

**Asst. Prof. TUĞRUL ÇAĞRI  
AKMAN**



### Personal Information

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**Address:** Erzincan Binali Yıldırım Üniversitesi Yalnızbağ Yerleşkesi Eczacılık Fakültesi  
Analitik Kimya Anabilim Dalı



### International Researcher IDs

ScholarID: 6Q7mFd8AAAAJ

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Publons / Web Of Science ResearcherID: AED-2056-2022

ScopusID: 57224140829

Yoksis Researcher ID: 256045

### Education Information

Doctorate, Erzincan Binali Yıldırım University, Eczacılık Fakültesi, Analitik Kimya Abd,  
Turkey 2014 - 2019

Undergraduate, Ankara University, Eczacılık Fakültesi, Turkey 2005 - 2010

### Foreign Languages

English, B1 Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, Eğiticilerin Eğitimi, ERZİNCAN BİNALİ YILDIRIM ÜNİVERSİTESİ, 2021

Occupational Health and Safety, İş Sağlığı ve Güvenliği, Erzincan Binali Yıldırım University, 2018

### Dissertations

Doctorate, DEVELOPMENT AND VALIDATION OF QUANTITATIVE ANALYSIS METHODS FOR SINGLE AND COMBINED FORM OF TAMSULOSIN, SILODOSIN AND SOLIFENACIN SUCCINATE IN DIFFERENT MATRICES (BLANK HUMAN PLASMA, PATIENT PLASMA, RAT PLASMA AND PHARMACEUTICAL FORMULATIONS) AND PERFORMING THEIR METABOLOME ANALYSIS, Ataturk University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri, 2019

### Research Areas

Pharmacology and Therapeutics, Analytical Chemistry, Analytical Chemistry, Pharmaceutical Analysis, Chemometry, Chromatographic Analysis, Mass Spectroscopy, Spectroscopical Methods

## Academic Titles / Tasks

Assistant Professor, Erzincan Binali Yildirim University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2020 - Continues

Research Assistant, Erzincan Binali Yildirim University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2016 - 2020

## Academic and Administrative Experience

Fakülte Kurulu Üyesi, Erzincan Binali Yildirim University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2020 - 2021

## Courses

Mezuniyet Projesi Dersi 2, Undergraduate, 2021 - 2022, 2020 - 2021

Uzmanlık Alan Dersi, Postgraduate, 2021 - 2022, 2020 - 2021

Analytical Chemistry Practice 1, Undergraduate, 2021 - 2022

Eczacılığa Giriş ve Terminoloji, Undergraduate, 2021 - 2022

Hastane Eczanesi Stajı 1, Undergraduate, 2021 - 2022, 2020 - 2021

Serbest Eczane Stajı 3, Undergraduate, 2021 - 2022

Hastane Eczanesi Stajı 3, Undergraduate, 2021 - 2022

Serbest Eczane Stajı 2, Undergraduate, 2021 - 2022, 2020 - 2021

Atomic Spectroscopy and Its Applications, Postgraduate, 2021 - 2022

Analytical Chemistry 1, Undergraduate, 2021 - 2022

Analitik Kimya 2, Undergraduate, 2020 - 2021, 2019 - 2020

İlaç Analizlerinde Spektral ve Kromatografik Yöntemler, Postgraduate, 2020 - 2021

Laboratuvar Güvenliği, Undergraduate, 2021 - 2022

Analitik Kimya Lab. 2, Undergraduate, 2020 - 2021, 2019 - 2020

Danışmanlık, Postgraduate, 2021 - 2022, 2020 - 2021

Mezuniyet Projesi Dersi 1, Undergraduate, 2021 - 2022, 2020 - 2021

Analitik Kimya 1, Undergraduate, 2021 - 2022, 2020 - 2021

Analitik Kimya Lab. 1, Undergraduate, 2021 - 2022, 2020 - 2021

Tez Çalışması, Postgraduate, 2021 - 2022

Atomik Absorpsiyon Spektroskopisi, Undergraduate, 2020 - 2021

Genel Kimya, Undergraduate, 2021 - 2022

Farmasötik Analiz ve Validasyon, Undergraduate, 2020 - 2021

Analitik Kimya Lab II, Undergraduate, 2019 - 2020

Ayrırma ve Saflaştırma Teknikleri, Undergraduate, 2020 - 2021

Analitik Kimya II, Undergraduate, 2019 - 2020

## Advising Theses

Akman T. Ç., Sertralinin HPLC yöntemi ile farmasötik preparatlarda tayini, Postgraduate, M.CAN(Student), 2022

