MEMORIU ŞTIINŢIFIC

Drd. Justinian-Andrei TOMESCU

Studii de doctorat

Perioada: 01.10.2020 – 30.09.2025

Conducător ştiinţific: Prof. Dr. Ing. Ioan Călinescu

Domeniu: Inginerie Chimică

Titlul tezei de doctorat: „Obţinerea si caracterizarea unor produse noi obtinute din ciuperci medicinale sau din rezidii de tip hidrosoluri."

Activitate ştiinţifică

A. Lista de lucrări ştiinţifice (articole în reviste sau volume)

2. A. Gaspar-Pintiliescu, E. Mihai, T. Ciucan, A. F. Popescu, C. Luntraru, **J. Tomescu**, O. Craciunescu , *Antioxidant and acetylcholinesterase inhibition capacity of hyrosols from lamiaceae plants for biopesticide use: role of phenolics*, INTERNATIONAL JOURNAL OF FOOD PROPERTIES, *25*(1), 981–993. **2022**, (**IF – 1.8, Q2**) – ISSN: 1094-2912, WOS: 000796075500001
3. A. Gaspar-Pintiliescu, A.-M. Perlipceanu, E. Mihai, T. Coican, R. E. Anton, A. F. Popescu, **J. A. Tomescu,** O. Craciunescu, , *Free radicals scavenging, acetylhydrolase inhibition and antimicrobial activity of aromatic plant hydrolate mixtures*, Journal of Food Measurement and Characterization, 16, 3589–3596. **2022** (**IF – 3.95, Q2**) – ISSN: 1934-7081, WOS: 000795297800001
4. D. Gheorghita, A. Robu, A. Antoniac, I. Antoniac , L. M. Ditu , A.-D. Raiciu**, J. Tomescu,** E. Grosu and A. Saceleanu , *In Vitro Antibacterial Activity of Some Plant Essential Oils against Four Different Microbial Strains*, Applied Sciences.; 22(10):434. **2022**, (**IF – 2.8, Q2**) – ISSN: 2076-3417, WOS: 000862108400001
5. C.M. Luntraru, L. Apostol, O.B. Oprea, M. Neagu, A.F. Popescu, **J.A. Tomescu**, M. Multescu, I.E. Susman, L. Gaceu, *Reclaim and Valorization of Sea Buckthorn (Hippophae rhamnoides) By-Product: Antioxidant Activity and Chemical Characterizati*, FOODS, 11(3), 462. **2022**, (**IF – 5.5, Q1**) – ISSN: 2304-8158, WOS: 000756896300001
6. G. Petrisor, L. Motelica, R. D. Trusca, A.-L. Mîrt, G. Vasilievici, **J.-A. Tomescu**, C. Manea, A. S. Dumbrava, V. M. Corbu, I. Gheorghe-Barbu , D. Ficai, O.-C. Oprea, B.-S.Vasile, A. Ficai and A. D. Raiciu, 2024, *The Antimicrobial Potency of Mesoporous Silica Nanoparticles Loaded with Melissa officinalis Extract,* Pharmaceutics, **2024**, 16, 525. (**IF – 4.9, Q1**) – ISSN: 1999-4923, WOS: 001201159100001
7. V. Staicu, J. A. Tomescu, I. Calinescu, 2021, *Bioavailability of ursolic/oleanolic acid, with therapeutic potential in chronic diseases and cancer*, Adv Clin Exp Med. **2024** Nov;33(11):1173-1178, (**IF – 2,1, Q2**) – ISSN: 1899-5276, WOS: 001073854600001
8. M. Neagu, C. Luntraru, A, Bîra, **Tomescu J**., N. Ionescu, Stan R., 2021, *Bioactive phenolic compounds from white willow (salix alba) bark, leaves and branches*, University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science , 83(3), 41-50, (**IF –, Q4**) – ISSN: 1454-2331, WOS: 000692192600004
9. B. Dangnon, D. Dah-Nouvlessounon, S. M. Ismaël Hoteyi, H. Sina, **J. A. Tomescu**, K. J.-M. Akpo, M. M. Sangare-Oumar, A. Adjanohoun, O. O. Babalola, E.Vamanu , "*Gastroprotective, Antioxidant, Anti-Inflammatory, And Toxicological Evaluation Of Stem Bark Extracts Of Vitellaria paradoxa And Parkia biglobosa*, Pharmaceuticals, **2025,** 18, 1184. https://doi.org/10.3390/ph18081184

10. **J. A. Tomescu**, V. Staicu, C. Luntraru, I. Calinescu*, "Comparative nutritional and fatty acid profiling of commercially cultivated and wild-harvested pleurotus ostreatus and armillaria mellea mushrooms", acceptat la publicare, U.P.B. Sci. Bull., Series B, **2025**

