMRE B., KARAKAŞ D., AZTOPAL N., İÇSEL C.  
MedChem 2015, 5 - 10 July 2015
- VII. **One molecule with two faces: solvent dependent activity of the Pd (II) complex determines the form of the function, death or alive?**  
AZTOPAL N., ERKISA M., İÇSEL C., YILMAZ V. T., ULUKAYA E.  
3rd Anticancer Agent Development Congress, 18 - 19 May 2015
- VIII. **Yeni Sentezlenen Trans-dikloridobis[2-(2-hidroksietil)piridin]platin(II) Kompleksinin Meme Kanseri Hücre Soyları Üzerine Sitotoksik/Apoptotik Etkisi**

YILMAZTEPE ORAL A., CEVATEMRE B., SARIMAHMUT M., İÇSEL C., YILMAZ V. T., ULUKAYA E.

3. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Turkey, 20 - 22 March 2015

- IX. **Possible Cross-talk between Hedgehog, Wnt and Notch Pathways Following a Cytotoxic Treatment with Pd(II)-saccharinate complex of terpyridine**  
CEVATEMRE B., KARAKAŞ D., SARIMAHMUT M., Aydınlık Ş., AZTOPAL N., İÇSEL C., ULUKAYA E.  
Focused Joint Meeting for ESRs, COST Action CM1106 Meeting, 19 - 20 January 2015
- X. **Tersiyer Fosfin Ligantı İçeren Polimerik Gümüş(I) Sakkarinat Kompleksinin Sentezi, Kristal Yapısı, DNA Bağlanma ve Biyolojik Aktivite Çalışmaları**  
GÖÇMEN E., İÇSEL C., YILMAZ V. T.  
IV. Ulusal Anorganik Kimya Kongresi, Turkey, 30 May - 02 June 2013
- XI. **2-(Hidroksimetil)piridin ve 2-(2-hidroksietil)piridin ligantları içeren palladyum(II) ve platin(II) komplekslerinin kristal yapıları ve DNA bağlanma özellikleri**  
İÇSEL C., YILMAZ V. T.  
IV. Ulusal Anorganik Kimya Kongresi, Turkey, 30 May - 02 June 2013
- XII. **trans-[Pt(2-mpy)<sub>2</sub>].4H<sub>2</sub>O ve [PtCl(2-pyc)(2-hmpy)].H<sub>2</sub>O komplekslerinin DNA-bağlanma özellikleri**  
İÇSEL C., YILMAZ V. T.  
IV Multidipsiliner Kanser Araştırma Kongresi, Turkey, 13 - 16 December 2012
- XIII. **Piridin varlığındaki palladyum(II) ve platin(II) sakkarinat komplekslerinin sentezi, kristal yapıları, termik ve floresans özellikleri**  
İÇSEL C., GÜNEY E., YILMAZ V. T.  
III. Ulusal Anorganik Kimya Kongresi, Çanakkale, Turkey, 19 - 22 May 2011

## Metrics

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