



## Mihaiela Cornea-Cipcigan

### WORK EXPERIENCE

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#### Member of international research projects

##### 2019-2022

Project no. **26.526/07.12.2017** – Identification of the botanical origin of different biological samples sent by the CARI asbl laboratory (Belgium), designing an international database and research of the flora from different exotic kingdoms

##### 2021 – 2022

ERANET 2021 COFOUND - **SusCrop 237/2021** – Development of novel breeding technology for improved root system, drought tolerance and sustainable plant productions

### EDUCATION AND TRAINING

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#### PhD in Horticulture

*University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca* [ 01/10/2017 – Current ]

#### Forest ecosystem management (Master's Degree)

*Faculty of Horticulture, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca* [ 01/10/2015 – 30/06/2017 ]

#### Environmental protection Engineering Diploma (Bachelor's Degree)

*Faculty of Agriculture, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca* [ 01/10/2011 – 30/06/2015 ]

#### Diploma of participation at Vertical Farming Workshop with Zjef van Acker

[ 29/01/2018 – 30/01/2018 ]

Address: UASVM Cluj-Napoca, Romania,

#### Seminar HPLC Troubleshooting by Phenomenex, Presented by Heiko Behr

*European Pharmaceutical Senior Business Development Manager* [ 26/10/2018 ]

Address: Phenomenex Ltd. Deutschland,

#### Diploma of participation at Food: The human diet round table and science cafe

*Organized by Prof. Andrei D. Mihalca PhD* [ 18/01/2019 ]

Address: UASVM Cluj-Napoca, Romania,

#### How to get published: An author workshop with Food Chemistry: Molecular Sciences

*Presented by Jennifer Wood, Publisher, Siân Astley, Editor* [ 04/02/2021 ]

#### Using AI to match your abstract to the right journal

*Presented by Hannah Foreman, Researcher Academy, Elsevier* [ 31/03/2022 ]

### LANGUAGE SKILLS

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Mother tongue(s): Romanian

#### Other language(s):

##### English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

##### French

LISTENING B1 READING B1 WRITING A1

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

## DIGITAL SKILLS

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Operating knowledge of Microsoft Office programs (Word, Excel, PowerPoint, Access) / PAST Software / XLstat / Good knowledge of ImageJ software / BioRender / EndNote Software / Mendeley software / R/Rstudio

## PUBLICATIONS

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### ISI Publications as first or corresponding author

**Cornea-Cipcigan M**, Pamfil D, Sisea CR, Margaoan, Characterization of Cyclamen genotypes using morphological descriptors and DNA molecular markers in a multivariate analysis, *Frontiers in Plant Science*, **2023** (IF: 6.627)

**Cornea-Cipcigan M**, Cordea MI, Mărgăoan R, Pamfil D, Exogenously Applied GA3 Enhances Morphological Parameters of Tolerant and Sensitive *Cyclamen persicum* Genotypes under Ambient Temperature and Heat Stress Conditions, *Plants*, **2022** (IF: 4.658, Q1)

**Cornea-Cipcigan M**, Bunea A, Bouari CM, Pamfil D, Páll E, Urcan AC, Mărgăoan R, Anthocyanins And Carotenoids Characterization In Flowers And Leaves Of Cyclamen Genotypes Linked With Bioactivities Using Multivariate Analysis Techniques, *Antioxidants*, **2022** (IF: 6.313, Q1)

**Cornea-Cipcigan M**, Pamfil D, Sisea CR, and Mărgăoan R, Gibberellic Acid Can Improve Seed Germination and Ornamental Quality of Selected Cyclamen Species Grown Under Short and Long Days, *Agronomy*, **2020** (IF: 2.259, Q1)

**Cornea-Cipcigan M**, Pamfil D, Sisea CR, Gavriş CP, Campos MG and Mărgăoan R, A review on Cyclamen species: Transcription factors vs. Pharmacological effects, *Acta Poloniae Pharmaceutica*, **2019**, (IF: 0.456, Q4)

Sarioğlu-Bozkurt A, Topal E, Güneş N, Üçeş E, **Cornea-Cipcigan M**, Coşkun İ, Cuiş L, Mărgăoan R., Changes in Vitellogenin (Vg) and Stress Protein (HSP 70) in Honey Bee (*Apis mellifera anatoliaca*) Groups under Different Diets Linked with Physico-Chemical, Antioxidant and Fatty and Amino Acid Profiles, *Insects* **2022**, (IF: 3.139, Q1), (shared first authorship)

