

## Curriculum Vitae: Petros A. Tarantilis

Petros A. Tarantilis, Professor on Instrumental Chemical Analysis of Natural Products

Agricultural University of Athens (A.U.A.), School of Food and Nutritional Sciences,

Department of Food Science and Human Nutrition, Laboratory of Chemistry.

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### Current Position:

- Professor on Instrumental Chemical Analysis of Natural Products (14/12/2016)

**Past Positions:** Associate Professor, Assistant Professor, Lecturer on Instrumental Chemical Analysis of Plant Natural Products, A.U.A., 18/07/2001 – 23/12/2016.

- Teaching Assistant (Assistant Professor), Department of Oenology, Technological Educational Institute (T.E.I.) of Athens, 1995-1998.
- Teacher, Secondary Education, 1997-1998
- Trainer, Training Institute of Maroussi (IEK), School of Viticulture and Oenology, 1998-1999
- Consultant Food & Beverages Industry, Foodservice etc., 1990-2000.

### Research Interests:

- Isolation, purification and structure determination of natural products using chromatographic and spectroscopic techniques. Development of new techniques for separation, evaluation and analysis of main compounds of plants cultivated in Greece as Medicinal and Aromatic Plants (MAPs), Saffron (*Crocus sativus* L.) etc.
- Study of Biological Activity of Natural Products (Antioxidant, Antimicrobial, Toxicity etc.)
- Instrumental methods of plants and food analysis.
- FT-IR & Raman Spectroscopic study of microorganisms.
- Development methods for quality determination, adulteration and authenticity (botanical and geographical origin) of food (honey, olive oil etc).

### International Research Cooperation

1. Laboratoire de Spectroscopie Biomoléculaire, Faculté de Pharmacie, Université de Reims Champagne-Ardenne, 51, rue Cognacq Jay, 51096 Reims Cedex, **France**. (1990, 1992-1993).
2. Cátedra de Química Agrícola, E.T.S.I. Agrónomos, Universidad de Castilla-La Mancha, Campus Universitario, 02071 Albacete, **Spain**.
3. Laboratory of Biochemistry, Institute of Biochemistry and Physiology of Plants and Microorganisms, Russian Academy of Sciences, 410049 Saratov, **Russia**.
4. Division Biotechnologies and Agroindustry, Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Rome, **Italy**.

### Participation in International Research Projects: Selected

1. Isolation, séparation et purification des caroténoïdes du safran et étude in vivo à l'échelle cellulaire de leurs activités biologiques. GSRT of Ministry of Development Greek and «Ambassade de France en Grèce. Bureau des échanges scientifiques». **1990**.
2. INTERREG III C – SAFFRON, European Union (EU) project. **2005**.
3. SAFFIC. Methodologies for implementing International Standards for Saffron Purity and Quality. European Union (EU) project. **2006 – 2009**.
4. Genetic Resources of Saffron and Allies (*Crocus* spp.)-CROCUSBANK. AGRI GEN RES 2005. **2007-2010**
5. COST ACTION FA 1101. SAFFRONOMICS: Short term scientific missions in Saffron research. Omics Technologies for Crop Improvement, Traceability, Determination of Authenticity, Adulteration and Origin in Saffron. **Leader of WG3:** Molecular and Phytochemical fingerprinting for breeding, traceability, and authenticity (development of technological tools) **2011-2015**

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### Participation in National Research Projects: Selected

1. Development of innovative "tools" to determine the authenticity of high value-added Greek export products (Olive Oil & Honey) using a combination of modern analytical techniques. Professional's and consumer's awareness. Acronym: QuaAuthentic\_GR. **2018-2021**
2. "Innovative Biotechnological Production of Antioxidant Products of Plant Origin from Microbial Factories, and Essential Oils from Natural Flora of the Greek Flora for the Creation of New Quality Hydroprotective Products and Nutritional Supplements". Acronym: Antiox-plus **2018-2021**
3. Emblematic Action "The Routes of Bees" **2019-2022**.
4. Emblematic Action "The Routes of Olive" **2019-2022**.
5. Emblematic Action "The Routes of Vineyards" **2019-2022**.
6. Study of bioactive substances from plants of the Greek biodiversity as a nutritional source for the prevention and treatment of childhood cancer; emphasis on saffron and its secondary metabolites (crocins, crocetin, dimethylcrocetin) MIS 5048464, **2020-2021**
7. Utilization of essential oils of aromatic plants for the development of new insecticides. **2020-2023**
8. Development of a pilot system of standards and a quality label for the compliance with good practices of collection, cultivation processing standardisation and packaging of mountain tea (*Sideritis* sp.) and sage (*Salvia* sp.) **2022-2025**

