## **Records of Agricultural and Food Chemistry**

A scientific open access journal in the field of agricultural and food chemistry.

Volume: 4 Year: 2024 Issue: 3 Special Issue: Abstracts 3rd. TCS, International Food Chemistry Congress February 29-March 03,2024 Antalya Türkiye



Photo by Fevzi Özgökçe



## **Records of Agricultural and Food Chemistry**

Volume: 4 Year: 2024

Issue: 3 Special Issue: Abstracts 3rd. TCS, International Food Chemistry Congress February 29-March 03,2024

### **Editor-in chief**

Editor-in-Chief Mehmet Öztürk

Book Review Editor Turgut Kılıç

Editor: Food Science and Technology Murat Taşan

Co-Editor-in Chief Ahmet C Goren

### **Editors**

Abdurrahim Kocyigit Maged S. Abdel-kader Abdel-kader

Muhammet Arıcı Riadh Ben Mansour

M. Iqbal Choudhary Mehmet Emin Duru

Bouchra El Amiri Abdulselam Ertas

Ahmet C **Gören** Mudassar **Iqbal** 

Zahia **Kabouche** Murat **Kartal** 

Turgut **Kılıç** Mehmet **Ozturk**Veronique **Seidel** William N. **Setzer** 

Adel **Shehata** Murat **Taşan** 

Tamer **Üstuner** Balakyz **Yeskaliyeva** 

## **Language Editors**

## **Abstracting & Indexing**

Records of Agricultural and Food Chemistry is abstracted and Indexed in: Chemical Abstracts Service (CAS), ProQuest; EBSCOhost, Google Scholar.

#### **Publisher**

### ACG Yayıncılık Basın Yayın Sanayi ve Ticaret Limited Şirketi

Yenikent Mahallesi, Fırat Caddesi, 1/3, Gebze, Kocaeli, İstanbul, Türkiye +90 850 305 05 72 - www.acgpubs.org - info@acgpubs.org

2024© ACG Publications. All Rights Reserved

### **Instruction For Authors**

Agriculture and Food has been an interesting nutrient for human beings up to date. Food production has also become important with the increment of population. Everyone prefers good quality food having high nutritional value and long shelf life. The safe foods on which have been searched by the researchers will be investigated in the future, as well. Briefly, humanity will always be interested in what they are eating.

Potential topics include, but are not limited to:

- Agriculture-plant protection, weeds, plant disease, pests and control methods
- The novel chromatographic methods to determine both major and minor components of food(s) and medicinal plant(s) especially nutrients and/or bioactive compounds
- · The chemotaxonomy of molecules in food(s) or medicinal plant(s)
- · Analysis of the flavors and the essential oils of the food(s) or medicinal plant(s), chemistry relating to major and minor components of food(s)

## **Records of Agricultural and Food Chemistry**

Volume: 4 Year: 2024

Issue: 3 Special Issue: Abstracts 3rd. TCS, International Food Chemistry Congress February 29-March 03,2024

- · The chemical composition of the food(s) or medicinal plant(s)
- · Fast screening and analysis of bioactive ingredients of food(s), including antioxidants, anticancer, anti-diabetes, immunomodulatory, anti-inflammatories, anti-microbial, polysaccharides and other phytochemicals
  - The structural changes in the molecule(s) during or after food processing, food distribution and food local conditions
  - Determination of food quality and safety and by-products, and the processing wastes
  - Analysis of food contaminants, additives, and other agro-chemicals
  - The inter-comparison studies of the results of methods to develop food reference materials of food components to be able to be used in the developed assays
  - Determination of origin and authentication studies. Verification of organic, biological and ecological labeling of food(s) or medicinal plant(s) including origin labeling of honeys.
  - The production of chemicals from natural origin in industrial scale studies will also be considered.

#### **Audiences:**

Food engineers, Food technologists, Farmers, Agriculture, Chemist's, Toxicologists, and Researchers of the pharmaceutical and Food industries.

#### **Preparation of Manuscripts**

Manuscripts should be prepared in English using a word processor.

Authors are **must** use templates (<u>Template file for original article:Please click to open template file</u>) or (<u>Template file for short report:Please click to open template file</u>) for the preparation of manuscripts. The template offers the authors many features that ease manuscript preparation and submission; all graphics and Tables can be integrated into the manuscript where author wishes to place them. Requested supporting information must be prepared as shown in the <u>template of supporting information:Please click to open template file</u>.

The essential oil and fatty acids and related papers should be prepared according to requested rules of international standards such as RRI value report.

**Novelty statements** of submitted manuscripts must be provided as MS word file item by item. The maximum item should be 6 for the novelty statement.

