

## Prof. KADRIYE SORKUN

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### Education Information

Doctorate, Hacettepe University, Mesef, Botanik, Turkey 1976 - 1982

Postgraduate, Hacettepe University, Fen Fakültesi Biyoloji Bölümü, Turkey 1971 - 1976

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Agricultural Sciences, Agriculture

### Academic Titles / Tasks

Professor, Hacettepe University, Fen Fakültesi, Biyoloji Bölümü, 1996 - 2011

### Academic and Administrative Experience

Hacettepe Üniversitesi, Fen Fakültesi, Biyoloji Bölümü, 2009 - Continues

### Advising Theses

SALİH B., SORKUN K., Azerbaycan Gence Kazak bölgesi ballarının mikroskopik, HPLC ve GC-MS analizleri ile içeriklerinin belirlenmesi, Doctorate, D.NUR(Student), 2017

SORKUN K., Carthamus tinctorius L. (Aspir) üzerinde tozlaştırıcı arı davranışları ve ürün özelliklerinin incelenmesi, Doctorate, Ç.ÖZENİRLER(Student), 2016

SORKUN K., Hakkari bölgesi propolislerinin botanik orijininin ve kimyasal içeriğinin saptanması, Doctorate, N.ECEM(Student), 2015

SORKUN K., Ardahan ili ballarının melitopalinojik, fiziksel ve kimyasal analizi, Postgraduate, F.GÜZEL(Student), 2014

SORKUN K., Ardahan bölgesinde bal arıları tarafından toplanan polenlerin morfolojik ve organoleptik analizleri ile nişasta içeriklerinin incelenmesi, Postgraduate, D.CANLI(Student), 2014

SORKUN K., Ayder-Ceymakçur (Çamlıhemşin/Rize) yaylalarının florası ve yöre ballarının kimyasal ve palinojik özellikleri, Postgraduate, E.DEMİR(Student), 2013

SORKUN K., Türkiye'deki bazı yöresel bal çeşitlerinin antimutajenik etkilerinin Salmonella/mikrozom (AMES) test sistemi ile araştırılması, Postgraduate, N.EKMEKÇİ(Student), 2010

SALİH B., SORKUN K., Tekirdağ bölgesi propolis örneklerinin flavonoid, karboksilik asit ve türevlerinin izolasyon yöntemlerinin geliştirilmesi ve mikroskopik analizi, Doctorate, Ö.GENÇAY(Student), 2010

SORKUN K., Muğla bölgesinde üretilen çam balı ve propolisin mikroskopik, organoleptik ve kimyasal analizi, Doctorate, A.ÖZKÖK(Student), 2009

SALİH B., SORKUN K., Ambalajlı balların melitopalnolojik, kimyasal ve organoleptik analizleri, Postgraduate, D.NUR(Student), 2007

SALİH B., SORKUN K., Kemaliye-Erzincan yöresinde üretilen balların mikroskopik, kimyasal ve organoleptik analizleri ile balın fizikokimyasal özelliklerinin saptanması, Postgraduate, N.YURTSEVER(Student), 2004

SALİH B., SORKUN K., Kemaliye-Erzincan yöresine ait propolislerin bitkisel orijini ve kimyasal içeriğinin belirlenmesi, Postgraduate, Ö.GENÇAY(Student), 2004