**Publications in International Journals: 164 (Articles: 141, Conference Papers: 10, Reviews: 11, Editorial: 1) Subtotal 2018-2022: 43.**

**Citations (Exclude self-citations of all authors): 6825, Subtotal 2018-2022: 3128; h-index: 48 (SCOPUS 2022-12-13)**

**Communications – Publications in proceedings and/or special issues of International Conferences: 104**

<https://www.scopus.com/authid/detail.uri?authorId=6604097196>

### Education:

- **Post-doctoral** Research in Agricultural Sciences, Instrumental Analysis of Plants, titled "Isolation, Purification and characterization of pigments (anthocyanins, flavonoids) for use in food industries". Lab of Chemistry, Department of Science, A.U.A., 1997-1998. Developments of saffron plant (*Crocus sativus* L) petals.
- **Ph.D.** in Agricultural Sciences, Instrumental Chemical Analysis of Plants, titled "Isolation, Purification, Identification, Spectroscopic and Biological Studies of Saffron Stigmas Components -*Crocus sativus* L. ». Lab of Chemistry, Department of Science, A.U.A., 1994.
- **B.Sc. Diploma** in Agricultural Sciences, Department of Food Science and Technology, A.U.A., Graduate Study titled "Determination of the composition of fresh butter in the Greek market" 1987.
- **Certificate** of Pedagogical and Teaching Competence. School of Pedagogical & Technological Education, 1997.

### Grants and Scholarships:

- NATO Expert Visit Grant LST.EV 979788 - Laboratory of Biochemistry, Institute of Biochemistry and Physiology of Plants and Microorganisms, Russian Academy of Sciences, Saratov, Russia (2003).
- State Scholarship Foundation – Scholarship for Postdoctoral studies in Greece (1997-1998).
- State Scholarship Foundation – Scholarship for Postgraduate studies in Greece (1988-1992).

### University Experience

**Lectures-Teaching:** 1. Instrumental Chemical Analysis 2. Organic Chemistry, 3. Food Toxicology, 4. Natural Products: Chemistry, Isolation, Identification, Bioactivity.

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### Supervisions:

**Ph.D. Supervisor: 4 students,**

1. **G. Zoumpopoulou.** Natural peptides and effect on pathogens. **AUA 2008.**
2. **E. Skotti.** Study and evaluation of bioactivity-toxicity of plant extracts of wild and cultivated aromatic-medicinal plants. **AUA 2016.**
3. **E. Kakouri.** Chemical and biological evaluation of medicinal and aromatic plants of the Greek flora. Study of the chemical composition (identification components, quantification, isolation) and in vitro / in vivo study of the biological activity. **AUA 2016.**
4. **N.S. Sotiropoulou.** Study of constituents and bioactivity of the Greek flora herbs and their decoctions/infusions. (In progress)
5. **E. Kaparakou.** Study of the phytochemical potential and evaluation of the bioactivity of herbs of the Greek biodiversity: the case of plants of the genera Mentha, Ocimum, Origanum and Sideritis. (In progress).

**M.Sc. Supervisor: 27 students, B.Sc. Supervisor: 15 students, Erasmus Students Supervisor: 7 students**

**Member of Examining Committee** for the Doctoral Dissertation:

1. **Ana Maria Sánchez Gomez.** "Advances in the Study of Crocetin Esters, Picrocrocin and Flavonoids from Saffron Spice", Department of Agroforestry Science and Technology and Genetics, School of Agricultural Engineering, University of Castilla-La Mancha, Albacete, Spain, 17-02-2009.
2. **Armando Moro Peña.** Characterization of aromatic plant extracts: potential applications in dairy matrices. University of Castilla-La Mancha, Albacete, Spain-2013.
3. **M<sup>a</sup> del Valle García Rodríguez.** Influence of different forced growing conditions of *Crocus sativus* L. on the saffron quality. University of Castilla-La Mancha, Albacete, Spain-2016.