**A graphical abstract** must be provided during submission. The dimensions of the graphical abstract must be 6.5 cm (h) x 12.5 cm (l). Please do not use the portrait version of graphical abstract. The graphical abstract must briefly show the contents of the abstract. Only structure of compound or picture of species not allowed for the graphical abstract.

**For new compounds:** New compounds search report of SciFinder should also be uploaded via the supporting information document system in PAMS.

**Review Articles** are critically evaluated on the specific area in natural product chemistry. If you would like to contribute to the journal with a review article, the authors must initially contact the editorial office by email to info@acgpubs.org, as such articles are normally invited.

Original Articles are manuscripts describing original full length research papers in the field of agricultural and food chemistry area that have not published previously on the food and agricultural products and technologies, as well as new analytical methods (analytical methods must include method validation and uncertainty evaluation parts in the main text and the details must be given in the supporting information file), chemotaxonomic investigations, chemical ecology, and biotechnology. These manuscripts should reflect completed investigations rather than fragmentary parts of a larger study. In order to reduce manuscript length, specific experimental details, spectral data and repeated experimental parts should be prepared as supporting information.

Short Reports are suitable for reporting early reports on new food sources, biological sources, agricultural applications, essential oil compositions, and new activities of known compounds. Manuscripts describing bioactivity screening (e.g., antimicrobial, antioxidant, antifeedant, etc.) of crude extracts or predictable and/or unexceptional bioactivity (e.g., antioxidant activity of polyphenolics, antimicrobial activity of essential oils), are generally not acceptable. Short Reports should be kept to a maximum of six pages, including references.

**Special Issues and Book reviews** are collections of articles on the specific topics in areas related to aims and scope of journals published in the journal. Offers for the special topics must be applied to the editorial office.

As the manuscript language is English, any author who is not fluent enough in English is encouraged to consult a fluent colleague or a paid editing service for the preparation of the manuscripts. Manuscripts having language deficiencies, i.e. grammar, fluency, etc., create heavy problems during the review process. Such manuscripts might be returned to the authors

### **Records of Agricultural and Food Chemistry**

Volume: 4 Year: 2024

Issue: 3 Special Issue: Abstracts 3rd. TCS, International Food Chemistry Congress February 29-March 03,2024

for correcting the language deficiencies.

Manuscripts submitted to ACG publications are routinely screened by a software to check the originality of the submitted articles. It should be noted that ACG publications are committed to deterring plagiarism and self-plagiarism. Manuscripts submitted to ACG publications are routinely screened by a software to check the originality of the submitted articles. It should be noted that ACG publications are committed to deterring plagiarism and self-plagiarism. A plagiarism report must be uploaded during submission of manuscript.

Title of the manuscript should be as brief as possible and typed to the template file with affiliation and addresses of all the authors, including corresponding author with an asterisk. **ORCID** 100 of all authors should be added as shown in the template of manuscripts. The e-mail address, phone and fax numbers of the corresponding author should be provided as a footnote on the title page. Abstracts of all kinds of submissions should be prepared with a maximum 200 words.

Manuscripts should be compiled in the following order: Manuscripts should be compiled in the following order: **Title page; Abstract; Graphical abstract (in PAMS only), Keywords; Introduction, Materialsand Methods, Results and Discussion, Acknowledgments; Appendixes** (as appropriate); **References**; using a decimal system for subsections.

Novelty statements of manuscript must be provided and authors must adhere to <u>SI units</u>. When using a word which is or is asserted to be a proprietary term or trade mark authors must use the symbol ® or TM or alternatively a footnote can be inserted using the wording below: Please see the details of section to the following link "**Guide** for manuscript preperation".

#### References

References should be cited in the text by Arabic numbers in square brackets and should be arranged in the list of references according to the numbers in the end of the main text. Unpublished results and personal communications should not be in the reference list, but may be mentioned in the text. If reference is made to papers submitted or in press, authors are requested to enclose a copy of manuscript or galley proof.

The following examples illustrate the format for reference:

Journal citation

A.C. Goren, B.N. Zhou and D.G.I. Kingston (2003). Cytotoxic and DNA damaging activity of some aporphine alkaloids from *Stephania dinklagei*, *Planta Med* . **69**, 867-868.

Chapter citation

A. Ulubelen and G. Topcu (1992). Diterpenoids from *Salvia* species and their pharmacological activities, In: Studies in Natural Products, *ed*: Atta-ur Rahman, Elsevier Science, Amsterdam, Netherlands, pp.363-381.

Book citation

R.P. Adams (1995). Identification of essential oil components by gas chromatography/mass spectroscopy. Alluredpublishing Co. Carol Stream, Illinois.

### **ATTENTION**

The number of authors of the reference is more than 10, names should be written up to the 10th author, and et.al should be written thereafter. When there are 10 authors or less, all authors should be written as shown in the example. While the issue number is written in bold, the parentheses should not be written in bold.

