

CURRICULUM VITAE

1. **Surname:** VASILESCU - PANEA
2. **First name(s):** GELU
3. **Date and place of birth:** 17.05.1954, Bucharest

4. Education

Institution	I.P.G.G Bucharest, University of Gas and Oil Ploiesti Faculty of Petrochemistry
The period:	1973 - 1978
Title of qualification awarded	Engineer

5. Work experience:

The period:	1978 –1980	1980 –1981	1982 – since present
Institution	C.D.P.P. PECO Bucharest	I.C.E.PETROLEXPORT IMPORT Bucharest	INCDCP-ICECHIM Bucharest
Position held	Technological Engineer	Technological Engineer	Engineer 1981 - 1986 Senior Researcher 1986 - 1988 Senior Researcher III 1988-1995 Senior Researcher II 1995 - present
Main activities	Technological Engineer specialized in the storage and marketing of petroleum products.	Engineer performing internal and external contracts with crude oil and petroleum products	Obtainment and characterization of enzymes Applied microbiology Environmental biotechnology (biodegradation of organic pollutants; biodegradation of polymeric wastes). Competence in bioreactors, biofermentation proceses, active principle extraction and financial analyzes.

6. **Present workplace and position held:** INCDCP - ICECHIM – Bucharest, **Scientific Researcher 2nd degree;**

7. Registered Trademarks

- as PLANTAGIN, DERMATOCALENGIN, BRASSICOL (OSIM registered) since 1992

8. **Scientific communications/published papers in journals (ISI and BDI) and proceedings' books:** *see Annexes*

9. **Foreign Languages:** English, German

10. **Computer skills and competences:** MS Office, Origin, etc

11. **Specializations and qualifications:**

- The European Nomenclature of Toxic Substances and Drug Precursors – 2010 ;
- Eco-economy and Sustainable Development – program POSDRU 2007 -2013, din 2013

12. Contributions in research projects (2010 – since present)

National projects		
Project	Position	Period
Obtaining pharmaceutical products with dermo-therapeutic action using plants from the Cruciferae family	Project Director	2001 -2003
Biocontrol methodology development of microbial systems against fungal contamination – Project PNCDI II nr. 61-045/2007	Member	2007-2010
Fast methods for toxins monitoring during food processing technologies for safety improvement (<i>SAFE FOOD</i>) Project PNCDI II 61-030/2007	Member	2007-2010
<i>Trichoderma</i> fungal activator for odorant suppressive composts used on ornamental crops (84 CI/ 2012)	Member	2012
Eco-efficiency solutions for plastics waste management using degradative potential of biological systems - Project PNCDI II 32-115/2008	Member	2009-2011
Development of innovative biotechnology by obtaining the nanomaterial from <i>Monsacus</i> sp. with potential application in therapy Project PNCDI II 62-070/2008	Member	2008-2011
Bioproducts for removal of potential carcinogens and carcinogenic compounds in soils contaminated with petroleum products (100 CI/2012)	Member	2012
Complex fertilizers with endo-mycorrhizal spores and symbiotic mycorrhizal enhancers (121 CI/2012)	Member	2012-2013
Multifunctional and innovative products for safe and bioenhanced functional food from newly cultivated plants in Romania (MAIA)PN-II-PT-PCCA-2013-4-0995/ 160/2014	Member	2014-2017
Innovative solutions to increase energetic efficiency of buildings and industrial equipments using biodegradable thermal insulating materials (Biotherm) PN-II-PT-PCCA-2013-4- /085/2014	Member	2014-2017
Biotechnological valorisation of industrial animal wastes using biodegradative properties of keratinolytic fungal isolates (PN 16.31.01.03)	Member	2016-2017
PN 18.22.01.01 Biosynthesis of selenium nano particles with amplified bioactivity	Member	2018
PN 19.23.01.01 Advanced chemistry for innovative and emergent technologies.	Member	2018-2021
Sequential processes for closing the lateral flows in the bioeconomy and (bio) innovative products resulting from them (POC- SECVENT)	Member	2016-2020
PN.19.23.03.02 Design of sensors and biosensors to determine the toxic compounds from foods and environment	Member	2018-2021

International projects		
Project	Position	Period
Improved curricula and modern learning system to promote the new directions of business enhancement in life sciences applications” Proiect Pilot Leonardo da Vinci	Member	2013-2015
Manufacturing of new online analytical systems for toxin hazard assessment in dairy industry MANUNET 33/2017	Member	2017-2019