- **Guest Editor**

**Molecules (ISSN 1420-3049).** Special Issue "Saffron (*Crocus sativus* L.): Omics and Other Techniques in Authenticity, Quality and Bioactivity Studies" This special issue belongs to the section "Natural Products". **Guest Editor** Dr. Petros A. Tarantilis.

**Applied Sciences - Special Issue "Antioxidants in Natural Products II" Guest Editor.** Prof. Dr. Petros A. Tarantilis.

### Member of Organizing – Scientific Committees / Chairman

1. Scientific Committee. 3<sup>rd</sup> International Symposium on Saffron, Krokos, Kozani, Greece, 20-23 May 2009.
2. Scientific Committee. Saffronomics Annual Conference. COST Conference on Omics technologies for crop improvement and traceability in saffron and allied species. TULLN-AUSTRIA, 14th-16th November 2013
3. Saffronomics COST Action FA1101: Expert meeting on spectroscopic techniques - Agricultural University of Athens 3-4 July 2014
4. Scientific Committee. Food and Agriculture Cost Action FA1101 'SaffronOmics' 2014 annual conference. Wageningen-The Netherlands, 2-3 October 2014
5. Organizing and Scientific committee: Food and Agriculture Cost Action FA1101 'SaffronOmics'. Final Conference on Saffronomics. Almagro, Spain 16-18 September, 2015

### Administrative Experience

Member of the University's Management Board (22-11-2022- till now).

Director of Laboratory of Chemistry (2022-till now)

Dean of the School of Food and Nutritional Sciences (2020- 2022)

Head of the Department of Food Science & Human Nutrition (2015- 2020)

Vice-Head of the Department of Food Science & Human Nutrition (2013-2015)