## Jury Memberships

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, May, 2024

Post Graduate, Post Graduate, Atatürk Üniversitesi, December, 2023

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, December, 2021

Post Graduate, Post Graduate, Atatürk Üniversitesi, February, 2021

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

- I. **Liquid chromatography–tandem mass spectrometry profile and antioxidant, antimicrobial, antiproliferative, and enzyme activities of *Thymus pectinatus* and *Thymus convolutus*: in vitro and in silico approach**  
Akman T. Ç., Şimşek S., Akşit Z., Akşit H., Aydın A., Tüfekçi A. R., Adem Ş., Yılmaz M. A.  
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol.104, no.7, pp.4039-4049, 2024 (SCI-Expanded)
- II. **Analysis of Isotretinoin-Induced Alterations in the Levels of Plasma Trace Elements: Investigation of the Relationship Between Magnesium, Phosphorus, Potassium, Zinc, and Treatment-Related Side Effects.**  
Akman T. Ç., Yazici M., Atila A., Mertoglu C.  
Biological trace element research, 2024 (SCI-Expanded)
- III. **A Novel Method for Determination of Cyclobenzaprine in the Different Matrixes by UHPLC-DAD: Application to Real Human Plasma and Pharmaceutical Formulations**  
Akman T. Ç.  
JOURNAL OF CHROMATOGRAPHIC SCIENCE, vol.1, no.1, pp.1-9, 2023 (SCI-Expanded)
- IV. **LC-ESI-MS/MS Chemical Characterization, Antioxidant and Antidiabetic Properties of Propolis Extracted with Organic Solvents from Eastern Anatolia Region**  
Akman T. Ç., Şimşek S., Kayir Ö., Akşit Z., Akşit H., Genc N.  
Chemistry and Biodiversity, vol.20, no.5, 2023 (SCI-Expanded)
- V. **Metabolomics approach: Interpretation of changes in rat plasma metabolites after solifenacin treatment**  
AKMAN T. Ç., KADIOĞLU Y., ŞENOL O., ERKAYMAN B.  
Brazilian Journal of Pharmaceutical Sciences, vol.58, 2022 (SCI-Expanded)
- VI. **The serum amino acid profile in COVID-19.**  
Atila A., Alay H., Yaman M. E., Akman T. Ç., Cadirci E., Bayrak B., Celik S., Atila N. E., Yaganoglu A. M., Kadioglu Y., et al.  
Amino acids, vol.53, pp.1569-1588, 2021 (SCI-Expanded)
- VII. **A Sensitive UPLC-MS/MS Method for the Determination of Flurbiprofen in Rat Plasma: Application to Real Sample.**  
Yaman M. E., Atila A., Akman T. Ç., Albayrak M., Kadioglu Y., Halici Z.  
Journal of chromatographic science, vol.59, pp.502-509, 2021 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Exploring the potential of *Psephellus huber-morathii* (Wagenitz) Wagenitz: A comprehensive UHPLC-MS/MS analysis of phytochemical composition and evaluation of antioxidant, antimicrobial, and antiproliferative activities**  
Akman T. Ç., Şimşek S., Akşit Z., Aydın A., Yılmaz M. A.  
KSU TARIM VE DOGA DERGISI-KSU JOURNAL OF AGRICULTURE AND NATURE, vol.27, no.4, pp.782-792, 2024 (ESCI)
- II. **Understanding the side effects of chronic silodosin administration via untargeted metabolomics approach Comprendre les effets secondaires de l'administration chronique de silodosine via une approche métabolomique non ciblée**  
AKMAN T. Ç., KADIOĞLU Y., ŞENOL O., ERKAYMAN B., AYDIN İ. Ç.  
Annales Pharmaceutiques Francaises, 2024 (ESCI)
- III. **Development and Validation of a Rapid and Sensitive Ultrahigh-Performance Liquid Chromatography with Diode Array Detection Method for Quantification of Sertraline in Pharmaceutical Formulations**

BEBEK M. C., AKMAN T. Ç.