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

- I. **Characterization of Turkish pine honey according to their geographical origin based on physicochemical parameters and chemometrics**  
Uçurum H. Ö., Tepe Ş., Yeşil E., Güney F., Karakuş S., KOLAYLI S., Takma Ç., Duru M. E., ÖZKÖK A., Yücel B., et al.  
European Food Research and Technology, vol.249, 2023 (SCI-Expanded)
- II. **Bee bread and bee pollen of different plant sources: determination of phenolic content, antioxidant activity, fatty acid and element profiles**  
Mayda N., ÖZKÖK A., Ecem Bayram N., Gercek Y. C., SORKUN K.  
JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION, vol.14, no.4, pp.1795-1809, 2020 (SCI-Expanded)
- III. **Honeydew producing insects in some forests of Turkey and their potential to produce of honeydew honey**  
ÜLGENTÜRK S., Cosic B., Ozdemir I., Ipek A., SORKUN K.  
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- IV. **THE ORIGIN OF THE OAK HONEYDEW HONEY PRODUCED FROM QUERCUS FRINETTO TEN**  
ÖZKÖK A., Ipek A., Sorkun K.  
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- V. **Chemical Characterization of 64 Propolis Samples from Hakkari, Turkey**  
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- VI. **DIOXIN ANALYSIS OF BEE POLLEN PELLETS COLLECTED BY APIS MELLIFERA L. IN RURAL AREA OF TURKEY**  
ÖZKÖK A., Cakirogullari G. C., Sorkun K., Yagli H. G., Alsan I., Bektas B., Kilic D.  
JOURNAL OF APICULTURAL SCIENCE, vol.62, no.1, pp.79-88, 2018 (SCI-Expanded)
- VII. **Melissopalynological Analysis for Geographical Marking of Kars Honey**  
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- VIII. **THE ANATOMICAL AND PALYNOLOGICAL FEATURES OF SCREE PLANT HELDREICHIA ROTUNDIFOLIA BOISS.(BRASSICACEAE) ENDEMIC TO TURKEY**  
KIZILPINAR TEMİZER İ., gençay çelemli ö., ZARE G., SORKUN K.  
Fresenius Environmental Bulletin, vol.27, pp.236-240, 2018 (SCI-Expanded)
- IX. **CHEMICAL CHARACTERIZATION OF KARS HONEY**  
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- X. **CLASSIFICATION OF TURKISH HONEY BY H-1 NMR SPECTROSCOPY AND CHEMOMETRICS**  
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- XI. **CHARACTERISTIC FEATURES OF OAK (QUERCUS FRAINETTO TEN.) HONEY FROM TURKEY**  
ÖZKÖK A., Sorkun K.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.27, no.12, pp.8359-8366, 2018 (SCI-Expanded)
- XII. **Does propolis have any effect on non-alcoholic fatty liver disease?**  
Kismet K., Ozcan C., Kuru S., GENÇAY ÇELEMLİ Ö., Celepli P., Senes M., Guclu T., SORKUN K., Hucumenoglu S., Besler T.  
BIOMEDICINE & PHARMACOTHERAPY, vol.90, pp.863-871, 2017 (SCI-Expanded)
- XIII. **Antibacterial Activity of Propolis versus Conventional Endodontic Disinfectants against Enterococcus faecalis in Infected Dentinal Tubules**  
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JOURNAL OF ENDODONTICS, vol.37, no.3, pp.376-381, 2011 (SCI-Expanded)
- XIV. **The effect of oral honey and pollen on postoperative intraabdominal adhesions**  
Celepli S., Kismet K., Kaptanoglu B., Erel S., Ozer S., Celepli P., Kaygusuz G., Devrim E., Gencay Ö., SORKUN K., et al.  
TURKISH JOURNAL OF GASTROENTEROLOGY, vol.22, no.1, pp.65-72, 2011 (SCI-Expanded)
- XV. **Antibacterial activity of bee propolis samples from different geographical regions of Turkey against two foodborne pathogens, Salmonella Enteritidis and Listeria monocytogenes**  
Temiz A., Sener A., Tuylu A., SORKUN K., SALİH B.  
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- XVI. **Propolis from Turkey induces apoptosis through activating caspases in human breast carcinoma cell lines**  
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- XVII. **Inhibitory Effects of Propolis on Human Osteogenic Sarcoma Cell Proliferation Mediated by Caspase Pathway**  
Kurt F. O., Vatansever H. S., SORKUN K., Gurhan S. I. D., Turkoz E., Gencay O., SALİH B.  
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- XVIII. **In Vitro Activity of Turkish Propolis Samples Against Anaerobic Bacteria Causing Oral Cavity Infections**  
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- XIX. **Immunomodulatory effects of Turkish propolis: Changes in neopterin release and tryptophan degradation**  
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IMMUNOBIOLOGY, vol.214, no.2, pp.129-134, 2009 (SCI-Expanded)
- XX. **Effects of Manisa propolis on telomerase activity in leukemia cells obtained from the bone marrow of leukemia patients**  
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INTERNATIONAL JOURNAL OF FOOD SCIENCES AND NUTRITION, vol.60, no.7, pp.601-605, 2009 (SCI-Expanded)
- XXI. **The effects of scolicedal agent propolis on liver and biliary tree**  
Kismet K., Kilicoglu S. S., Kilicoglu B., Erel S., Gencay Ö., SORKUN K., Erdemli E., AKHAN O., Akkus M. A., Sayek I.  
JOURNAL OF GASTROINTESTINAL SURGERY, vol.12, no.8, pp.1406-1411, 2008 (SCI-Expanded)
- XXII. **Effects of honey as a scolicedal agent on the hepatobiliary system**  
Kilicoglu B., Kismet K., Kilicoglu S. S., Erel S., Gencay Ö., SORKUN K., Erdemli E., AKHAN O., Akkus M. A., Sayek I.  
WORLD JOURNAL OF GASTROENTEROLOGY, vol.14, no.13, pp.2085-2088, 2008 (SCI-Expanded)
- XXIII. **The effect of pollen on some reproductive parameters of male rats**  
Selmanoglu G., Hayretoglu S., Kolankaya D., Tueylue A. O., Sorkun K.  
TOXICOLOGY LETTERS, vol.172, 2007 (SCI-Expanded)
- XXIV. **Pollen preferences of Hoplosmia bidentata and Lithurgus cornutus (Hymenoptera : Megachilidae)**  
Gueler Y., Sorkun K.  
ENTOMOLOGICA FENNICA, vol.18, no.3, pp.174-178, 2007 (SCI-Expanded)
- XXV. **In vitro antimicrobial activity of propolis samples from different geographical origins against certain**