### Publications

#### Article: 141 (Scopus 2022.12.13)

1. Kakouri E., Nikola O., Kanakis C. Hatziagapiou K., Lambrou G. I., Trigas P., Kanaka-Gantenbein C., **Tarantilis P. A.** Cytotoxic Effect of Rosmarinus officinalis Extract on Glioblastoma and Rhabdomyosarcoma Cell Lines, *Molecules* **2022**, 27, 6348. <https://doi.org/10.3390/molecules27196348>.
2. Hatziagapiou K., Nikola O., Marka S., Koniari E., Kakouri E., Zografaki M.-E., Mavrikou S. S., Kanakis C., Flemetakis E., Chrousos G. P., Kintzios S., Lambrou G. I., Kanaka-Gantenbein C., **Tarantilis P. A.** An In Vitro Study of Saffron Carotenoids: The Effect of Crocin Extracts and Dimethylcrocin on Cancer Cell Lines. *Antioxidants* **2022**, 11, 1074. <https://doi.org/10.3390/antiox11061074>.
3. Syrokou M. K., Paramithiotis S., Kanakis C.D., Papadopoulos G. K., **Tarantilis P. A.**, Skandamis P. N., Bosnea L., Mataragas M. and Drosinos E. H. Effect of Dough-Related Parameters on the Antimold Activity of *Wickerhamomyces anomalus* Strains and Mold-Free Shelf Life of Bread. *Applied Sciences (Switzerland)*, **2022**, 12(9), 4506
4. Charalambous D., Eliades N.-G. H., Christoforou M., Kakouri E., Kanakis C., **Tarantilis P. A.**, and Pantelidou M. Chemical Characterization, Antioxidant and Antimicrobial Properties of Different Types of Tissue of *Cedrus brevifolia* Henry Extracts. *Molecules*, **2022**, 27(9), 2717
5. Makaritsis, K.P., Kotidis, C., Papacharalampous, K., Kouvaras, E., Poulakida, E., **Tarantilis, P.**, Asproдини, E., Ntaios, G., Koukoulis, G.K., Dalekos, G.N., Ioannou, M. Mechanistic insights on the effect of crocin, an active ingredient of saffron, on atherosclerosis in apolipoprotein E knockout mice (**2022**) *Coronary Artery Disease*, 33 (5), pp. 394-402. doi: 10.1097/MCA.0000000000001142.
6. Revelou, P.-K., Mouzoula, S., Xagoraris, M., Evangelaras H., Papadopoulos G. K., Pappas, C.S., **Tarantilis, P.A.** Microextraction (SPME) and Rotatable Central Composite Design-Response Surface Methodology (RCCD-RSM). *Separations*, **2022**, 9(2), 48
7. Xagoraris, M., Chrysoulaki, F., Revelou, P.-K., Alissandrakis, E., **Tarantilis, P.A.**, Pappas, C.S. Unifloral autumn heather honey from indigenous Greek *Erica manipuliflora* salisb.: SPME/GC-MS characterization of the volatile fraction and optimization of the isolation parameters (**2021**) *Foods*, 10 (10), art. no. 2487, DOI: 10.3390/foods10102487
8. Revelou, P.-K., Xagoraris, M., Alexandropoulou, A., Kanakis, C.D., Papadopoulos, G.K., Pappas, C.S., **Tarantilis, P.A.** Chemometric study of fatty acid composition of virgin olive oil from four widespread greek cultivars (**2021**) *Molecules*, 26 (14), art. no. 4151, DOI: 10.3390/molecules26144151
9. Xagoraris, M., Skouria, A., Revelou, P.-K., Alissandrakis, E., **Tarantilis, P.A.**, Pappas, C.S. Response surface methodology to optimize the isolation of dominant volatile compounds from monofloral greek thyme honey using spme-gc-ms (**2021**) *Molecules*, 26 (12), art. no. 3612, DOI: 10.3390/molecules26123612
10. Xagoraris, M., Lazarou, E., Kaparakou, E.H., Alissandrakis, E., **Tarantilis, P.A.**, Pappas, C.S. Botanical origin discrimination of Greek honeys: physicochemical parameters versus Raman spectroscopy (**2021**) *Journal of the Science of Food and Agriculture*, 101 (8), pp. 3319-3327. DOI: 10.1002/jsfa.10961
11. Xagoraris, M., Oikonomou, I., Daferera, D., Kanakis, C., Lappa, I.K., Giotis, C., Pappas, C.S., **Tarantilis, P.A.**, Skotti, E. Quality evaluation of winery by-products from ionian islands grape varieties in the concept of circular bioeconomy (**2021**) *Sustainability (Switzerland)*, 13 (10), art. no. 5454, DOI: 10.3390/su13105454
12. Xagoraris, M., Revelou, P.-K., Alissandrakis, E., **Tarantilis, P.A.**, Pappas, C.S. The use of right angle fluorescence spectroscopy to distinguish the botanical origin of greek common honey varieties (**2021**) *Applied Sciences (Switzerland)*, 11 (9), art. no. 4047, DOI: 10.3390/app11094047
13. Revelou, P.-K., Pappa, C., Kakouri, E., Kanakis, C.D., Papadopoulos, G.K., Pappas, C.S., **Tarantilis, P.A.** Discrimination of botanical origin of olive oil from selected Greek cultivars by SPME-GC-MS and ATR-FTIR spectroscopy combined with chemometrics (**2021**) *Journal of the Science of Food and Agriculture*, 101 (7), pp. 2994-3002. DOI: 10.1002/jsfa.10932
14. Xagoraris, M., Revelou, P.-K., Dedegkika, S., Kanakis, C.D., Papadopoulos, G.K., Pappas, C.S., **Tarantilis, P.A.** SPME-GC-MS and FTIR-ATR spectroscopic study as a tool for unifloral common greek honeys' botanical origin identification (**2021**) *Applied Sciences (Switzerland)*, 11 (7), art. no. 3159, DOI: 10.3390/app11073159
15. Pitsikas, N., **Tarantilis, P.A.** Crocins, the bioactive components of *crocus sativus* L., counteract the disrupting effects of anesthetic ketamine on memory in rats (**2021**) *Molecules*, 26 (3), art. no. 528, DOI: 10.3390/MOLECULES26030528