Pharmata, vol.4, no.1, pp.7-13, 2024 (Peer-Reviewed Journal)

- IV. **A metabolomics study: Could plasma metabolites be a guide for the prevention of tamsulosin side effects? Une étude métabolomique: les métabolites plasmatiques pourraient-ils être un guide pour la prévention des effets secondaires de la tamsulosine ?**  
AKMAN T. Ç., KADIOĞLU Y., ŞENOL O., ERKAYMAN B.  
Annales Pharmaceutiques Francaises, vol.81, no.2, pp.220-232, 2023 (ESCI)
- V. **Does the balance of nitric oxide and L-arginine play a role in the development of allergic rhinitis?**  
EFE ATİLA N., AKMAN T. Ç., ASLAN O. N.  
The Injector, vol.1, no.2, pp.60-69, 2022 (Peer-Reviewed Journal)
- VI. **Optimization of HPLC-FLD Conditions Using Analytical Quality by Design Approach for Quantification of Silodosin in Pharmaceutical Dosage Form**  
Yaman M. E., Akman T. Ç.  
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.14, no.3, pp.993-1005, 2021 (Peer-Reviewed Journal)
- VII. **Classification and Categorization of Allium Erzincanicum (N. Özhatay & Kandemir) Endemic Plant of Erzincan By Determination of Its Antioxidant Activity**  
Tuna Yıldırım S., Akman T. Ç., Yaman M. E., Kadioğlu Y., Kandemir A.  
Türk Farmakope Dergisi, vol.6, no.1, pp.16-29, 2021 (Peer-Reviewed Journal)
- VIII. **Determination of Solifenacin Succinate in Human Plasma and Pharmaceutical Formulations Using HPLC-UV**  
Akman T. Ç., Kadioğlu Y.  
Bioorganic & Medicinal Chemistry Reports, vol.2, no.1, pp.15-23, 2019 (Peer-Reviewed Journal)
- IX. **Determination of Etodolac in Commercial Formulations by HPLC-UV Method**  
Akman T. Ç., Kadioğlu Y.  
International Journal of Trend in Scientific Research and Development (IJTSRD), vol.4, no.1, pp.128-132, 2019 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Essential oil composition of Ziziphora clinopodioides (Kırnanesi) from Erzincan region, Turkey**  
AKMAN T. Ç.  
5th International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 23 November 2022
- II. **Pharmacometabolic Profiling of Solifenacin on Rat Plasma**  
Akman T. Ç., Kadioğlu Y., Şenol O., Erkayman B.  
2. International Congress on Analytical and Bioanalytical Chemistry-ICABC 2020, Antalya, Turkey, 11 - 14 March 2020, pp.106-107
- III. **METABOLIC PROFILING OF SILODOSIN ON UNILATERAL OBSTRUCTED RAT URETER**  
AKMAN T. Ç., KADIOĞLU Y., ŞENOL O., ERKAYMAN B.  
International Multidisciplinary Symposium on Drug Research & Development (DRD 2019), Malatya, Turkey, 1 - 03 July 2019, pp.243-244
- IV. **Determination and validation of solifenacin in pure and pharmaceutical dosage forms via HPLC-UV**  
Akman T. Ç., Atıla A., Şenol O., Yaman M. E., Kadioğlu Y.  
12th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 26 - 29 June 2018, vol.122, no.625, pp.275
- V. **Determination and Validation of Silodosin in Pure and Pharmaceutical Dosage Forms by HPLC-UV Method.**  
AKMAN T. Ç., ATİLA A., ŞENOL O., YAMAN M. E., KADIOĞLU Y.  
the 12th International Symposium on Pharmaceutical Sciences (ISOPS), Ankara, Turkey, 26 - 29 June 2018, pp.1
- VI. **Erzincan Üniversitesi Eczacılık Fakültesi Lisans Eğitim Programının EczÇEP-2015 ve Bologna Sürecine Uyum Çalışmaları**

Tuna Yıldırım S., Şirinazade H., Polat M. F., Dilek E., Çetin G., Sunar S., Kılıç E., İbişoğlu B., Akman T. Ç., Polat E. C., et al.  
3. Uluslararası İlaç ve Eczacılık Kongresi, İstanbul, Turkey, 26 - 29 April 2017, pp.930

**VII. Silodosin etken maddesinin farmasötik preparatlarda analizine yönelik bir HPLC-FD yönteminin tasarımı kalite yaklaşımıyla optimizasyonu ve validasyonu**

İSPİR F. B., ŞUŞOĞLU E. B., KIZILTAŞ N., AKMAN T. Ç., YAMAN M. E., KOÇAK Ö. F., KADIOĞLU Y.

3. Uluslararası İlaç ve Eczacılık Kongresi, İstanbul, Turkey, 26 - 29 April 2017, vol.P-0546, pp.886

**VIII. Rhenum Ribes (Işkın) Bitkisinin Metanol Ekstresinin CUPRAC Yöntemiyle Analizi**

ŞENOL O., ÇÖMEZ A., AKMAN T. Ç., KADIOĞLU Y.

