CURRICULUM VITAE

Personal Details

Name: Kanelis Dimitrios
Date of Birth: 03-06-1984
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Studies

June 2018 – Nov 2022 | ARISTOTLE UNIVERSITY OF THESSALONIKI
Postdoctoral Research in Apiculture

POSTDOCTORAL RESEARCH TITLE: Development of methodology and investigation of antibiotic residues and mild acaricides in honey.

Research Experience/Technical Skills

- Management of bee pests and diseases at the apiary level, determination of efficacy and toxicity of formulations on bees.
- Study of the persistence of chemical and organic formulations in hive products.
- Study of the impact of beekeeping practices and application of acaricides at the hive level aiming to ensure bee welfare.
- Data processing including multivariate statistical analysis (SPSS, MiniTab).
- Development of analytical methods for controlling the residues of mild acaricides - Knowledge regarding the use of high-performance liquid chromatography instruments (HPLC - DAD).

Jun 2010 – Nov 2017 | ARISTOTLE UNIVERSITY OF THESSALONIKI
Ph.D. in Apiculture, Grade: EXCELLENT

PH.D. THESIS TITLE: Factors affecting the physicochemical characteristics of royal jelly from *Apis mellifera* L. bees.

Research Experience/Technical Skills

- Beekeeping practices for colony management (swarms and queens) and colony management according to its development season, aiming at royal jelly production after applying the necessary beekeeping practices – Bee nutrition.
- Multivariate statistical analysis of samples and statistical processing using SIMCA, SPSS, MiniTab packages.
- Development of analytical methods for quality control and variation of physicochemical characteristics and secondary metabolites of the produced royal jelly, using liquid chromatography instruments (HPLC – DAD, HPLC-RID, UPLC – MS/MS).
- Development and establishment of quality criteria for royal jelly – Identification and introduction as a food item in the food code.

Thesis in the National Archive of PhD Theses: https://www.didaktorika.gr/eadd/handle/10442/42057

Sept 2008 – Dec 2010 | ARISTOTLE UNIVERSITY OF THESSALONIKI
M.Sc., Specialization: Apiculture, Grade: EXCELLENT

MASTER'S THESIS TITLE: Investigation of protein content and carbohydrate composition of royal jelly by applying different beekeeping practices.

CORE COURSES: Honeybee Genetic Improvement, Insect Ecology, Pollination Ecology, Organic Beekeeping, Insect Behavior, Bee Product Technology.

AUTh Central Library: https://search.lib.auth.gr/Record/925779

Sept 2002 – Mar 2008 | ARISTOTLE UNIVERSITY OF THESSALONIKI
Degree in Agronomy, Direction of Plant Production and Environmental Protection, Grade: VERY GOOD

UNDERGRADUATE THESIS TITLE: Effect of queen age on royal jelly production in queenright colonies. *Recognition of five-year studies as an equivalent MASTER's degree.*

CORE APICULTURE COURSES: Bee Biology, Bee Pathology, Apiculture, Applied Apiculture.

KNOWLEDGE/SKILLS

Foreign languages: English (Excellent)

Computers: ECDL Core, Windows Microsoft Office, Knowledge of statistical packages SPSS, MiniTab, SIMCA, BIOVINCI. Operation of analytical instrument software programs (Agilent ChemStation, MSD ChemStation Program). Use of the Geojson geographic information system and automated object recognition systems in static photographs LabelMe and Labelimg. Development of an automated sound recording system inside the hive aiming at the remote management of colonies. Analysis of hive products and use of molecular techniques for breed determination (Accredited Analyst). Use of Image Pro Plus software and development of methodology for identifying and counting hypopharyngeal glands and honey crystals.

TRAINING/SEMINARS WITH CERTIFICATES

- Training in the Apiculture Laboratory system regarding honey analysis issues and Accredited Analyst of the Apiculture – Sericulture Laboratory according to ISO 17025:2005 from 2009 to 2020 in HMF and Diastase determination tests in honey. (According to the Hellenic Accreditation System – ESYD).
- Training in the new Accreditation System and Accredited Analyst of the Apiculture – Sericulture Laboratory according to ISO 17025:2017 from 2020 to 2026 in HMF and Diastase determination tests in honey and in the Genetic Material Analysis test for breed determination. (According to the Hellenic Accreditation System – ESYD) (Certificate Number 1160).
- Graduate of the School of Pedagogical and Technological Education (ASPETE): Annual pedagogical training program (EPPAIK) and certificate of pedagogical and teaching adequacy with an overall grade of 9.6 (Excellent).
- Internal Auditors of Quality Management Systems ISO 9001:2015, Organized by TUV AUSTRIA ACADEMY – University of Piraeus (Training Duration: 30/03-08/05/2018).
- "Adult Educators Trainer": Preparation for educational adequacy certification from EOPPEP, University of Macedonia, Center for Continuing Education and Lifelong Learning (Duration 150 hours).
- Quality – Information Security – Food Safety – Health and Safety at Work – Environment, Employment Development Institute, Thessaloniki.

SCIENTIFIC ACTIVITIES

- Member of the Hellenic Scientific Society of Apiculture – Sericulture.
- Member of GEOTEE (Chamber of Environment and Agronomy of Greece).
- Member of the Honey Sensory Evaluation Panel of the Apiculture – Sericulture Laboratory, AUTh, and participation in honey evaluation committees (Greek Honey Festival, Apimondia).
- Reviewer of research papers for the MDPI publishing house in the journals: Microorganisms, Animals, Applied Sciences, Toxics, Forests, Molecules, Agriculture, Antioxidants, Sustainability.
- Reviewer of research papers for the scientific journal: Journal of Apicultural Research.