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16. Kaparakou, E.H., Kanakis, C.D., Gerogianni, M., Maniati, M., Vekrellis, K., Skotti, E., **Tarantilis, P.A.** Quantitative determination of aloin, antioxidant activity, and toxicity of Aloe vera leaf gel products from Greece (2021) *Journal of the Science of Food and Agriculture*, 101, 2, Pages 414-423, DOI: 10.1002/jsfa.10650
17. Xagoraris, M., Revelou, P.-K., Arvanitis, N., Basalekou, M., Pappas, C.S., **Tarantilis, P.A.** The application of right-angle fluorescence spectroscopy as a tool to distinguish five autochthonous commercial Greek white wines (2021) *Current Research in Food Science*, 4, pp. 815-820.
18. Valasi, L., Georgiadou, M., **Tarantilis, P.A.**, Yanniotis, S., Pappas, C.S. Rapid screening on aflatoxins' presence in Pistachia vera nuts using diffuse reflectance infrared Fourier transform spectroscopy and chemometrics (2021) *Journal of Food Science and Technology*, 58 (1), pp. 356-365. DOI: 10.1007/s13197-020-04549-5
19. Pitsikas, N., **Tarantilis, P.A.**, The GABAA-Benzodiazepine Receptor Antagonist Flumazenil Abolishes the Anxiolytic Effects of the Active Constituents of Crocus sativus L. Crocins in Rats. (2020) *Molecules* 25, 23, 5647; <https://doi.org/10.3390/molecules25235647>
20. Kakouri, E., Agalou, A., Kanakis, C., Beis, D., **Tarantilis, P.A.** Crocins from Crocus sativus L. in the Management of Hyperglycemia. In Vivo Evidence from Zebrafish (2020) *Molecules* 25, 22, 5223; <https://doi.org/10.3390/molecules25225223>
21. Kontaxakis, E., Filippidi, E., Stavropoulou, A., Daferera, D., **Tarantilis, P.A.**, Lydakakis, D. Evaluation of eight essential oils for postharvest control of *Aspergillus carbonarius* in grapes (2020) *Journal of Food Protection*, 83 (9), pp. 1632-1640. DOI: 10.4315/JFP-19-582
22. Bekiaris, G., Koutrotsios, G., **Tarantilis, P.A.**, Pappas, C.S., Zervakis, G.I. FTIR assessment of compositional changes in lignocellulosic wastes during cultivation of *Cyclocybe cylindracea* mushrooms and use of chemometric models to predict production performance (2020) *Journal of Material Cycles and Waste Management*, 22 (4), pp. 1027-1035. DOI: 10.1007/s10163-020-00995-7
23. Sotiropoulou, N.-S.D., Flampouri, E., Skotti, E., Pappas, C., Kintzios, S., **Tarantilis, P.A.** Bioactivity and toxicity evaluation of infusions from selected Greek herbs (2020) *Food Bioscience*, 35, art. no. 100598, DOI: 10.1016/j.fbio.2020.100598
24. Sotiropoulou, N.S., Megremi, S.F., **Tarantilis, P.** Evaluation of antioxidant activity, toxicity, and phenolic profile of aqueous extracts of chamomile (*Matricaria chamomilla* L.) and sage (*Salvia ocinalis* L.) prepared at different temperatures (2020) *Applied Sciences (Switzerland)*, 10 (7), art. no. 2270. DOI: 10.3390/app10072270