**Warning: The most common mistakes for the References**: Writing format of author names, not writing the reference name in lowercase letters, placing a period instead of a comma after the reference title, Journal names should not be written in their abbreviated form and with a period after the abbreviation. If the journal name consists of a single word, please do not put a period at the end.

#### **Plagiarism Check and Ethics**

Any manuscript submitted, soon to be submitted or in press at any other journal will not be considered by Records of Agricultural and Food Chemistry (RAFC)), and it is authors responsibility to inform the Editor of Records of Agricultural and Food Chemistry if such event exists. If the submitted manuscript is a revised version of a previously rejected by RNP, the authors must indicate previous submission in their cover letter and explain the reason/changes that they made in the revised one.

The Ethical Guidelines for Publication in Journals and Reviews issued by the European Association of Chemical and Molecular Sciences are applied by Records of Agricultural and Food Chemistry . Authors of all the manuscripts submitted to Records of Agricultural and Food Chemistry automatically accept the guidelines given in the Ethical Guidelines for Publication in Journals and Reviews and the authors have to provide the ethical board approved document informations ( the number and date and ethical board name of ethical approval) in the main text of manuscript and related data should be available in supporting

### **Records of Agricultural and Food Chemistry**

Volume: 4 Year: 2024

Issue: 3 Special Issue: Abstracts 3rd. TCS, International Food Chemistry Congress February 29-March 03,2024

information file of manuscript, if necessary or requested by the editorial office. The following studies strongly needs ethical board approval eg. any of in vivo studies on any animal and human body, studies of endangered species in nature, information about the people including any kind of survey data etc. For detail please see the COPE guidelines.

Authors are encouraged to attach an authenticated report during the submission to make sure that there is no plagiarism problem. Manuscripts submitted to Records of Agricultural and Food Chemistry publications are routinely screened by a software to check the originality of the submitted articles. It should be noted that RNP publications are committed to deterring plagiarism and self-plagiarism

ACG Publications journals use iThenticate ® software to check the originality of submitted manuscripts for plagiarism. If a duplication is detected by the editorial office and reviewers, the manuscript will directly be rejected. If the authors use the same sentences of their or another authors previous work with citation without quotation mark, it will still be considered as self-plagiarism and plagiarism,respectively.Records of Agricultural and Food Chemistry has the right of removing any article published in RNP, and banning the authors submitting their studies in future if any ethical violation is identified.

#### Copyright

It is a condition of publication that authors vest or license copyright in their articles, including abstracts, in ACG Publications. This enables us to ensure full copyright protection and to disseminate the article, and the Journal, to the widest possible readership in electronic formats as appropriate. Authors must accept the articles published in the journal for free all around the world. To read and download published papers is free for scientific purposes.

### **Supplementary Material**

Supplementary materials could be sent together with manuscript submission such as spectra, video, Picture etc.

#### **Publication Fee**

ACG Publications is happy to announce continuation of the publication of Records of Agricultural and Food Chemistry completely free of charge for two years and as RAFC papers are now supported by Troyasil HPLC Column Technologies. On this occasion, we would like to thank <u>Troyasil HPLC Column Technologies</u> (<u>www.troyasil.com</u>) for their great support to our scientific community.

The authors are charged a fee for English language corrections and/or journal format corrections requested by the authors or editorial team. These services are not considered within the free publication criteria of related journals of ACG PUBLICATIONS.

#### Withdrawal of a Manuscript

If the authors intend to withdraw their manuscript after it has been peer reviewed, or after it has been typeset, but not yet published, you will be asked to pay according to the following:

For peer review:200 USD per article

For peer review and typesetting: 300 USD per article

#### **Proof Corrections**

The proof corrections must be done carefully by the authors. When proof corrections are returned to Journal further corrections are not allowed.

**Erratum or Publisher Correction**. Notification of an important error made by the journal that affects the publication record or the scientific integrity of the paper, or the reputation of the authors or of the journal.

**Corrigendum or Author Correction**. Notification of an important error made by the author(s) that affects the publication record or the scientific integrity of the paper, or the reputation of the authors or the journal.

**Retraction**. Notification of invalid results that affect the reliability of a previously published article. The original article is marked as retracted but remains available to readers, and the retraction statement notifying readers of the invalidity of the published paper is bi-directionally linked to the original published paper.

**Addendum**. Notification of additional information about a paper. Addenda are published when the editors decide that the addendum is crucial to the reader's understanding of a significant part of the published contribution. Addenda include Editorial Expression of Concern, which is an editorial statement alerting our readership to serious concerns with the published paper. Editorial Expressions of Concern are typically updated with another amendment once further information is available. The editors may request additional information after publication of the article from the authors and it can be available on the page of the article.