TEACHING EXPERIENCE

A) Teaching Experience in Universities

1) 04-07/2018	Applied Apiculture: Teaching of the course under a fixed-term private law employment contract (P.D. 407/80) at the School of Agriculture, AUTh.
2) 04-07/2019	Applied Apiculture: Co-teaching of the course under a fixed-term private law employment contract (P.D. 407/80) at the School of Agriculture, AUTh.
3) 05-08/2020	Applied Apiculture: Co-teaching under a fixed-term private law employment contract (P.D. 407/80) at the School of Agriculture, AUTh.
4) 10/2020-01/2021	Apiculture – Sericulture – Snail Farming: Teaching courses as an academic fellow, under a fixed-term private law employment contract at the Department of Agricultural Technologists of the University of Thessaly (Larissa). Sustainable Pasture Management: Teaching courses as an academic fellow, under a fixed-term private law employment contract at the Department of Agricultural Technologists of the University of Thessaly (Larissa).
5) 03-07/2021	Animal Science: Teaching of the course under a fixed-term private law employment contract (P.D. 407/80) at the Department of Agro-technology - University of Thessaly (Larissa). Nutrition of Monogastric Animals, Rearing of Small Ruminants, Physiology of Nutrition and Metabolism: Co-teaching of courses as an academic fellow, under a fixed-term private law employment contract at the Department of Agricultural Technologists of the University of Thessaly (Larissa).
6) 10/2021-01/2022	Apiculture – Sericulture – Snail Farming: Teaching courses as an academic fellow, under a fixed-term private law employment contract at the Department of Agricultural Technologists of the University of Thessaly (Larissa). Sustainable Pasture Management: Teaching courses as an academic fellow, under a fixed-term private law employment contract at the Department of Agricultural Technologists of the University of Thessaly (Larissa).
7) 03-06/2022	Apiculture: Teaching of the course under a fixed-term private law employment contract (P.D. 407/80) at the Department of Animal Production Science – University of Thessaly (Larissa).
8) 10/2022-01/2023	Apiculture – Sericulture – Snail Farming: Teaching courses as an academic fellow, under a fixed-term private law employment contract at the Department of Agricultural

	Technologists of the University of Thessaly (Larissa). Quality Control of Animal Feed: Teaching courses as an academic fellow, under a fixed-term private law employment contract at the Department of Agricultural Technologists of the University of Thessaly (Larissa).
9) 10/2022-01/2023	General Agriculture: Teaching courses as an academic fellow, under a fixed-term private law employment contract at the Department of Animal Production Science of the University of Thessaly (Larissa).
10) 03-07/2023	Apiculture: Teaching of the course as an appointed instructor under a fixed-term private law employment contract at the Department of Animal Production Science – University of Thessaly (Larissa).
11) 03 – 05/2025	Applied Apiculture: Teaching of the course as an appointed instructor under a fixed-term private law employment contract at the School of Agriculture, AUTh. Bee Pathology: Teaching of the course as an appointed instructor under a fixed-term private law employment contract at the School of Agriculture, AUTh.
12) 07/2026 to present (Assistant Professor)	Division of Horticulture and Viticulture, School of Agriculture, AUTh. − Instructor in the courses: Apiculture, Bee Pathology, Pollination of Cultivated Plants, Applied Apiculture, Sericulture.

B) Other Educational Activity – Adult Education

1) 2011 - present	ELGO DIMITRA: Participation in accelerated training programs for adult beekeepers as an instructor, according to the Organization's training records. (Total Training Hours to date: 142).
2) 2011 - present	Beekeeping Training: Research Committee of AUTh (ELKE AUTh), with specific employment in beekeeping training (Project Code: 20689).
3) 06/2014	Educational seminars in agriculture, livestock, and apiculture: Research Committee of AUTh (ELKE AUTh), with specific employment in beekeeping training (Project Code: 90441).
4) 06/2014	Apiculture Seminar: Research Committee of AUTh (ELKE AUTh), with specific employment in beekeeping training (Project Code: 91079).
5) 05-08/2019	Conducting specific beekeeping seminars within the framework of the implementation of the 2017-2019 apiculture program for the year 2019: Research and Management Committee of ELKE AUA, with specific employment in teaching seminars to beekeepers of Cyprus (Project Code: 16.0003).

PROFESSIONAL EXPERIENCE

1) 06-12/2008	OPEKEPE: Payment and Control Agency for Guidance and Guarantee Community Aid – Regional Directorate of Eastern Macedonia. Agronomist. Type of Employment: Fixed-Term Contract.
2) 2008 - present	Apiculture – Sericulture Laboratory, AUTh: Laboratory/Scientific Associate of the Apiculture Sericulture Laboratory, School of Agriculture. Participation in research programs.

3) 2011- 2025	ELGO DIMITRA: Accelerated training of adult beekeepers of ELGO - DIMITRA.
4) 2018 - 2025	Teaching courses in Higher Education Institutions: Teaching courses and research work at the Departments of Agriculture AUTh, Agricultural Technologists, Animal Production Science, and Agro-technology of the University of Thessaly.
5) 05-08/2019	Conducting specific beekeeping seminars within the framework of the implementation of the 2017-2019 apiculture program for the year 2019: Research and Management Committee of ELKE AUA, with specific employment in teaching seminars to beekeepers of Cyprus (Project Code: 16.0003).
6) 2022 - 2023	University of Western Macedonia: Laboratory/Scientific Associate, University of Macedonia.
7) 07/2026 – present	Assistant Professor, Division of Horticulture and Viticulture, School of Agriculture, AUTh.