25. Sarikurkcu, C., Kakouri, E., Sarikurkcu, R.T., **Tarantilis, P.A.** Study on the chemical composition, Enzyme inhibition and antioxidant activity of *Ziziphora taurica* subsp. *cleonioides* (2019) *Applied Sciences (Switzerland)*, 9 (24), art. no. 5515. DOI: 10.3390/app9245515
26. Basalekou, M., Kyraleou, M., Pappas, C., **Tarantilis, P.**, Kotseridis, Y., Kallithraka, S. Proanthocyanidin content as an astringency estimation tool and maturation index in red and white winemaking technology (2019) *Food Chemistry*, 299, art. no. 125135. DOI: 10.1016/j.foodchem.2019.125135
27. Kakouri, E., Kanakis, C., Trigas, P., **Tarantilis, P.A.** Characterization of the chemical composition of *Drimys numidica* plant parts using high-resolution mass spectrometry: study of their total phenolic content and antioxidant activity (2019) *Analytical and Bioanalytical Chemistry*, 411 (14), pp. 3135-3150. DOI: 10.1007/s00216-019-01781-7
28. Basalekou, M., Kallithraka, S., **Tarantilis, P.A.**, Kotseridis, Y., Pappas, C. Ellagitannins in wines: Future prospects in methods of analysis using FT-IR spectroscopy (2019) *LWT*, 101, pp. 48-53. DOI: 10.1016/j.lwt.2018.11.017
29. Hatziagapiou, K., Kakouri, E., Lambrou, G.I., Bethanis, K., **Tarantilis, P.A.** Antioxidant properties of crocus *Sativus* L. and its constituents and relevance to neurodegenerative diseases; Focus on Alzheimer's and Parkinson's Disease (2019) *Current Neuropharmacology*, 17 (4), pp. 377-402. DOI: 10.2174/1570159X16666180321095705
30. Koutrotsios, G., Patsou, M., Mitsou, E.K., Bekiaris, G., Kotsou, M., **Tarantilis, P.A.**, Pletsa, V., Kyriacou, A., Zervakis, G.I. Valorization of olive by-products as substrates for the cultivation of *ganoderma lucidum* and *pleurotus ostreatus* mushrooms with enhanced functional and prebiotic properties (2019) *Catalysts*, 9 (6), art. no. 537. DOI: 10.3390/catal9060537
31. Hatziagapiou, K., Kakouri, E., Lambrou, G.I., Bethanis, K., **Tarantilis, P.A.** Antioxidant properties of crocus *Sativus* L. and its constituents and relevance to neurodegenerative diseases; Focus on Alzheimer's and Parkinson's Disease (2019) *Current Neuropharmacology*, 17 (4), pp. 377-402, DOI: 10.2174/1570159X16666180321095705
32. Ait Babahmad, R., Aghraz, A., Boutafda, A., Papazoglou, E.G., **Tarantilis, P.A.**, Kanakis, C., Hafidi, M., Ouhdouch, Y., Outzourhit, A., Ouhammou, A. Chemical composition of essential oil of *Jatropha curcas* L. leaves and its