### **Peer Review Policy**

## **Records of Agricultural and Food Chemistry**

Volume: 4 Year: 2024

Issue: 3 Special Issue: Abstracts 3rd. TCS, International Food Chemistry Congress February 29-March 03,2024

All published research articles in Records of Agricultural and Food Chemistry have undergone rigorous single blind peer review, based on initial editor screening and anonymized refereeing by expert referees.

## **Records of Agricultural and Food Chemistry**

Volume: 4 Year: 2024

Issue: 3 Special Issue: Abstracts 3rd. TCS, International Food Chemistry Congress February 29-March 03,2024

### **Contents**

Meeting Abstract (Oral Presentation)
Adel Shehata and Abdulrahman R. Alaskar
Importance of the Uncertainty of Measurements in Food Analysis - p.1-1

Meeting Abstract (Oral Presentation)
Oguz Ozturk
The Role of Polyphenols in Cancer Prevention and Treatment - p.2-2

Meeting Abstract (Oral Presentation)
Turkan Keceli Mutlu and Apostolos Kritsakis
The Importance of Olive Oil in Mediterrenean Diet - p.3-3

Meeting Abstract (Oral Presentation)

Maria Fernades Whaley, Desirée Prevoo- Franzsen, Laura Quinn, Caitlin Swiegelaar, Nontete Nhlapo, Deirdre Claasen and Mare Linsky

Measurements in the Food Sector, A Vital Component for Consumer Protection - p.4-4

Meeting Abstract (Oral Presentation)
Tuncay Dirmenci
The Lamiaceae Family: Biodiversity and Uses - p.5-5

Meeting Abstract (Oral Presentation)
M. Iqbal Choudhary
Chemical and Biological Studies on Dietary Plants - p.6-6

Meeting Abstract (Oral Presentation)
Muhammed Arıcı
Microbial Degradation Mechanisms of Mycotoxins - p.7-7

Meeting Abstract (Oral Presentation)
Perihan Yolci Omeroğlu, Busra Acoglu Celik and Sifa Caliskan

Effect of Commercial and Household Processing on the Residue Behaviors, Reduction Rates, and Processing Factors of Pesticide Residues in Foods - p.8-8

Meeting Abstract (Oral Presentation) Gülaçtı Topçu

<u>Functional Foods and Nutraceuticals with Antioxidant and Neuroprotective Properties in Ameliorating Neurodegenerative Diseases</u> - p.9-9

Meeting Abstract (Oral Presentation)
Fevzi Ozgokce
The Relationship Between Biodiversity and Sustainable Food Supply - p.10-10

Meeting Abstract (Oral Presentation)
Asuman kan
Potential for The Use of Natural Fruits in Functional Cereal Products - p.11-11

## **Records of Agricultural and Food Chemistry**

Volume: 4 Year: 2024

Issue: 3 Special Issue: Abstracts 3rd. TCS, International Food Chemistry Congress February 29-March 03,2024

Meeting Abstract (Oral Presentation) Gülşah Çaliskan Koc

Protein Extraction Methods from the Edible Insects - p.12-12

Meeting Abstract (Oral Presentation)
Kaltrina Jusufi, Eralda Dano, Makfire Sadiku and Bardha Korca
Use of Herbal Tea as an Approach to Water Remediation from Contaminants - p.13-13

Meeting Abstract (Oral Presentation)
Gizem Nazlı Ural and Osman Kadir Topuz
Comparation of Nutritional Value of Salmon and Sturgeon Caviar - p.14-14

Meeting Abstract (Oral Presentation) Tamer Üstuner

Determination of Chemical Components of Some Plant Species Used as Food in Kahramanmaras Province - p.15-15

Meeting Abstract (Oral Presentation)
Tuğba Şimşek, Murat İntepe and İrem Uysal
The Chemical Mechanism of the Fermentation Steps in Turnip Juice - p.16-16

Meeting Abstract (Oral Presentation)
Tuğba Şimşek, Murat İntepe and Gamze Yildirim
Value Added Product from Shalgam Pulp - p.17-17

Meeting Abstract (Oral Presentation)
Tuğba Şimşek, Murat İntepe and İrem Uysal
The Effect of Tunnel Pasteurization Parameters on Calcium, Magnesium, and Bicarbonate in Flavored Mineral Waters p.18-18

Meeting Abstract (Oral Presentation)
Hilal Akın, İbrahim Sani Özdemir, Şerafettin Yazıcı, Hilal Rüzgar and Rabia Şeyma Mengi
Determination of Plum Varieties Suitable for Fruit Juice Industry and Their Suitability for Drying - p.19-19