PUBLICATIONS IN PEER-REVIEWED JOURNALS

A) Papers Published in Peer-Reviewed Journals

1. Tananaki Chr., **Kanelis D.**, Liolios V., Dimou M., Goras G., Thrasyvoulou A. (2014). Green ''Honey'' from Kiwi plants. Bee World 91 (3) : 68-69. https://doi.org/10.1080/0005772X.2014.11417607

2. Dimou M., Tananaki Chr., Goras G., **Kanelis D.**, Thrasyvoulou A. (2014) The effect of pollen supplements on the determination of the geographical origin of royal jelly. Journal of Apicultural Research 53(1):124-128. https://doi.org/10.3896/IBRA.1.53.1.13

3. **Kanelis D.**, Tananaki Chr., Liolios V., Dimou M., Goras G., Rodopoulou M. A., Karazafiris E., Thrasyvoulou A. (2016) A suggestion for royal jelly specifications. Archives of Industrial Hygiene and Toxicology 66 : 275-284. https://doi.org/10.1515/aiht-2015-66-2651

4. Goras G, Tananaki Chr., Gounari S., Dimou M., Lazaridou E., Karazafiris E., Kanelis D, Liolios V., El Taj H., Thrasyvoulou A. (2016). Hyperthermia -a non-chemical control strategy against Varroa. Journal of the Hellenic Veterinary Medical Society, 66 (4): 249-256.

5. Liolios V., Tananaki Chr., Dimou M., **Kanelis D.**, Goras G, Karazafiris E., Thrasyvoulou A. (2016). Ranking pollen from bee plants according to their protein contribution to honey bees. Journal of Apicultural Research. 54 (5) : 582-592. https://doi.org/10.1080/00218839.2016.1173353

6. Goras G., Tananaki Chr., Gounari S., Lazaridou E., **Kanelis D.**, Liolios V., Karazafiris E., Thrasyvoulou A. (2016). Rearing drones in queen cells of Apis mellifera honey bees. Journal of Apicultural Science. 60 (2) : 119-128. https://doi.org/10.1515/jas-2016-0033

7. Goras G., Ruether I.G.A., Tananaki Chr., Gounari S., Liolios V., **Kanelis D.**, Argena N., Rodopoulou M.A., Karazafiris Em., Thrasyvoulou A. (2017). Characterization of a novel recombination event in the Deformed wing bee virus polymerase gene. Journal of the Hellenic Veterinary Medical Society, 68 (4): 661-668.

8. Rodopoulou M.A., Tananaki Chr., Dimou M., Liolios V., **Kanelis D.**, Goras G., Thrasyvoulou A. (2017). The determination of the botanical origin in honeys with over-represented pollen: combination of melissopalynological, sensory and physicochemical analysis. Journal of the science of food and agriculture 98 (7) : 2705-2712. https://doi.org/10.1002/jsfa.8764

9. Pina A., Begou O., **Kanelis D.**, Gika H., Kalogiannis St., Tananaki Ch., Theodoridis G., Zotou A. (2018). Targeted profiling of hydrophilic constituents of royal jelly by Hydrophilic Interactions Liquid Chromatography-tandem Mass Spectrometry. Journal of Chromatography A. 1531 : 53-63. https://doi.org/10.1016/j.chroma.2017.11.019

10. Thrasyvoulou A., Tananaki Ghr., Goras G., Karazafiris E., Dimou M., Liolios V., **Kanelis D.**, Gounari S. (2018). Legislation of honey criteria and standards. Journal of Apicultural Research. 57 (1) : 88-96. https://doi.org/10.1080/00218839.2017.1411181

11. **Kanelis D.**, Tananaki Chr., Liolios V., Rodopoulou M.A., Goras G., Argena N., Thrasyvoulou A. (2018). Investigating the effect of supplementary feeding in carbohydrate composition and quantity of royal jelly. Open Journal of Applied Sciences 8 (4) : 275-284. DOI: 10.4236/ojapps.2018.84011

12. Liolios V., Tananaki Chr., Dimou M., **Kanelis D.**, Rodopoulou M.A., Thrasyvoulou A. (2018). Exploring the sugar profile of unifloral bee-collected pollen using high performance liquid chromatography. Journal of Food and Nutrition Research 57 (4) : 341-350.

13. Tananaki C., Thrasyvoulou A., **Kanelis D.**, Liolios V. (2018). Quantitative and Qualitative variations in propolis collection. Journal of Apitherapy and Nature, 1 (3) : 72

14. Liolios V., Tananaki Chr., Papaioannou A., **Kanelis D.**, Rodopoulou M.A., Argena N. (2019). Mineral content in monofloral bee pollen: investigation of the effect of the botanical and geographical origin. Journal of Food Measurement and Characterization 13 : 1674-1682. https://doi.org/10.1007/s11694-019-00084-w

15. Virgiliou Chr., **Kanelis D.**, Pina A., Gika H., Tananaki Chr., Zotou A., Theodoridis G. (2020). A targeted approach for studying the effect of sugar bee feeding on the metabolic profile of Royal Jelly. Journal of Chromatography A 1616 : 460783. (Equal contribution author) https://doi.org/10.1016/j.chroma.2019.460783

16. Argena N., Tananaki C., Thrasyvoulou A., Goras G., **Kanelis D.**, Liolios V. (2021). Seasonal variation on bee venom collection. The impact on some biological aspects on Apis mellifera. Journal of the Hellenic Veterinary Medical Society, 72 (2) : 2861-2868

17. Campos M., Anjos O., Chica M., Pascual Campoy, Nozkova J., Almaraz-Abarca N., Barreto L., Nordi J., Estevinho L., Pascoal A., Branco Paula V., Chopina A., Dias L.G., Tešić Z., Mosić M., Kostić A., Pešić M., Milojković-Opsenica D., Sickel W., Ankenbrand M., Grimmer G., Steffan-Dewenter I., Keller A., Förster F, Tananaki C., Liolios V., **Kanelis D.**, Rodopoulou M.A., Thrasyvoulou A., Paulo L., Kast C, Lucchetti M., Glauser G, Lokutova O., Almeida-Muradian L.B., Szczęsna T, Carreck N. (2021). Standard methods for pollen research, Journal of Apicultural Research, 60:4, 1-109, https://doi.org/10.1080/00218839.2021.1948240

18. Tananaki Ch., Liolios V., **Kanelis D.**, Rodopoulou M.A. (2022). Investigation of volatile compounds in combination with multivariate analysis for the characterization of monofloral honeys. Applied Sciences (Switzerland). 12 (1) : 264