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- antioxidant and antimicrobial activities (2018) *Industrial Crops and Products*, 121, pp. 405-410. DOI: 10.1016/j.indcrop.2018.05.030
33. Pitsikas, N., **Tarantilis, P.A.** Effects of the active constituents of *Crocus sativus* L. crocins and their combination with memantine on recognition memory in rats (2018) *Behavioural Pharmacology*, 29 (5), pp. 400-412. DOI: 10.1097/FBP.0000000000000380
34. Fanouriou, E., Kalivas, D., Daferera, D., **Tarantilis, P.**, Trigas, P., Vahamidis, P., Economou, G. Hippocratic medicinal flora on the Greek Island of Kos: Spatial distribution, assessment of soil conditions, essential oil content and chemotype analysis (2018) *Journal of Applied Research on Medicinal and Aromatic Plants*, 9, pp. 97-109. DOI: 10.1016/j.jarmap.2018.03.003
35. Kamnev, A.A., Tugarova, A.V., Dyatlova, Y.A., **Tarantilis, P.A.**, Grigoryeva, O.P., Fainleib, A.M., De Luca, S. Methodological effects in Fourier transform infrared (FTIR) spectroscopy: Implications for structural analyses of biomacromolecular samples (2018) *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, 193, pp. 558-564. DOI: 10.1016/j.saa.2017.12.051
36. Kogkaki, E.A., Sofoulis, M., Natskoulis, P., **Tarantilis, P.A.**, Pappas, C.S., Panagou, E.Z. Differentiation and identification of grape-associated black aspergilli using Fourier transform infrared (FT-IR) spectroscopic analysis of mycelia (2017) *International Journal of Food Microbiology*, 259, pp. 22-28. DOI: 10.1016/j.ijfoodmicro.2017.07.020
37. Flampouri, E., Sotiropoulou, N.-S.D., Mavrikou, S., Mouzaki-Paxinou, A.-C., **Tarantilis, P.A.**, Kintzios, S. Conductive polymer-based bioelectrochemical assembly for in vitro cytotoxicity evaluation: Renoprotective assessment of *Salvia officinalis* against carbon tetrachloride induced nephrotoxicity (2017) *Biochimica et Biophysica Acta - General Subjects*, 1861 (9), pp. 2304-2314. DOI: 10.1016/j.bbagen.2017.06.021
38. Basalekou, M., Pappas, C., **Tarantilis, P.**, Kotseridis, Y., Kallithraka, S. Wine authentication with Fourier Transform Infrared Spectroscopy: a feasibility study on variety, type of barrel wood and ageing time classification (2017) *International Journal of Food Science and Technology*, 52 (6), pp. 1307-1313 DOI: 10.1111/ijfs.13424
39. García-Rodríguez, M.V., López-Córcoles, H., Alonso, G.L., Pappas, C.S., Polissiou, M.G., **Tarantilis, P.A.** Comparative evaluation of an ISO 3632 method and an HPLC-DAD method for safranal quantity determination in saffron (2017) *Food Chemistry*, 221, pp. 838-843. DOI: 10.1016/j.foodchem.2016.11.089
40. Pitsikas, N., **Tarantilis, P.A.** Crocins, the active constituents of *Crocus sativus* L., counteracted apomorphine-induced performance deficits in the novel object recognition task, but not novel object location task, in rats (2017) *Neuroscience Letters*, 644, pp. 37-42. DOI: 10.1016/j.neulet.2017.02.042
41. Petrakis, E.A., Cagliani, L.R., **Tarantilis, P.A.**, Polissiou, M.G., Consonni, R. Sudan dyes in adulterated saffron (*Crocus sativus* L.): Identification and quantification by <sup>1</sup>H NMR (2017) *Food Chemistry*, 217, pp. 418-424. DOI: 10.1016/j.foodchem.2016.08.078
42. Venetsanou, A., Anastasaki, E., Gardeli, C., **Tarantilis, P.A.**, Pappas, C.S. Estimation of antioxidant activity of different mixed herbal infusions using attenuated total reflectance fourier transform infrared spectroscopy and chemometrics (2017) *Emirates Journal of Food and Agriculture*, 29 (2), pp. 149-155. DOI: 10.9755/ejfa.2016-11-1670
43. Kakouri, E., Hatzigiapiou, K., Bethanis, K., Nikola, O.A., Lambrou, G.I., **Tarantilis, P.A.** Tumor-suppressing properties of *Crocus sativus* L.: Nature as an anti-cancer agent (2017) *Critical Reviews in Oncogenesis*, 22 (3-4), pp. 263-273. DOI: 10.1615/CritRevOncog.2017024841
44. Basalekou, M., Pappas, C., Kotseridis, Y., **Tarantilis, P.A.**, Kontaxakis, E., Kallithraka, S. Red wine age estimation by the alteration of its color parameters: Fourier transform infrared spectroscopy as a tool to monitor wine maturation time (2017) *Journal of Analytical Methods in Chemistry*, 2017, art. no. 5767613. DOI: 10.1155/2017/5767613
45. Basalekou, M., Stratariadaki, A., Pappas, C., **Tarantilis, P.A.**, Kotseridis, Y., Kallithraka, S. Authenticity determination of greek-cretan mono-varietal white and red wines based on their phenolic content using attenuated total reflectance fourier transform infrared spectroscopy and chemometrics (2016) *Current Research in Nutrition and Food Science*, 4 (Special Issue 2), pp. 54-62. DOI: 10.12944/CRNFSJ.4.Special-Issue-October.08
46. Sotiropoulou, N.-S.D., Kokkini, M.K., Megremi, S.-F.P., Daferera, D.J., Skotti, E.P., Kimbaris, A.C., Polissiou, M.G., **Tarantilis, P.A.** Determination of  $\alpha$ - and  $\beta$ -thujone in wormwood and sage infusions of Greek flora and

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- estimation of their average toxicity (2016) *Current Research in Nutrition and Food Science*, 4 (Special Issue 2), pp. 152-160. DOI: 10.12944/CRNFSJ.4.Special-Issue-October.21
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