Meeting Abstract (Oral Presentation)
Derya Nimet Akcasu, Tuğba Şimşek and Murat İntepe
Biodegradable Food Packaging Materials - p.20-20

Non-Targeted Metabolomics - p.22-22

Meeting Abstract (Oral Presentation)
Seçil Pektaş, Selinay Özel, Melis Şardan Ekiz, İdil Yet, Ömür Gençay Çelemli and Ömür Çelikbiçak
Profiling Metabolites in Regional Monofloral Turkish Honeys Using GC-MS - p.21-21

Meeting Abstract (Oral Presentation)
İsmail Emir Akyıldız, Dilek Uzunöner, Özge Erdem, Sezer Acar, Emel Damarlı and Sinem Raday
<u>Tracking the Unique Compounds of Common Adulterants to Confirm Honey Authenticity Employing Orbitrap HR-MS Based</u>

Meeting Abstract (Oral Presentation) Ayşegül Erdogan, Mehmet Emin Şeker, Bayram Yuksel, Fikret Ustaoglu and Mehmet Metin Yazman

### **Records of Agricultural and Food Chemistry**

Volume: 4 Year: 2024

Issue: 3 Special Issue: Abstracts 3rd. TCS, International Food Chemistry Congress February 29-March 03,2024

A Study on the Elemental Composition, Nutritional Values, and Health Risks of Some Chocolate Brands Available in Turkish Markets - p.23-23

Meeting Abstract (Oral Presentation)

İsmail Emir Akyıldız, Sinem Raday, Dilek Uzunöner, Sezer Acar and Emel Damarlı

Extending the Quality Control Landscape of Royal Jelly Products by Simultaneous MRJP Proteotype Quantification and Adulterant Identification - p.24-24

Meeting Abstract (Oral Presentation)

Dilek Uzunöner, İsmail Emir Akyıldız, Tuğçe Daştan, Sezer Acar, Sinem Raday and Emel Damarlı Unveiling the Pyrrolizidine Alkaloid Residues in Honey and Bee Pollen Samples by Employing Novel Online-SPE Configured LC-MS Analysis - p.25-25

Meeting Abstract (Oral Presentation)

Selen Akbulut, Perihan Kubra Akman, Fatih Tornuk and Hasan Yetim

Determination of Microplastic Release from Disposable Plastic Cups to Beverages - p.26-26

Meeting Abstract (Oral Presentation)

Teslime Tilki, Merce Boix and Özge Taştan

Recent Trends in the Determination of Sugars and Organic Acids for Fruit-based Products - p.27-27

Meeting Abstract (Oral Presentation)

Turkan Keceli Mutlu and Selim Yuvalı

The Antioxidant Activity of Essential Oils in Edible Oils - p.28-28

Meeting Abstract (Oral Presentation)

Turkan Keceli Mutlu

Analytical Methods for Measuring Lipid Oxidation and Antioxidant Capacity in Food Systems - p.29-29

Meeting Abstract (Oral Presentation)

Gülden Hazarhun, Burcu Gumul, Busra Maden, Kubra Ayyildiz, Simge Ertas Ozkan, Ecem Ezgi Arabaci, Aysegul Kumral and Nabi Alper Kumral

Evaluation of Matrix Effects for the Analysis of Some Pesticide Residues in Citrus Fruits, Pepper, Tomato and Lettuce Samples using a Multi-residue Analysis Method - p.30-30

Meeting Abstract (Poster Presentation)

Uğur Fidansov

<u>Isotope Ratio Mass Spectrometry for Geographical Origin Authentication and Adulteration Determination in Food Products</u> **p.31-31** 

Meeting Abstract (Oral Presentation)

Zehra Betül Ahi, Beyza Çay, Ayşegül Uzuner Demir, Mihriban Aydoğan-gemici, Buğrahan Özdemir and Saeid Choobdar Rahim

Utilization of Poultry Industry Wastes as Food Supplements - p.32-32

Meeting Abstract (Oral Presentation)

Bihter Sahin, Mehmet Ozturk, Yusuf Sıcak, Ozge Tokul Olmez, M. Igbal Choudhary and Isa Celik

Evaluation of Anti-inflammatory and Cytotoxic Activities of Extracts of Waste Petals, Leaves, and Stems of Turkish Artichoke (Cynara scolymus) by Phenolic Content - p.33-33

## **Records of Agricultural and Food Chemistry**

Volume: 4 Year: 2024

Issue: 3 Special Issue: Abstracts 3rd. TCS, International Food Chemistry Congress February 29-March 03,2024

Meeting Abstract (Oral Presentation)

Yusuf Sıcak, Aygül Akın Ekmekçioğlu, Dilaycan Çam and Mehmet Ozturk

<u>Liquidambar orientalis Leaf Tincture: Exploring of Urease Inhibition Activity and Determination of Chemical Components by HPLC-DAD</u> - p.34-34