Barta DG, **Cornea-Cipcigan M**, Mărgăoan R, Vodnar DC. Biotechnological Processes Simulating the Natural Fermentation Process of Bee Bread and Therapeutic Properties—An Overview, *Frontiers in Nutrition*, **2022** (IF: 6.575, Q1) (shared first authorship)

Mărgăoan R, Topal E, Balkanska R, Yücel B, Oravec T, **Cornea-Cipcigan M\***, Vodnar DC. Monofloral Honeys as a Potential Source of Natural Antioxidants, Minerals and Medicine. (\*Corresponding author), *Antioxidants*, **2021** (IF: 6.313, Q1)

Mărgăoan R, Özkök A, Keskin Ş, Mayda N, Urcan AC, **Cornea-Cipcigan M\***, Bee collected pollen as a value-added product rich in bioactive compounds and unsaturated fatty acids: A comparative study from Turkey and Romania, *LWT*, **2021** (IF: 4.952, Q1)

Topal E, Adamchuk L, Negri I, Kösoğlu M, Papa G, Dârjan MS, **Cornea-Cipcigan M\***, Mărgăoan R. Traces of Honeybees, Api-Tourism and Beekeeping: From Past to Present, *Sustainability*, **2021** (IF: 3.251, Q2)

Margaoan R, **Cornea-Cipcigan M\***, Topal E\*, Kösoğlu M, Impact of Fermentation Processes on the Bioactive Profile and Health-Promoting Properties of Bee Bread, Mead and Honey Vinegar. *Processes*, **2020** (IF: 2.753, Q2)

Mărgăoan R, Stranţ M, Varadi A, Topal E, Yücel B, **Cornea-Cipcigan M\***, Campos MG, Vodnar DC. Bee collected pollen and bee bread: Bioactive constituents and health benefits. *Antioxidants*, **2019** (IF: 4.520, Q1)

### ISI Publications as co-author

Hârţa M, Clapa D, **Cornea-Cipcigan M**, Borsai O, Pop R, & Cordea MI. Multivariate Assessment of Genetic Relationships between Two *Streptocarpus* Cultivars and Their F1 Progenies Using Morphological Characteristics and SCoT Molecular Markers. *Horticulturae*, **9**(4), 497, **2023** (IF: 2.923, Q1)

Topal E, Çakici N, Margaoan R, Takma Ç, Güney F, Kösoğlu M, **Cornea-Cipcigan M** & Atmaca H. Annual Development Performance of Fixed Honeybee Colonies linked with Chemical and Mineral Profile of Bee Collected Pollen, *Chemistry & Biodiversity*, **2022** (IF: 2.745, Q3)

Koşum N, Yücel B, Kandemir Ç, Taşkin T, Duru ME, Küçükaydin S, Margaoan R, & **Cornea-Cipcigan M**. Chemical composition and androgenic effect of bee drone larvae (Apilarnil) for goat male kids. *Chemistry & Biodiversity*, **2022** (IF: 2.745, Q3)

Kentelky E, Szekely-Varga Z, Morar IM, & **Cornea-Cipcigan M**, Morphological Responses of Viola Accessions to Nutrient Solution Application and Electrical Conductivity, *Plants*, **2022** (IF: 3.935, Q1)

Mureşan CI, **Cornea-Cipcigan M**, Suharoschi R, Erler S, & Mărgăoan R. Honey botanical origin and honey-specific protein pattern: Characterization of some European honeys, *LWT*, **2022** (IF: 4.952, Q1)

Urcan AC, Criste AD, Dezmirean DS, Bobiş O, Bonta V, Dulf F.V, Mărgăoan R, **Cornea-Cipcigan M**, & Campos MG. Botanical origin approach for a better understanding of chemical and nutritional composition of beebread as an important value-added food supplement. *LWT*, **2021** (IF: 4.006, Q1)

Bobiş O, Bonta V, **Cornea-Cipcigan M**, Nayik G.A, And Dezmirean D.S. Bioactive Molecules for Discriminating Robinia and Helianthus Honey: High-Performance Liquid Chromatography–Electron Spray Ionization–Mass Spectrometry Polyphenolic Profile and Physicochemical Determinations, *Molecules*, **2021** (IF: 4.411, Q2)