19. Rodopoulou M.A., Tananaki C., **Kanelis D.**, Liolios V., Dimou M., Thrasyvoulou A. (2022). A chemometric approach for the differentiation of 15 monofloral honeys based on physicochemical parameters. Journal of the Science of Food and Agriculture, 102 (1) : (139-146). https://doi.org/10.1002/jsfa.11340

20. Stefas D., Gyftokostas N., Kourelias P., Nanou E., Tananaki C., **Kanelis D.**, Liolios V., Kokkinos V., Bouras C., Couris S. (2022). Honey discrimination based on bee feeding by Laser Induced Breakdown Spectroscopy. Food Control, 134 : 108770. https://doi.org/10.1016/j.foodcont.2021.108770

21. Liolios V., Tananaki Ch., **Kanelis D.**, Rodopoulou M.A. (2022). Effect of geographical origin on lipid content and fatty acids composition of bee-collected pollen. Journal of Apicultural Research 63 (1) 103-111. https://doi.org/10.1080/00218839.2022.2041224

22. Karazafiris E., **Kanelis D.**, Tananaki Ch., Goras G., Menkissoglu-Spiroudi U., Rodopoulou M.A., Liolios V., Argena N., Thrasyvoulou A. (2022). Assessment of synthetic acaricide residues in royal jelly. Journal of Apicultural Research 63 (4) 762 – 768. (Equal contribution author). https://doi.org/10.1080/00218839.2022.2048948

23. Tsavea E., Vardaka F. P., Savvidaki E., Kellil A., **Kanelis D.**, Bucekova M., Grigorakis S., Godogikova J., Gotsiou P., Dimou M., Loupassaki S., Remoundou I., Tsadila C., Dimitriou T., Majtan J., Tananki C., Allisandrakis E., Mossialos D. (2022). Physicochemical Characterization and Biological Properties of Pine Honey Produced across Greece. Foods, 11 (7) : 943. https://doi.org/10.3390/foods11070943

24. Goras G., Tananaki Ch., Liolios V., **Kanelis D.**, Tofaris Ch., Giannouris E., Argena N., Gounari S., Rodopoulou M.A., Thrasyvoulou A. (2020). Conflict between avian predators and domestic honey bees: A case study of European bee-eater (Merops apiaster L.) predating on the honey bee (Apis mellifera L.) in Cyprus. Journal of Apicultural Research 62 (5), 1115-1120. https://doi.org/10.1080/00218839.2022.2069642

25. **Kanelis D.**, Liolios V., Tananaki C., Rodopoulou M.A. (2022). Determination of carbohydrate profile and invertase activity of adulterated honeys after bee feeding. Applied Sciences (Switzerland). 12 (7) : 3661 https://doi.org/10.3390/app12073661

26. Liolios V., **Kanelis D.**, Tananaki C., Rodopoulou M.A. (2022). A comparative study of healthy and American Foulbrood – Infected bee brood (Apis mellifera L.) through the investigation of volatile compounds (Equal contribution author). Agriculture (Switzerland). 12 (6) : 812 https://doi.org/10.3390/agriculture12060812

27. Liolios V., **Kanelis D.**, Tananaki C., Rodopoulou M.A. (2022). The microbiological quality of fresh bee pollen during the harvesting process. Journal of Apicultural Research. 63 (1), 92-102 https://www.tandfonline.com/doi/full/10.1080/00218839.2022.2140924

28. **Kanelis D.**, Tananaki C., Liolios V., Rodopoulou M.A. (2022). Evaluation of oxalic acid with glycerin efficacy against Varroa destructor (Varroidae): A four year assay. Journal of Apicultural Research. 63 (5), 847-855 https://doi.org/10.1080/00218839.2023.2169368

29. Liolios V., **Kanelis D.**, Rodopoulou M.A., Tananaki C. (2023). A Comparative Study of Methods Recording Beekeeping Flora. Forest. 14 (8) : 1677 https://doi.org/10.3390/f14081677

30. Grammalidis N., Stergioulas A., Avramidis A., Karystinakis K., Partozis A., Topaloudis A., Kalantzi G., Tananaki C., **Kanelis D.**, Liolios V., Madesis (2023). A smart beekeeping platform based on remote sensing and artificial intelligence, Proc. SPIE 12786, 9th International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2023), 127860C (21 September 2023); Event: Ninth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2023), 2023, Ayia Napa, Cyprus https://doi.org/10.1117/12.2681866

31. Stergioulas A., Grammalidis N., **Kanelis D.**, Liolios V., Tananaki C. (2023). LavenderVision: a dataset and methodology for lavender bloom detection using Sentinel-2 data, Proc. SPIE 12786, 9th International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2023), 127860B (21 September 2023); Event: Ninth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2023), 2023, Ayia Napa, Cyprus https://doi.org/10.1117/12.2681856

32. **Kanelis D.**, Liolios V., Papadopoulou F., Rodopoulou M.A., Kampelopoulos D., Siozios k., Tananaki C. (2023). Decoding the behavior of a queenless colony using sound signals. Biology 12 (11) : 1392. https://doi.org/10.3390/biology12111392

33. **Kanelis D.**, Liolios V., Rodopoulou M.A., Papadopoulou F., Tananaki C. (2024) Production and Quality Characteristics of Royal Jelly in Relation to Available Natural Food Resources. Resources 12 (4) 55. https://doi.org/10.3390/resources13040055

34. Tananaki C., Rodopoulou M.A., Dimou M., **Kanelis D.**, Liolios V. (2024). The Total Phenolic Content and Antioxidant Activity of Nine Monofloral Honey Types. Applied Sciences 14 (10) 4329 https://doi.org/10.3390/app14104329

35. Liolios D., **Kanelis D.**, Rodopoulou M.A., Tananaki C. (2025). Investigating the effect of postharvest conditions on the microbial quality and physicochemical characteristics of bee pollen. Journal of Apicultural Research. 64 (2) 743-752. https://doi.org/10.1080/00218839.2024.2309776