Meeting Abstract (Oral Presentation)

Gülin Gümüşbulut Şener, Dilara İbrahİmzade, Cansel Çakir, Dilaycan Çam, Ozge Tokul Olmez, Yusuf Sıcak and Mehmet Ozturk

The Changes in Chemical Ingredients of Rosmarinus Officinalis Essential Oils Obtained Under Different Conditions and Chemometric Approach - p.35-35

Meeting Abstract (Oral Presentation)

Kübra Tuna, Cansel Çakır, Özge Tokul-Ölmez and Mehmet Ozturk

Enzyme Inhibitory Activities of Anatolian Propolis Collected from 15 Regions of Türkiye with Chemical Ingredients - p.36-36

Meeting Abstract (Oral Presentation)

Cağlar Gökırmaklı, İlhan Gün, Mehmet Onur Kartal and Zeynep Banu Guzel-seydim

Investigation of Physico-Chemical, Microbial and Antioxidant Properties of Viburnum opulus Fermented with Water Kefir Grains - p.37-37

Meeting Abstract (Oral Presentation)

Hasan Hüseyin Ünal, Mesut Şenel, Ayşegül Hos, Mehmet Karaaslan and Andreas L. Kalcker

Usage of Chlorine Dioxide Against Infectious Agents for Human, Animal and Environmental Health - p.38-38

Meeting Abstract (Oral Presentation)

Zahide Dundar, Onur Ozdikicierler, Hakan Alkan and Fahri Yemiscioglu

Palm Oil Facts and Sustainability - p.39-39

Meeting Abstract (Short Oral Presentation)

Elif Tırancıoğlu

Examining the Effect of Cream Process Parameters on Product Performance - p.40-40

Meeting Abstract (Oral Presentation)

Kübra Sümer, Duygu Polat, Gülin Çamlı and Fahri Yemiscioglu

Mineral Oil (MOH) Contamination in Refined Vegetable Oils and Prevention-Mitigation Methods - p.41-41

Meeting Abstract (Oral Presentation)

Abdurrahim Kocyigit, Ezgi Durmus and Zeynep Ozman

Role of Propolis in Cancer Chemoprevention - p.42-42

Meeting Abstract (Oral Presentation)

Hatice Gözde Hosta Yavuz, İbrahim Yavuz, Aslı İşçi Yakan and İrfan Turhan

Deep Eutectic Solvent Pretreatment of Rye Bran for The Production of Aspergillus niger A42 (ATCC 204447) Inulinase - p.43-43

Meeting Abstract (Oral Presentation)

Sema Çarıkçı, Ahmet C. Goren, Turgut Kılıç and Tuncay Dirmenci

Chemical Contents and Activities of Some Commonly Consumed Origanum L. (Lamiaceae) Species - p.44-44

## **Records of Agricultural and Food Chemistry**

Volume: 4 Year: 2024

Issue: 3 Special Issue: Abstracts 3rd. TCS, International Food Chemistry Congress February 29-March 03,2024

Meeting Abstract (Oral Presentation) Sema Çarıkçı and Reyhan İrkin

Some Physical and Chemical Properties of Functional Turkish Delight Produced with Purple Carrot and Inulin - p.45-45

Meeting Abstract (Oral Presentation)
Birsen Başak Adamoğlu and Gizem Çalışgan Ünay
Food Components: Protein with all Aspects - p.46-46

Meeting Abstract (Oral Presentation)

Nevin Başaran, Ferda Altuner, Özgür Anuk, Murat Taşan, Onur Özdikicierler and Aziz Tekin Detection of Adulteration of Safflower Oil in Sunflower Oil Using Fatty Acid Composition, Triglycerides and Sterols by Principal Component Analysis - p.47-47

Meeting Abstract (Short Oral Presentation) Damla özçelik

Decreasing Sugar Level by Enzymatic Hydrolysis of Lactose in Fruit Yogurt - p.48-48

Meeting Abstract (Short Oral Presentation)
Ganime Selen Karaçuhalılar and Muhammed Fatih Albayrak
Headspace Solid-Phase Microextraction (SPME) Use for the Characterization of Flavored Hookahs - p.49-49

Meeting Abstract (Short Oral Presentation)

Gülden Hazarhun, Burcu Gumul, Busra Maden, Kubra Ayyildiz, Simge Ertas Ozkan, Ecem Ezgi Arabaci and Nabi Alper Kumral

An Acid Hydrolysis Method for the Detection of Twelve Pesticides Approved by TestQual and QS Proficiency Tests - p.50-50

Meeting Abstract (Oral Presentation) Hümeyre Elif Karartı and Ebru Erol

Investigation of Anti-Alzheimer Activity of Royal Jelly in an in vitro Human Digestive System Model - p.51-51