### **oral pathogens**

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**XXVI. The scolicial effects of honey**

Kilicoglu B., Kismet K., Koru O., Tanyuksel M., Oruc M. T., Sorkun K., Akkus M. A.

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**XXVII. The effect of pollen on serum parameters of rats**

Selmanoglu G., Hayretdag S., Kolankaya D., Tuylu A. O., Sorkun K.

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**XXVIII. The effect of Trifolium, Raphanus, and Cistus pollen grains on some blood parameters and mesentery mast cells**

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**XXIX. Evaluation on scolicial efficacy of propolis**

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**XXX. In vitro antimicrobial activity of propolis against methicillin-resistant Staphylococcus aureus and vancomycin-resistant Enterococcus faecium**

Kilic A., Baysallar M., Besirbellioglu B., Salih B., Sorkun K., Tanyuksel M.

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**XXXI. Chemical compositions and antimicrobial activities of four different Anatolian propolis samples**

Uzel A., Sorkun K., Oncag O., Cogulu D., Gencay Ö., Salih B.

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**XXXII. Effect of some Turkish propolis on the product quantity of Agaricus bisporus (Lange.) Sing**

Guler P., Sorkun K., Salih B.

PAKISTAN JOURNAL OF BOTANY, vol.35, no.3, pp.439-447, 2003 (SCI-Expanded)

**XXXIII. Protective effects of Turkish propolis on alcohol-induced serum lipid changes and liver injury in male rats**

Kolankaya D., SELMANOGLU G., SORKUN K., SALIH B.

FOOD CHEMISTRY, vol.78, no.2, pp.213-217, 2002 (SCI-Expanded)

**XXXIV. Determination of chemical composition of Turkish propolis**

Sorkun K., Suer B., Salih B.

ZEITSCHRIFT FUR NATURFORSCHUNG C-A JOURNAL OF BIOSCIENCES, vol.56, pp.666-668, 2001 (SCI-Expanded)

**XXXV. Propolis from the mediterranean region: Chemical composition and antimicrobial activity**

Velikova M., BANKOVA V., Sorkun K., Houcine S., Tsvetkova I., Kujumgiev A.

ZEITSCHRIFT FUR NATURFORSCHUNG C-A JOURNAL OF BIOSCIENCES, vol.55, pp.790-793, 2000 (SCI-Expanded)

**XXXVI. The source of starch grains from Turkish pine honey**

Sorkun K., Sahin A.

JOURNAL OF APICULTURAL RESEARCH, vol.39, pp.85-86, 2000 (SCI-Expanded)

## **Articles Published in Other Journals**

**I. Total Bioactive Compounds and Antimicrobial Capacities of Bee Pollen with Different Botanical Origins**

ÖZKÖK A., Koru O., Bedir O., Cetinkaya S., GENÇAY ÇELEMLİ Ö., ÖZENİRLER Ç., Mayda N., SORKUN K.

BULLETIN OF UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE CLUJ-NAPOCA-FOOD SCIENCE AND TECHNOLOGY, vol.78, no.1, pp.57-67, 2021 (ESCI)