36. Tananaki C., **Kanelis D.**, Liolios V., Rodopoulou M.A., Papadopoulou F. (2025). Chemical and Functional Characteristics of Strawberry Tree (Arbutus unedo L.) Honey from Western Greece. Foods 14 (9) 1473. https://doi.org/10.3390/foods14091473 (Corresponding author)

37. Liolios V., Tananaki C., **Kanelis D.**, Rodopoulou M.A., Papadopoulou F. (2025). Volatile Profile of 16 Unifloral Pollen Taxa Collected by Honey Bees (Apis mellifera L.). Insects 16 (7) 668. https://doi.org/10.3390/insects16070668

B) Papers Under Revision

38. Sidirokastritis N., **Kanelis D.**, Tananaki C., Vareltzis P. Crystallization and antibiotic residues in honey during storage after treatment with high hydrostatic pressure, ultrasound and heat. Foods and Bioproducts Processing Submission date 30-09-2024, Resubmission date after major revision: 04-06-2025

39. **Kanelis D.**, Liolios V., Rodopoulou M.A., Papadopoulou F., Tananaki C. The impact of grafted larvae and collection day in Royal Jelly's production and quality. Applied Sciences. Submission date 04-06-2024, Resubmission date after major revision: 20-06-2025 (Round 1), Resubmission date after second revision: 09-07-2025 (Round 2)

40. Liolios V., **Kanelis D.**, Rodopoulou M.A., Tananaki Ch. (2025) Effect of the botanical origin on the fat and lipid content of monofloral bee pollen. Journal of Apicultural Research. Under review.

41. Paper regarding physics/sounds.

C) Published Database Papers

C1. Tananaki C., **Kanelis D.**, Liolios V., Grammalidis N. (2023). Annotated dataset of microscope images of pollen grains from 40 beekeeping taxa. Zenodo. https://doi.org/10.5281/zenodo.10018087

C2. Tananaki C., **Kanelis D.**, Liolios V., Grammalidis N. (2023). Annotated dataset of microscope images of pollen grains in honey from 17 beekeeping taxa. Zenodo. https://doi.org/10.5281/zenodo.10017809

C3. Tananaki C., **Kanelis D.**, Liolios V., Grammalidis N. (2023). Annotated dataset of pollen pellet images from 40 major beekeeping plants. Zenodo. https://doi.org/10.5281/zenodo.10017447

D) Monographs – Online Books

D1. Effect of queen age on royal jelly production in queenright colonies. (Undergraduate Thesis)

D2. Investigation of protein content and carbohydrate composition of royal jelly by applying different beekeeping practices. (Master's Thesis)

D3. Factors affecting the physicochemical characteristics of royal jelly from Apis mellifera L. bees. (Ph.D. Thesis)

D4. Development of methodology and investigation of antibiotic residues and mild acaricides in honey. (Postdoctoral Research)

D5. Quality of Bee Products – Volume III: Chemical and Functional Characteristics of Strawberry Tree (Arbutus unedo L.) Honey from Western Greece. (2025). Edited by Liming Wu & Qiangqiang Li, FOODS - MDPI (ISSN 2304-8158) ISBN 978-3-7258-4045-8 (PDF), pages 154. https://doi.org/10.3390/books978-3-7258-4045-8

PRESENTATIONS IN INTERNATIONAL CONFERENCES

1. Goras G., Karazafiris E., **Kanelis D.**, Ionnidou M., Menkissoglu-Spiroudi U., Thrasyvoulou A. (2006). Assessment of residues detected in royal jelly after application of registered synthetic acaricides. 6th European Pesticides Residues, Workshop Corfu, Greece. (poster)
2. Liolios V., Tananaki C., Dimou M., **Kanelis D.**, Thrasyvoulou A. (2010) Protein content and sugar composition of bee-collected pollen from selected botanic origins. International Symposium on Authenticity and Quality of Bee

Products and the 2nd World Symposium on Honeydew Honey, April 7-10th, 2010 Mediterranean Agronomic Institute Chania, Crete, Greece, p. 57.

3. **Kanelis D.**, Tananaki Ch., Lazaridou E., Liolios V., Thrasyvoulou A. (2010) Parameters that affect in protein and sugar content in royal jelly. International Symposium on Authenticity and Quality of Bee Products and the 2nd World Symposium on Honeydew Honey, April 7- 10th , 2010 Mediterranean Agronomic Institute Chania, Crete, Greece, p. 65.

4. Goras G., **Kanelis D.**, Karazafiris E., Menkissoglu-Spiroudi U., Thrasyvoulou A. (2006). Comparative study of coumaphos residues detected in royal jelly collected from natural and artificial queen cells. 7th International Symposium MGPR ''Paolo Cabras'', 9-11 November, Thessaloniki, Greece, p. 9-11.

5. Thrasyvoulou A., Tananaki C., Dimou M., Karazafiris E., Goras G., Liolios B., **Kanelis D.**, (2012) Suggestion for improvements of European Legislation govering Bee Products, II International Symposium on Bee Products Bragança, Portugal, September 9-12, p. 23.

6. Tananaki Ch., **Kanelis D.**, Liolios V., Dimou M., Goras G., Thrasyvoulou A. Green honey, the first honey kiwi plants. International Symposium on Bee Products, 3rd Edition. Annual meeting of the International Honey Commission (IHC)" Opatija, Croatia. September 28 to October 01 p.80, 2014 (poster).

7. **Kanelis D.**, Tananaki Ch., Liolios V., Dimou M., Goras G. Karazafiris E. Thrasyvoulou A (2014). Factors that may affect the quality standards of royal jelly and pollen International Symposium on Bee Products, 3rd Edition. Annual meeting of the International Honey Commission (IHC)" Opatija, Croatia. September 28 to October 01, 2014 p.62.