Meeting Abstract (Poster Presentation)

Miroslav Novakovic, Vele Tešević, Danail Pavlov, Miglena Nikolova and Stefka Valcheva-Kuzmanova Isolation of Bioflavonoid Fustin from the Heartwood of Eurasian Smoketree (Cotinus coggygria Scop.) - p.52-52

Meeting Abstract (Poster Presentation)

Mehmed Abtulov, Maria Tzaneva, Miroslav Eftimov, Silvia Gancheva, Milena Salbashian, Maria Zhelyazkova-Savova and Stefka Valcheva-Kuzmanova

Aronia Melanocarpa Fruit Juice Prevents the Hepatic Impairment in an Experimental Model of Metabolic Syndrome - p.53-53

Meeting Abstract (Poster Presentation)

Milena Salbashian, Miglena Nikolova, Mehmed Abtulov, Miroslav Eftimov, Antoaneta Georgieva, Vele Tešević, Miroslav Novakovic, Danail Pavlov, Maria Tzaneva, Nadezhda Stefanova and Stefka Valcheva-Kuzmanova Histopathological and Immunohistochemical Evaluation of the Protective Effect of the Flavonoid Fustin in a Rat Model of Paracetamol-induced Acute Liver Damage - p.54-54

Meeting Abstract (Poster Presentation) Gülsah Mutlu

Determination of Thymoquinone in Black Cumin Oil and in Flavor Using High Performance Liquid Chromatography -

## **Records of Agricultural and Food Chemistry**

Volume: 4 Year: 2024

Issue: 3 Special Issue: Abstracts 3rd. TCS, International Food Chemistry Congress February 29-March 03,2024

p.55-55

Meeting Abstract (Poster Presentation)

Miroslav Eftimov, Antoaneta Georgieva, Danail Pavlov, Miroslav Novakovic, Vele Tešević, Mehmed Abtulov, Milena Salbashian, Miglena Nikolova and Stefka Valcheva-Kuzmanova

Comparative Study of the Anti-inflammatory Effect of Ethanol Infusion from Cotinus coggygria Heartwood and the Flavonoid Fustin in a Rat Model of Carrageenan-induced Paw Edema - p.56-56

Meeting Abstract (Poster Presentation)
Mehmed Abtulov and Stefka Valcheva-Kuzmanova
Current Knowledge of the Health-promoting Effects of Fustin – a Mini-review - p.57-57

Meeting Abstract (Poster Presentation)

Georgi Antov, Zlatina Gospodinova, Danail Pavlov, Miroslav Novakovic, Vele Tešević, Natalia Krasteva and Stefka Valcheva-Kuzmanova

Anticancer Action of the Bioflavonoid Fustin in a Highly Metastatic Colon Cancer Cell Line - p.58-58

Meeting Abstract (Poster Presentation)

Nadezhda Stefanova, Miglena Nikolova, Milena Salbashian, Mehmed Abtulov, Vele Tešević, Miroslav Novakovic, Danail Pavlov, Antoaneta Georgieva, Miroslav Eftimov, Maria Tzaneva and Stefka Valcheva-Kuzmanova Effects of Fustin on Nuclear Factor Kappa B Expression in a Rat Model of Trinitrobenzene Sulfonic Acid-induced Colitis - p.59-59

Meeting Abstract (Oral Presentation)

Apostolos Kritsakis, Turkan Keceli Mutlu, Evaggelos Evaggelou and Charalampos Anousakis Olive oil and Cretan - Mediterranean diet: The importance of olive oil constituents, and mainly polyphenols, in human health - The Redox system. - p.60-60

Meeting Abstract (Poster Presentation)
Aysun Özçelilk, Fatmanur Mavi, Ayça Uras, Fatma Ersöz and Mehmet İnan
Recombinant Production of a-Amylase Enzyme Used in Fruit Juice Production - p.61-61

Meeting Abstract (Poster Presentation) Sıla Satı Şimşek and Merve Duran

Investigation of Analytical Data and Sensory Profiles of Flavour Components of Mandarin Fruit from Different Regions - p.62-62

Meeting Abstract (Poster Presentation)
Nagihan Yaşar, Ceyda Okan and Buket Sahyar
Determination and Quantification of the Amitraz in Complex Matrix - p.63-63

Meeting Abstract (Poster Presentation)
Doga Cakmak and Mehmet Yekta Göksungur
Bioethanol Production from Different Food Wastes - p.64-64

Meeting Abstract (Poster Presentation) Büşra Çuhadar and Kemal Özgür Boyanay

Developmenet of Aromatic Components – Rich Extract Specially for Chocolate Products from Hazelnut Grows Giresun, Türkiye with Supercritical CO2 Extraction – p.65-65