Mărgăoan R, Chirilă F, and **Cornea-Cipcigan M**. Bee pollen methanolic extracts: total polyphenols content and antibacterial activity. *Scientific Papers. Series D. Animal Science*, **2021 (ISI journal)**

### Book chapters

**Cornea-Cipcigan M.** and Pamfil D. *Cyclamen Breeding* in *Advances in Plant Breeding Strategies* Vol 14 Ornamental Landscaping Plants **Part II Ornamental potted plants**, **2023**, (Forthcoming Issue)

Margaoan R. and **Cornea-Cipcigan M**. *Neuroprotection induced by honey compounds* in *Natural Molecules in Neuroprotection and Neurotoxicity* Part II. Neuroprotection mediated by natural molecules, Academic Press, **2023** (Forthcoming issue)

Margaoan R. and **Cornea-Cipcigan M**. *Carotenoids and vitamins of bee collected pollen* in *Pollen Chemistry and Biotechnology*, Springer Nature, **2023**, (Forthcoming issue)

### BDI Publications

**Cornea-Cipcigan M** & Pamfil D. Expression Effects of CHI and CHS Genes and Colchicine Treatment in Yellow Flowered Cyclamen: a Review. *BUASVM Cluj-Napoca. Horticulture*, **2019**, 76(1), 1-10.

Topal E, **Cornea-Cipcigan M**, Tunca RI, Kösoğlu M, Mărgăoan R. The Use of Medicinal Aromatic Plants Against Bee Diseases and Pests, *Bee Studies*, **2020**, 12(1), 5-11.

Topal E, Ceylan Ö, Kösoğlu M, Mărgăoan R. & **Cornea-Cipcigan M**. Structure, Usage Areas and Main Problems of Bees Wax (Bal mumunun yapisi, kullanım alanlari ve bazi temel sorunlari), *Uludağ Arıcılık Dergisi*, **2020**, 20(2), 209-220.

Mărgăoan R, Aradăvoaicei Ş, **Cornea-Cipcigan M\***, & Sisea C.R. The Role of Pollinators in Maintaining the Biodiversity of Some Exotic Cultures. *International Journal of Environmental Research and Technology*, **2019**, 2(1), 17-23.

## CONFERENCES AND SEMINARS

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### Invited Speaker

[ 11/05/2023 – 13/05/2023 ]

7<sup>th</sup> Conference on Horticulture and Landscape Architecture in Transylvania, The Anniversary Symposium of the Horticultural Engineering and Landscape Architecture Study Programs, May 11-13, 2023, Târgu Mureş, Romania

### Conferences participation as first author

**Cornea-Cipcigan M**, Pamfil D, Margaoan R, *Thermography-Based Assessment to Confirm Genotypic Variation for Abiotic Stress Response in Cyclamen*, INTERNATIONAL CONGRESS ON BIOLOGICAL AND HEALTH SCIENCES, February 24-27, 2022, Turkey, POSTER

**Cornea-Cipcigan M.**, Sisea CR, Pop R., Dhooghe E, De Keyser E, Aurori A., *Recent developments regarding drought-tolerant sunflower using transformation with Rhizobium rhizogenes* The 20<sup>th</sup> International Conference "Life Sciences For Sustainable Development", 23<sup>rd</sup>– 24<sup>th</sup> September 2021, Cluj-Napoca, Romania, ORAL PRES.

**Cornea-Cipcigan M.**, Pamfil D, Sisea CR, Mărgăoan R, *Changes In Growth And Physiological Parameters Of Cyclamen Accessions Following An Exogenous Application Of Gibberellic Acid*, The 19<sup>th</sup> International Conference "Life Sciences For Sustainable Development", 24<sup>th</sup>– 25<sup>th</sup> September 2020, Cluj-Napoca, Romania; POSTER

**Cornea-Cipcigan M.**, Sisea CR, Pop R, Pamfil D, Szekely-Varga Z, Mărgăoan R, *Effects Of Gibberellic Acid And Photoperiod On Seed Germination Of Cyclamen Species*, The 18<sup>th</sup> International Conference "LIFE SCIENCES FOR SUSTAINABLE DEVELOPMENT", 26<sup>th</sup>– 28<sup>th</sup> September 2019, Cluj-Napoca, Romania; POSTER

