

## 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 Bilimleri Enstitüsü, Kimya (Dr), Turkey 2013 - 2016

Postgraduate, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 2010 - 2013

Undergraduate, Bursa Uludağ University, Fen-Edebiyat Fakültesi, 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 Bilimleri Enstitüsü, 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 Bilimleri Enstitüsü, Kimya (YI) (Tezli), 2013

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

- I. **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)
- II. **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)
- III. **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)
- IV. **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)

- V. **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)
- VI. **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)
- 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. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- 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. 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)
- XIX. 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)
- XX. 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. Y. , Cevatemre B., SARIMAHMUT M., İÇSEL C., YILMAZ V. T. , Ulukaya E.  
BIOORGANIC & MEDICINAL CHEMISTRY, vol.23, no.15, pp.4303-4310, 2015 (SCI-Expanded)
- XXI. 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)
- XXII. 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)
- XXIII. 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)
- XXIV. 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)
- XXV. 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)
- XXVI. 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)
- XXVII. 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)
- XXVIII. 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)

- XXIX. **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)
- XXX. **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)
- XXXI. **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

Publication: 44

Citation (WoS): 599

Citation (Scopus): 595

H-Index (WoS): 17

H-Index (Scopus): 16