### **Records of Agricultural and Food Chemistry**

Volume: 4 Year: 2024

Issue: 3 Special Issue: Abstracts 3rd. TCS, International Food Chemistry Congress February 29-March 03,2024

Meeting Abstract (Poster Presentation)

Gülşah Mutlu

Determination of Thymoquinone Substance In Trace Amounts In Black Cumin Oil And In A Flavor Using High Performance Liquid Chromatography - p.66-66

Meeting Abstract (Poster Presentation)

Ganime Selen Karaçuhalılar and Muhammed Fatih Albayrak

Evaluation of Time Dependent Oxidation of Some Berry Flavors with CUPRAC Method - p.67-67

Meeting Abstract (Poster Presentation)

Dilaycan Çam, Cansel Çakır, Yusuf Sıcak, Ilgaz Akata, Şevki Arslan and Mehmet Ozturk

<u>Cytotoxic Activity of Lactarius salmonicolor R.Heim&Leclair Apolar Extract Against Most Common Cancers and Determination of Cytotoxic Compounds Using GC-MS and Chemometric Techniques</u> - p.68-68

Meeting Abstract (Poster Presentation)

Miglena Nikolova, Danail Pavlov, Miroslav Eftimov, Antoaneta Georgieva, Milena Salbashian, Mehmed Abtulov, Miroslav Novakovic, Vele Tešević and Stefka Valcheva-Kuzmanova

The Bioflavonoid Fustin, Isolated from Cotinus coggygria Heartwood, Restores Intracellular Activity of Superoxide Dismutase in a Rat Model of Trinitrobenzensulfonic Acid-induced Colitis - p.69-69

Meeting Abstract (Poster Presentation)

Bertuğ Arisut

A Candy from Orange Peels Using Osmotic Dehydration - p.70-70

Meeting Abstract (Poster Presentation)

Merve Özer, Berfin Eda Elcik, Güllü Aykara and Melek Ezgi Irmak

Development of Sausage Formulation and Optimization of Process Parameters Compared to Cellulose Casing, Utilizing High Moisture Barrier Polyamide Casing as an Alternative - p.71-71

Meeting Abstract (Poster Presentation)

Berfin Eda Elcik, Merve Özer and Ayşegül Yavaşcan

The Impact of Coating Materials Obtained from Alternative Starch Sources on the Quality of Processed Chicken Meat Products - p.72-72

Meeting Abstract (Poster Presentation)

Cenk Pasa and Turgut Kılıç

Different Salt Concentrations and Ascorbic Acid Effect on Germination of Blue Skullcap (Scutellaria lateriflora) Plant - p.73-73

Meeting Abstract (Poster Presentation)

Gizem Nazlı Ural and Osman Kadir Topuz

Cell-Based Crustacean Meat: Commercial Species, Cell Isolation Methods, and Culture Conditions - p.74-74

Meeting Abstract (Poster Presentation)

Gizem Nazlı Ural and Osman Kadir Topuz

Cellular Seafood: Current Challenges to Overcome in The Development of Cellular Seafood - p.75-75

Meeting Abstract (Poster Presentation)

Turgut Kılıç, Cenk Pasa and Ahmet C. Gören

Medicinal Use and Chemical Composition of Scutellaria baicalensis Species - p.76-76

## **Records of Agricultural and Food Chemistry**

Volume: 4 Year: 2024

Issue: 3 Special Issue: Abstracts 3rd. TCS, International Food Chemistry Congress February 29-March 03,2024

Meeting Abstract (Poster Presentation) Esra Bursa

From Child Development to Country Development with Food - p.77-77

Meeting Abstract (Poster Presentation) Hilal Ata, Onur Bozkurt and Onur Karaalioğlu

Developing an Emulsifier/Stabilizer Blend for UHT Pudding Production by Using Encapsulation Technique - p.78-78

Meeting Abstract (Poster Presentation)

Cansel Çakır, Kübra Tuna, Dilaycan Çam, Fatma Aydoğmuş-Öztürk, Şevki Arslan and Mehmet Ozturk

<u>Acetone Extract of Tricholoma scalpturatum (Fr.) Quél Induced Apoptosis in Colon (Caco-2) Cancer Cell Lines</u> - p.79-70

Meeting Abstract (Poster Presentation)
Hüseyin Kanbur
Food Irradiation for Food Safety and Its Legislation in Turkey - p.80-80

Meeting Abstract (Poster Presentation) Hamza Çatal

Determination of Sugar in Honey Samples Using NMR Spectroscopy and Chemometric Methods - p.81-81

Meeting Abstract (Oral Presentation) Mehmet İnan

Production of Food Industrial Enzymes from Recombinant Microorganisms - p.82-82