3. Uluslararası İlaç ve Eczacılık Kongresi, İstanbul, Turkey, 26 - 29 April 2017, vol.P-0287, pp.810

## Supported Projects

AKMAN T. Ç., YAZICI M., ATILA A., Project Supported by Higher Education Institutions, İzotretinoin Tedavisi Uygulanan Akne Vulgaris Hastalarının Metabolit Amino Asit ve Eser Element Düzeylerinin Değerlendirilmesi, 2021 - 2023

Akman T. Ç., Kadioğlu Y., Project Supported by Higher Education Institutions, Tamsulosin, Silodosin Ve Solifenasin Süksinatın Tekli Ve Kombine Kullanımında Farklı Ortamlarda (Boş İnsan Plazması, Hasta Plazması, Rat Plazması Ve Farmasötik Preparatlarda) Miktar Tayin Yöntemlerinin Geliştirilip, Valide Edilmesi Ve Metabolom Analizlerinin Yapılması, 2019 - 2021

Kandemir A., Gümüşel B., Gümüşel B., Gürsoy R. N., Kartal M., Köksal E., Erkekoğlu Ü. P., Korkmaz M., Sabuncuoğlu S., Altay A., et al., Project Supported by Other Official Institutions, Erzincan Tıbbi ve Aromatik Bitkilerinin Yerel Ekonomiye Kazandırılması, 2018 - 2019

TUNA YILDIRIM S., AKMAN T. Ç., KADIOĞLU Y., KANDEMİR A., ŞENOL O., YAMAN M. E., KAYA E. N., Project Supported by Higher Education Institutions, Erzincan Yöresine Ait Allium Erzincanicum Bitkisinin Fenolik İçerik ve Antioksidan Kapasitesinin Tayin Edilerek Sınıflandırılması ve Karakterizasyonu, 2015 - 2019

## Scientific Refereeing

Project Supported by Higher Education Institutions, BAP Research Project, Erzincan Binali Yıldırım University, Turkey, August 2021

## Tasks In Event Organizations

Akman T. Ç., Tuna Yıldırım S., Özli G., Aydın B., Polat E. C., Erzincan Tıbbi Ve Aromatik Bitkiler Arama Çalıştayı, Workshop Organization, Erzincan, Turkey, Şubat 2017

## Metrics

Publication: 24

Citation (Scopus): 53

H-Index (Scopus): 3

## Congress and Symposium Activities

5th International Eurasian Conference on Biological and Chemical Sciences, Attendee, Ankara, Turkey, 2022

2. International Congress on Analytical and Bioanalytical Chemistry-ICABC 2020, Attendee, Antalya, Turkey, 2020

The 12th International Symposium on Pharmaceutical Sciences (ISOPS), Attendee, Ankara, Turkey, 2018

International Multidisciplinary Symposium On Drug Research and Development, Attendee, Erzurum, Turkey, 2017

Kozmetik Sempozyumu 2017, Attendee, Erzurum, Turkey, 2017

Farmakon 2017, Attendee, Erzurum, Turkey, 2017

Obezite, Diyabete Giden Yolda Fruktöz Şurubu, Attendee, Erzurum, Turkey, 2017

Erzincan Tıbbi ve Aromatik Bitkiler Arama Çalıştayı, Attendee, Erzincan, Turkey, 2017

## **Awards**

Atila A., Akman T. Ç., Sevinç Özakar R., Özakar E., Yaman M. E., Kadioğlu Y., Çevrimiçi Sergi, Uluslararası Buluş Yarışması Ve Girişimcilik Hızlandırma Programı- Gümüş Madalya, Türk Patent Ve Marka Kurumu / 5. İstanbul Uluslararası Buluş Fuarı (Isıf'20), September 2020

## **Non Academic Experience**

University, Erzincan Binali Yıldırım Üniversitesi, Eczacılık Fakültesi

University, Erzincan Binali Yıldırım Üniversitesi, Eczacılık Fakültesi

University, Erzincan Binali Yıldırım Üniversitesi, Eczacılık Fakültesi

University, Erzincan Binali Yıldırım Üniversitesi, Eczacılık Fakültesi

University, Erzincan Binali Yıldırım Üniversitesi, Eczacılık Fakültesi

University, Erzincan Binali Yıldırım Üniversitesi, Eczacılık Fakültesi