**Cornea-Cipcigan M**, Pamfil D, *Chalcone compounds painting yellow Cyclamen persicum*, 2018, The 17<sup>th</sup> International Symposium "Prospects for the 3<sup>rd</sup> Millennium Agriculture, University of Agricultural Sciences & Veterinary Medicine Cluj-Napoca, Horticulture, Romania; POSTER

### Conferences participation as co-author

Mărgăoan R, Özkök A, Keskin Ş, Mayda N, Urcan AC, **Cornea-Cipcigan M.\***, Bee Collected Pollen From Romania and Turkey as a Value-Added Product, INTERNATIONAL CONGRESS ON BIOLOGICAL AND HEALTH SCIENCES, February 24-27, 2022, Turkey, POSTER

Mărgăoan R., **Cornea-Cipcigan M.**, Bonta, V., Zacharia, I., Study Regarding the Minerals Content, Amino Acids and Energetical Value in Three Monofloral Bee Collected Pollen, *International Congress on Biological and Health Sciences*, Turkey, Online meeting, February 26-28, 2021-POSTER

Mărgăoan R., **Cornea-Cipcigan M.**, Bee pollen methanolic extracts: total polyphenols content and antibacterial activity, 10<sup>th</sup> Anniversary Edition of the International Conference "Agriculture for Life, Life for Agriculture", organized by the University of Agronomic Sciences and Veterinary Medicine of Bucharest, 3<sup>rd</sup> and 5<sup>th</sup> June 2021 – ORAL PRES.

Mărgăoan R, Topal E, Balkanska R, Yücel B, Oravec T, **Cornea-Cipcigan M**, Vodnar DC. Monofloral honeys as a potential source of natural antioxidants, minerals and medicine, The 20<sup>th</sup> International Conference "LIFE SCIENCES FOR SUSTAINABLE DEVELOPMENT", Book of abstracts, 23<sup>rd</sup>– 24<sup>th</sup> September, 2021, Cluj-Napoca, Romania, ORAL PRES.

Mărgăoan R, **Cornea-Cipcigan M**, Topal E, Kösoğlu M, Relationship Between The Volatile Profile And Yeast Strains Used In The Fermentation Process And Health Benefits Of Bee Bread, Mead And Honey Vinegar, The 19<sup>th</sup> International Conference "LIFE SCIENCES FOR SUSTAINABLE DEVELOPMENT", Book of abstracts, 24<sup>th</sup>- 25<sup>th</sup> September, 2020, Cluj-Napoca, Romania POSTER

Mărgăoan R., Arădăvoaicei S, **Cornea-Cipcigan M**, Sisea CR, Review: Methods Used In Palynology, The 18<sup>th</sup> International Conference "LIFE SCIENCES FOR SUSTAINABLE DEVELOPMENT", Book of abstracts, 26<sup>th</sup>- 28<sup>th</sup> September, 2019, Cluj-Napoca, Romania; POSTER

Mărgăoan R, Arădăvoaicei S, **Cornea-Cipcigan M**, Sisea CR, 2019, The Role of Pollinators In Maintaining The Biodiversity of Some Exotic Cultures, ICERAT, Sarajevo, Bosnia si Herzegovina; ORAL PRES

Mărgăoan R, **Cornea-Cipcigan M**, Campos MG, 2019, Proposal for terminology of plants with pollen shape similarity-review, The 5<sup>th</sup> International Symposium on Bee Products, Malta 7<sup>th</sup>-10<sup>th</sup> May - International Honey Commision; ORAL PRES.

Aurori A, Mărgăoan R, Căpraru AC, Pop A, **Cornea-Cipcigan M**, Arădăvoaicei S, Pop R, Dezmirean D, Sisea CR, DNA extraction from pollen in honey for molecular analysis The 18<sup>th</sup> International Conference "LIFE SCIENCES FOR SUSTAINABLE DEVELOPMENT", Book of abstracts, 26<sup>th</sup>- 28<sup>th</sup> September, 2019 Cluj-Napoca, Romania. POSTER

## **SOFT SKILLS**

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**Good communication skills acquired through participation in workshops, symposiums, conferences, projects and as a volunteer**

**Good organizational skills acquired during the practical and research activities carried out within the faculty where I learned skills such as meticulousness, perseverance in performing tasks, adaptability.**

## **HIRSCH INDEX**

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**Cumulated Impact Factor: 20.313**

**HI (WOS): 6, Scopus: 7, Google Scholar: 9; Citations: 137 (WoS), 295 (Google Scholar).**

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15/05/2023