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9. Liolios V., Tananaki Ch., Dimou M., **Kanelis D.**, Goras G., Karazafiris E., Thrasyvoulou A (2014) Sorting pollen from bee plants according to their protein contribution to honey bees. International Symposium on Bee Products, 3rd Edition. Annual meeting of the International Honey Commission (IHC)" Opatija, Croatia. September 28 to October 01, 2014 p.69.

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57. Michalakopoulou Th., Tananaki Ch., **Kanelis D.**, Liolios V. (2022). Use of plant materials in the treatment of fungal diseases of bees. 4th Panhellenic Conference of Professional Apiculture, Thessaloniki, 26-28 March.

58. Tananaki Ch., Siozios K., Siskos S., Laopoulos Th., Doumenis G., **Kanelis D.**, Ziogas M., Liolios V., Rodopoulou M.A., Kampelopoulos D., Sofiannidis I. (2022). Automated system for recording, analysis and risk assessment in hives – Applications of New Technologies and Innovative systems in the Apiculture Sector. 9th Agrotica Panhellenic Conference, Thematic section: New technologies in primary production, Thessaloniki, 22-23 October.

59. Tananaki Ch., Grammalidis N., Karystinakis K., Madesis P., **Kanelis D.**, Ziogas M., Liolios V., Rodopoulou M.A., Avramidis A. (2022). Development of a smart beekeeping activity management tool – Applications of New Technologies and Innovative systems in the Apiculture Sector. 9th Agrotica Panhellenic Conference, Thematic section: New technologies in primary production, Thessaloniki, 22-23 October.

60. **Kanelis D.** (2023). Proper beekeeping practices for queen rearing and nucleus colony creation. Apiculture Conference – Pancyprian Association of Beekeepers, Limassol, Cyprus, 27 May.

61. **Kanelis D.** (2023). Management of acaricide varroosis throughout the year and new inspection recording tools. Conference on Utilizing Information and Communication Technologies (ICT) in Apiculture. Thessaloniki, 05 July, Apiculture Laboratory.

62. **Kanelis D.** (2023). Swarming and queenlessness: characteristic acoustic signals. Conference on: Remote hive monitoring using modern recording systems. Thessaloniki, 12 October, Apiculture Laboratory.

63. **Kanelis D.** (2023). The effect of bee feeding on the secondary metabolites of royal jelly. 14th Conference of Greek Honey and Bee Products. 2-3 December 2023, Piraeus, Athens.

64. **Kanelis D.** (2024). Study of livelihood factors and performance improvement in apiculture using Information and Communication Technologies (ICT). 10th Agrotica Panhellenic Conference, RE-THINKING AGRICULTURE – Systemic approaches for the regeneration of agriculture and the countryside. 3-4 February 2024, Thessaloniki.

65. **Kanelis D.**, Papadopoulou F. (2024) Evolution of bee diseases under the influence of long-term environmental factors. 15th Conference of Greek Honey and Bee Products, Peristeri, Athens, 7-8 December.

66. **Kanelis D.**, (2025). Exploitation of strawberry tree flowering and its contribution to early royal jelly production. Conference on: Characteristics and promotion of strawberry tree honey – Rules of good beekeeping practice. 31 March, Ioannina.

67. **Kanelis D.**, Stefanou I., Lessis B., Liolios V., Papadopoulou F., Tananaki Ch. (2025). Spring Nutrition Schemes: Evaluation of Queens and Colony Growth Rate. 16th Conference of Greek Honey and Bee Products, Peristeri, Athens, 6-7 December.

68. Tananaki Ch., **Kanelis D.**, Kovousoglou E., Liolios V., Rodopoulou M.A., Papadopoulou F. (2025). Apis mellifera as a pollinator: The Case of Lavender. 16th Conference of Greek Honey and Bee Products, Peristeri, Athens, 6-7 December.

69. Liolios V., **Kanelis D.**, Rodopoulou M.A., Papadopoulou F., Tananaki Ch. (2025). Effect of Geographical Origin on the Chemical Composition of Bee-Collected Pollen. 16th Conference of Greek Honey and Bee Products, Peristeri, Athens, 6-7 December.

B) After Election to the Rank of Assistant Professor

70. **Kanelis D.** (2026). Effect of spring nutrition schemes on colony growth rate and evaluation of new queens. Conference of the Thessaloniki Beekeeping Association. 1 March, AUTh Farm, Thermi, Thessaloniki.

PARTICIPATION IN RESEARCH PROGRAMS

A) DEPUTY PRINCIPAL INVESTIGATOR IN PROGRAMS

1) 02/2019–04/2023	Project Code 94551: Quality assessment of hive products (Funded by Private Individuals), Apiculture – Sericulture Laboratory, AUTh.
2) 05/2019 - 03/2023	Project Code 98530: Identification of honey from Evrytania Region - Promotion of its quality and biological activities (Region of Central Greece), Apiculture Sericulture Laboratory, AUTh.

B) PARTICIPATION IN RESEARCH PROGRAMS AS A SCIENTIFIC ASSOCIATE

1) 11/2009-12/2017	Project Code 21270: Bee product analyses. Specific employment: hive product analyses.
2) 06/2021 & 05-06/2022	Project Codes 71450 and 73694: Effect of spatial distribution of colonies on increasing pollination force in a lavender crop aiming at reciprocal optimization of primary production. Specific employment: Beekeeping practices, study of bee visitation, and collection of plant material.
3) 05-06/2022	Project Code 73695: Integrated pollen management system using new harvesting, processing, and postharvest techniques to ensure final product quality. Specific employment: Beekeeping practices, chromatographic analyses.
4) 04/2024-05/2025	Project Code 73830: Pilot application of the “ANTIOXCERT” standard in major agri-food products. Specific employment: Laboratory research and application of instrumental techniques on the phenolic profile of honey and evaluation of honey quality characteristics.
5) 03/2024-05/2025	Project Code 74745: Strawberry tree honey: Creation of a value chain through the promotion of its special characteristics, development of an innovative promotion model, and optimization of the production process. Specific employment: Correlation between climatic conditions and colony development trajectory, contribution to