11. E. Mihai, A. Gaspar-Pintiliescu, T. Ciucan, A.-M. Prelipcean, J. Tomescu, M. Neagu, O. Craciunescu, 2023, *Comparative study on the composition, antioxidant and antimicrobial activity of fennel hydrolates*, Scientific Bulletin. Series F. Biotechnologies, Vol. XXVII, No. 1, (**IF –, Q**) – ISSN: 2285-1364

12. V. Staicu, C. G. Chisega Negrila, J. A. Tomescu, M. Neagu, I. Calinescu, **2023**, *Separation and Purification of Plant Extracts by Removal of Chlorophyll, Xanthophylls and Pigments using Mineral Adsorbents in Liquid Chromatography (CLS)*, Current Trends in Engineering Science (CTES), 3(6),– ISSN: 2833-356X

13. V. Staicu, J. A. Tomescu, I. Calinescu, **2023**, *Environmental Protection and Superior Recovery of Vegetal Waste and Biomass, Major objectives in the Applied Research Activity*, Journal of biomedical research & environmental sciences,– ISSN: 2766-2276,

14. M. Andrei, A. Stefaniu, N. Ene, L. Pintilie, N. Radu, **A. J. Tomescu**, A. D. Raiciu, **2024**, *Multiple natural approaches of Salix alba*, Archives of Microbiology & Immunology, (8), 410-427

A. Participări la conferințe/workshop-uri

1. Conferință **NUTRICON**, Ohrid, Macedonia de Nord - Mihaela Neagu, Cristina-Mihaela Luntraru, Adriana Florina Popescu, **Justinian-Andrei Tomescu**, Livia Apostol, *Evaluation of the antioxidant capacity of sea-buckthorn (hippophae rhamnoides) berries by-product extracts for further valorization.*

2. Conferință **SICHEM 2022**, București, România - **Justinian-Andrei Tomescu**, Livia Apostol, Theodor Trausan-Matu, Georgeta-Alexandru, Alexandru Suciu, Simona Craparescu, Mihaela Neagu, *Characterization of Valuable Nutraceutical Compounds from Sea Buckthorn and Blueberry Waste Extracts Destined for Functional Supplements Enrichment*

3. Conferință **SICHEM 2022**, București, România - Vasile Staicu, **Tomescu Justinian-Andrei**, Theodor Trausan, and Calinescu Ioan, *Extraction, separation and dosage of ursolic acid from Rosmarinus officinalis using ultrasound.*

4. Conferință **SICHEM 2022**, București, România - **Justinian-Andrei Tomescu**, Vasile Staicu, Theodor Trausan-Matu[1], Ioan Calinescu, and Christina-Marie Zalaru, *Time, temperature and solvent influence on polysaccharides content of p. Ostreatus extracts*

5. Conferință **RICCCE 22**, București, România - Anca Daniela Raiciu**, Andrei Justinian Tomescu,** Cristina Manea, *Comparative Study on the Physico-chemical Characterization and Medical Properties of Volatile Oils of Cinnamon Bark & Cinnamon Leaf*

6. Conferință **ULTRASONICS 2023**, Lisabona, Portugalia - **Justinian-Andrei Tomescu_,** Vasile Staicu, Simona Spînu, Alina Ortan, Daniela Ionescu, Theodor Trausan-Matu, Ioan Calinescu, 2023, *Practical applications and guidelines in the process of obtaining extracts rich in ursolic and oleanolic*

acid from Rosmarinus officinalis and Rosmarinus officinalis residue after the extraction of volatile oils using ultrasound and microwave assisted extractions

7. Conferință **XI INTERNATIONAL SIMPOSIUM FOOD TECHNOLOGY 2023**, Murcia, Spania - Livia Apostol, Mihaela Neagu, Cristina Manea, **Justinian Andrei Tomescu**, Mihai Bogdan Nicolcioiu, Nastasia Belc, *Recovering nutritional value from berries by-products*

B. Proiecte de cercetare științifică

1. PN-III-P3-3.5-EUK-2019-0193 - Nutritional ingredients from fruits reusable wastes recovered as supplements, functional foods and beverages, NUTRIFRUKT
2. PN-III-P3-3.5-EUK-2017-02-0084 - Development of novel textile materials with micro-encapsulated bio-active compounds. NOVAHEAL
3. PN-III-P3-3.5-EUK-2019-0226 - Transdisciplinary approach for development of technological solutions for target compounds recovery from agro side-streams, TARDIS
4. PN-III-P2-2.1-PED-2019-3561 - Novel biotehnologies of plant by-products complex valorisation for prevention and control of pathogens in agro-ecosystems, HYDROPEST
5. PN-IV-P7-7.1-PED-2024-2238 - Integration of valuable autochthone herbals for novel lipid nanostructured cream used in varicose vein therapy
6. PN-IV-P7-7.1-PED-2024-2055 - Molecularly imprinted-solid phase extraction technology for catechin tannins from shrub wooden parts
7. PN-IV-P7-7.1-PED-2024-0703 - Liposomal nanosystems with microbial inulinase for the prevention of metabolic and nutritional diseases

Student-doctorand

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