**II. The correlation between botanical source and the biologically active compounds of propolis**

- Celemlı Ö., ATAKAY M., Sorkun K.  
ISTANBUL JOURNAL OF PHARMACY, vol.49, no.2, pp.81-87, 2019 (ESCI)
- III. **Physicochemical and Palynological Characterization of the Onobrychis Miller (Fabaceae) Honey**  
ÖZENİRLER Ç., Gençay Çelemlı Ö., ECEM BAYRAM N., DİKMEN F., ZARE G., ÇELİKBIÇAK Ö., SORKUN K.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.32, no.1, pp.63-76, 2019 (ESCI)
- IV. **DANDELION HONEY: A NEW MONOFLORAL HONEY RECORD FORTURKEY**  
Özenirler Ç., Mayda N., Gençay Çelemlı Ö., Özkök A., Sorkun K.  
Uludağ Arıcılık Dergisi, vol.18, pp.87-93, 2018 (Peer-Reviewed Journal)
- V. **Observations on the foraging behavior of commercial Bombus terrestris L. and Apis mellifera L. colonies on some cultivars of Carthamus tinctorius L. in caged conditions**  
ÖZENİRLER Ç., SORKUN K.  
Commun.Fac.Sci.Univ.Ank.Series C, vol.27, pp.273-282, 2018 (Peer-Reviewed Journal)
- VI. **A New Record for Propolis Substitute: Pruning Sealer**  
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- VII. **CHEMOMETRIC EVALUATION OF THE GEOGRAPHICAL ORIGIN OF TURKISH PINE HONEY**  
ÖZKÖK A., YÜKSEL D., SORKUN K.  
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- VIII. **Evaluating honey bee products as an indicator of managed pollination studies: a case study about allium cepa l.**  
ÖZENİRLER Ç., MAYDA N., GENÇAY ÇELEMLİ Ö., ÖZKÖK A., SORKUN K.  
Communications/ Faculty of Sciences University of Ankara Series C: Biology and Geological Engineering and Geophysical Engineering, vol.27, no.2, pp.115-119, 2018 (Peer-Reviewed Journal)
- IX. **Monofloral Features of Turkish Honeys According to Melissopalynologic, Total Phenolic and Total Flavonoid Content**  
ÖZKÖK A., ÖZENİRLER Ç., Canlı D., Mayda N., Sorkun K.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.31, no.3, pp.713-723, 2018 (ESCI)
- X. **Plant Origins of Propolis from Hakkari, Turkey**  
Ecem Bayram N., SORKUN K., Cevahir Oz G.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.31, no.3, pp.725-738, 2018 (ESCI)
- XI. **Protein Analysis of AnzerBee Pollen by Bradford Method**  
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- XII. **Effects of propolis on warfarin efficacy**  
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- XIII. **Castanea sativa A Source of Turkish Propolis: Plant Anatomy, Palynology and Chemistry**  
GENÇAY ÇELEMLİ Ö., KIZILPINAR TEMİZER İ., ZARE G., SORKUN K.  
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- XIV. **Sugar Analysis of Pine Honey from Muğla Region using HPLC**  
ÖZKÖK A., SORKUN K., Darcy B.  
Mellifera, vol.14, pp.27-32, 2014 (Peer-Reviewed Journal)
- XV. **Palynological Investigation of Honey Produced In Ardahan-Turkey**  
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- XVI. **Çiçekten Kovana Taşınan Balın Antibiyotik Değeri**  
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- XVII. **Determination of Major Compounds in Some Turkish Propolis**  
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- XVIII. **The Plant Choices of Honey Bees to Collect Propolis in Tekirdag Turkey**  
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- XIX. **Antitumor activity of propolis on differentiated cancer cell lines**  
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- XX. **Effects of propolis on mycelium development and growth of the Agaricus bitorquis Quel Saccardo**  
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- XXI. **Total Phenolic Acid and Total Flavonoid Content of Turkish Pine Honeydew Honey.**  
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- XXII. **The Effect of Pollen on Some Reproductive Parameters of Male Rats**  
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- XXIII. **Ex Vivo Effects of Turkish Propolis Extracts on Erythrocyte Superoxide dismutase and Catalase Activities**  
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- XXIV. **An Investigation of Mineral Content of Economically Important Pollen Grains Collected by Apis mellifera L. in the Province of Bursa, Turkey**  
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- XXV. **Organoleptic Analysis of Pine Honeys Produce in Muğla**  
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- XXIX. **THE DETERMINATION OF A PARASITE OF HONEY BEE (APIS MELLIFERA L.) "NOSEMA APIS Z." IN HONEY**  
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- XXX. **Microscopic Analysis of Propolis Samples Colected from East Anatolia Kemaliye Erzincan**  
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- XXXI. **Protein Analysis with Kjeldahl of Pollen Grains Collected by Apis mellifera L.**  
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- XXXIII. **Türkiye’de üretilen doğal ve yapay balların ayırt edilmesinde 10 gram baldaki toplam polen sayısının (TPS) önemi**  
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- XXXIV. **Physical, chemical and microscopic analysis in distinguishing natural and artificial honey produced in Turkey**  
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- XXXVI. **Türkiye’nin Ege, Marmara, Akdeniz ve Karadeniz Bölgelerinde toplanmış ballarda polen analizi**  
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