	manual and protocol development, physicochemical analyses, organoleptic control, beekeeper training, exploitation of results.
6) 04/2010-09/2011 etc.	Project Code 84715: Preservation of honey quality characteristics during processing by applying non-thermal methods. Specific employment: a) Preliminary experimental results including recommended operating conditions (WP2) b) processing of project results.
7) 08/2014, 15, 16	Project Code 91356: Physicochemical Characteristics of Special Categories of Greek Honey. Specific employment: physicochemical analyses of honey samples.
8) 08/2014, 15, 16	Project Code 91357: Identification of Greek Royal Jelly and Pollen. Specific employment: physicochemical analyses of royal jelly and pollen samples.
9) 08/2014, 15, 16	Project Code 91358: Rescue, improvement, and conservation of genetic material of Greek bee populations. Specific employment: Collection of bee samples and molecular analyses.
10) 11/2016	Project Code 93176: Implementation of the Bee-conomy action WP.3- Support and development actions for the bee product economy. Specific employment: Beekeeper training.
11) 08/2018- present	Project Code 94551: Quality assessment of hive products. Specific employment: Analyses of hive products.
12) 05/2024	Project Code 94604: Hive product analyses on foreign samples. Specific employment: Performing chromatographic analyses of honey.
13) 07/2018 & 19	Project Codes 96898 and 98759: Use of bee products in innovative foods. Specific employment: Analysis of hive products.
14) 07/2018 & 19	Project Codes 96900 and 98758: Biological activities of bee products. Specific employment: Analysis of hive products.
15) 10/2022-03/2023	Project Code 98530: Identification of honey from Evrytania Region - Promotion of its quality and biological activities. Specific employment: Determination of carbohydrates in honey samples.
16) 11/2019-03/2021	Project Code 98693: Bee Protection - Pests, diseases, and toxic factors (Subproject 2). Specific employment: a) Colony management, diagnosis, and treatment of bee diseases, b) application of chromatographic techniques, c) participation in result dissemination, d) beekeeping practices for disease control at field and laboratory levels.
17) 04 – 11/2021	Project Code 98695: Identification - Promotion of Greek Honey (Subproject 1). Specific employment: Development, validation, and application of instrumental honey analysis techniques.
18) 01/2022-10/2023	Project Code 99867: Study of livelihood factors and performance improvement in apiculture using advanced Information and Communication Technologies. Specific employment: Research and application of specialized beekeeping practices for developing an early warning system to address beekeeping problems.
19) 07-08/2023	Project Code 99868: Development of a smart beekeeping activity management tool. Specific employment: Pilot mapping of beekeeping flora in targeted beekeeping areas

and final assessment, beekeeping practices, evaluation of plant recognition applications, result dissemination.

20) 05/2022-05/2023 Project Code 80753 (University of Western Macedonia): Scientific investigation of causal relationship between Kastoria honey characteristics and its geographical origin. Specific employment: Auxiliary research work.

C) PARTICIPATION IN EDUCATIONAL PROGRAMS AS A SCIENTIFIC ASSOCIATE (Relevant certificates provided)

1) 01/2011-03/2024 Project Code 20689: Beekeepers Training, with specific employment: a) beekeeper training, b) training of beekeepers in the fields of seasonal beekeeping practices, bee pathology, and queen rearing/royal jelly production.

2) 06/2014 Project Code 90441: Educational seminars in agriculture, livestock, and apiculture. Specific employment: Beekeeper training.

3) 06/2014 Project Code 91079: Seminar: Apiculture. Specific employment: Beekeeper training.

4) 05-08/2019 Project Code 16.0003: Conducting specific beekeeping seminars for beekeepers of Cyprus, Agricultural University of Athens.

RESEARCH INTERESTS

- **Practical Apiculture:** Includes the beekeeping practices required both for the production of hive products (e.g., royal jelly and honey) and for ensuring the safe livelihood of bees. Both my master's thesis and my Ph.D. thesis were carried out in this research field, with simultaneous participation in other research areas of apiculture. Specifically, a multitude of royal jelly samples—the most demanding hive product regarding beekeeping practices—were produced under different feeding conditions or different production conditions. Finally, my postdoctoral research involved standard beekeeping practices used by beekeepers daily to combat the most significant bee enemy, Varroa.
- **Bee Nutrition:** Based on the results of my work related to bee nutrition, it is evident that this scientific field can now be considered the most important in applied apiculture, as it has a direct impact on the livelihood of bees and the quality of produced products. It constituted a significant part of both my Ph.D. and master's degrees, upon which all beekeeping practices applied to the colonies and all sample analyses were based. Papers published in this specific research field in peer-reviewed journals numbered 11, followed by over 30 papers related to both international and national conferences, alongside continuous active participation in related programs.
- **Quality of Hive Products:** Includes the instrumental analysis of produced samples under different production conditions and the impact of beekeeping practices on hive product quality.
- **Development of Analytical Methods:** Includes the development of all methods required for analyzing the produced samples. This can be considered perhaps one of the most important sectors, since without sample analysis it would be impossible to monitor results regarding the quality of bee products. All instrumental analyses within my research were developed from scratch using the instruments of the AUTh Apiculture Laboratory. Furthermore, there is close collaboration with the Department of Chemistry (Laboratory of Analytical Chemistry), the Department of Chemical Engineering AUTh, specifically with Assistant Professor Christina Virgiliou (Laboratory of Analytical Chemistry and Biomolecular Engineering), as well as with the FoodOmicsGr research infrastructure, for analyzing royal jelly and honey samples and determining their metabolomic profile.
- **Disease Management:** One of the most important sectors of Applied Apiculture. Within my postdoctoral research, interventions were performed on colonies using both chemical and organic formulations as applied by beekeepers in practice. At the same time, for the first time globally, the ideal concentration of oxalic acid for

preparing glycerin strips was determined—a dosage and methodology free for any beekeeper to use (Relevant published paper). Study of oxalic acid decomposition during the preparation of glycerin solutions and residue persistence in honey after application (Relevant published papers). Active participation in the flagship action program: Paths of the Bee (Subproject II) – Bee Protection, Pests, Diseases, and Toxic Factors, studying most bee diseases (American Foulbrood, Nosemosis, Ascosphaerosis, Varroa-vectored viruses) (Relevant published papers).

- **Development of Adulteration Detection Methods – Legislation:** Another important aspect concerning beekeepers is the detection of product adulteration. Modern tools such as the analysis of secondary metabolites or other components combined with traditional analytical methods can lead to safe conclusions regarding product quality. The data for establishing the national quality limits of royal jelly by the Supreme Chemical Council (SCC) of the state emerged from the results of my master's and doctoral theses, where for the first time the term Royal Jelly was introduced into the food and beverage code with SCC decision number 47/2016. The decision to introduce Royal Jelly into the food code was published in Government Gazette (FEK) 3416/10-08-2018.
- **Use of GIS Systems:** Pilot mapping of areas in Thessaloniki with beekeeping flora and prediction of the flowering period of important beekeeping areas (LavBee Program). Development of modern methodology for identifying plants, pollen grains, and pollen pellets (Relevant published papers in international and national conferences). Collaboration with the Information Technologies Institute, CERTH, Senior Researcher Nikolaos Grammalidis. Collaboration for the pilot mapping of beekeeping flora in the prefecture of Thessaloniki (Flagship Action: Paths of the Bee) and the development of a smart beekeeping activity management tool (SmartBeeKeep).
- **Development of Innovative Beekeeping Equipment:** Creation of an automated system for recording colony acoustic responses to various natural phenomena (e.g., queen loss). Collaboration with the Department of Electronics and Computers, School of Physics AUTh, Associate Professor Konstantinos Siozios, within the framework of the advanced hive development program using modern Information and Communication Technologies (SMARTBEEing).
- **Contamination of Hive Products:** Analysis of royal jelly and honey samples aiming to detect chemical and organic residues (Relevant published papers). Development of instrumental techniques for analysis and residue determination.
- **National Accreditation System – ISO 17025:** Active analyst in the quality system of the AUTh Apiculture Laboratory since 2011. Participation in determining HMF (MD-03/HMF) and diastase (MD-02/D) in honey samples, analysis of bee genetic material for breed determination (MD-06/DNA).
- **Molecular Analyses:** Molecular analyses of bee samples and determination of deformed wing virus in bees (Relevant published papers).

SCIENTIFIC ACTIVITIES / PEER REVIEWING

A) Participation as a peer reviewer in journals with Impact Factor for 49 manuscripts under publication in subjects related to the specialization of Apiculture. ORCID Profile: https://orcid.org/0000-0001-7736-4783.
In detail, the journals in which manuscript reviews were performed are:

- **Agriculture:** Publisher**:** MDPI, Peer review of 4 manuscripts in total
- **Animals:** Publisher: MDPI, Peer review of 5 manuscripts in total
- **Antioxidants:** Publisher: MDPI, Peer review of 2 manuscripts in total
- **Applied Sciences:** Publisher: MDPI, Peer review of 3 manuscripts in total
- **Fermentation:** Publisher: MDPI, Peer review of 1 manuscript in total
- **Foods:** Publisher: MDPI, Peer review of 1 manuscript in total
- **Forests:** Publisher: MDPI, Peer review of 2 manuscripts in total

- **Insects:** Publisher: MDPI, Peer review of 5 manuscripts in total
- **International Journal of Molecular Sciences:** Publisher: MDPI, Peer review of 3 manuscripts in total
- **Journal of Apicultural Research:** Publisher: Taylor & Francis, Peer review of 3 manuscripts in total
- **Life:** Publisher: MDPI, Peer review of 4 manuscripts in total
- **Microorganisms:** Publisher: MDPI, Peer review of 3 manuscripts in total
- **Molecules:** Publisher: MDPI, Peer review of 4 manuscripts in total
- **Pathogens:** Publisher: MDPI, Peer review of 1 manuscript in total
- **Pharmaceuticals:** Publisher: MDPI, Peer review of 1 manuscript in total
- **Plants: Publisher:** MDPI, Peer review of 3 manuscripts in total
- **Resources: Publisher:** MDPI, Peer review of 1 manuscript in total
- **Sustainability: Publisher:** MDPI, Peer review of 1 manuscript in total
- **The European Zoological Journal:** Publisher: Taylor & Francis, Peer review of 1 manuscript in total
- **Toxics:** Publisher: MDPI, Peer review of 1 manuscript in total

B) Participation as Guest Editor in the journal Biology – MDPI, with an Impact Factor for 2025 IF: 3.5, for the special issue titled ''The biology and behavior of Bees''
Relevant link: https://www.mdpi.com/journal/biology/special_issues/WO1YO5F00W

Total Citations (Scopus): 865
h-Index: 16

Journal	Impact Factor	Papers/ Journal
Journal of Apicultural Research	2,584	10
Foods	4,121	2
Food Control	5,548	1
Applied Sciences	2,838	3
Archives of Industrial Hygiene and Toxicology	2,078	1
Journal of the Hellenic Veterinary Medical Society	0,516	3
Journal of the science of food and agriculture	2,614	2
Journal of Chromatography A	4,759	2
Open Journal of Applied Sciences (GIF)	0,800	1
Journal of Food and Nutrition Research	1,333	1
Journal of Food Measurement and Characterization	2,431	1
Agriculture	3,490	1
Journal of Apicultural Science	0,788	1
Bee World	-	1
Biology	4.200	1
Forests	2.900	1
Proceedings of SPIE – The International Society for Optical Engineering	0.370	2
Resources	3.300	2
Journal of Apitherapy and Nature	1,280	1
Journal of Invertebrate Pathology	2.400	1
Food and Bioproducts Processing	4.700	1
Electronics	2.900	1
Total:	-	38