13. Member of professional associations - member of Romanian Society of Bioengineering and Biotechnology – affiliated to European Federation of Biotechnology;

Annex 1

Publications (selection)

- M. Constantin, I. Raut, G. Vasilescu, M. L. Arsene, L. Jecu, 2012. Colonization and degradation of polyethylene composites by fungal strains isolated, Scientific Bulletin Series F. Biotechnologies, volume XVI, 109-112.
- I. Raut, M. Constantin, G. Vasilescu, L. Jecu, T. Sesan, 2012, Screening of antagonistic *Trichoderma* for biocontrol activities on phytopathogens. Scientific Bulletin Series F. Biotechnologies, volume XVI, 63-66.
- I. Raut, M. Constantin, G. Vasilescu, M.-L. Arsene, L. Jecu, T. Sesan, 2013, Optimization of *Trichoderma* strain cultivation for biocontrol activity. Scientific Bulletin Series F. Biotechnologies, volume XVII, 154-159.
- I. Raut, M. Badea-Doni, M. Calin, F. Oancea, G. Vasilescu, T. E. Sesan, L. Jecu, 2014, Effect of Volatile and Non-Volatile Metabolites from *Trichoderma spp.* against Important Phytopathogens, Rev. Chim. (Bucharest), 65(11), 1285-1288.
- L. Jecu, E. Grosu, I. Raut, V. Purcar, Z. Vuluga, M. Iorga, G. Vasilescu, M. Rapa, M. Badea-Doni, M. L. Arsene, **2015**, Susceptibility of thermoplastic based composites to degradation by microorganisms, Environ. Eng. Manag. J., 14, 2545-2554
- M. Calin, I. Raut, M. Doni, E. Alexandrescu, G. Macovescu, M. L. Arsene, AM. Gurban, G. Vasilescu, L. Jecu*, **2019**, The potential of keratinolytic fungi for biotechnological applications in leather manufacture, Rev. Chim. (Bucharest), 70, 3152–3157.

Annex 2

Books and book' chapters

- ❖ V. Ciobanu, E. Marica, S. Nicolescu, G. Vasilescu, "Seabuckhorn - –A Little Known Bush", ISBN 923-0-3095-4, Editura Chiminform, 2003, Bucharest
- ❖ *Trichoderma spp. – Applications in Agriculture and Horticulture*, 2016, Publishing University of, coordinator Prof. Dr. TE Sesan, ISBN 978-606-16-0900-0.
- ❖ *Chapter 5. Volatile and non-volatile metabolites of Trichoderma with biocontrol implications*, Răut I., Șesan T.E., Arsene M.L.*, Badea-Doni M., Jecu L., Călin M., Vasilescu G., Oancea F.;

Annex 3

Participations at international conferences (Selection)

- I. Raut, M. Calin, M. Badea-Doni, F. Oancea, G. Vasilescu, L. Jecu*, Inhibition of mycotoxins production by extracellular microbial metabolites, *Joint IUBMB/ICGEB Symposium on Modern Biotechnological Advances for Human Health – BAHH*, May 20-22, **2014**, Bucharest, Romania.
- L. Jecu, E. Grosu, I. Raut, V. Purcar, Z. Vuluga, M. Iorga, Gelu Vasilescu, M. Rapa, M. Badea-Doni, M. L. Arsene, Susceptibility of thermoplastic based composites to degradation by microorganisms, International Conference ELSESEDIMA 10th edition, Cluj, 18th – 19th September **2014**, Book of abstract, pg 83
- L. Jecu, E. Grosu, I. Raut, F. Oancea, M. Calin, G. Vasilescu, M. Rapa, M. Badea-Doni, M. L. Arsene, The durability of poly(vinyl chloride) - wood composites exposed to fungal degradation, 11th International Conference ELSESEDIMA, 26-28 May **2016**, Cluj-Napoca, Romania, Book of abstracts, pg. 97.
- M. Calin, M. Badea-Doni, I. Raut, G. Vasilescu, D. Aruxandei Constantinescu, M. L. Arsene, E. Alexandrescu, L. Jecu*, V. Lazar, Investigation of microbial degradation of keratin substrates with optical and electron microscopy, 16th International Conference ROMPHYSICHEM–16, Galati, 21-23 Sept **2016**.

- I Raut, M Badea-Doni, M Calin, Z. Vuluga, G. Vasilescu, A M Musuc, V Purcar, M L. Arsene, E Alecsandrescu, L Jecu*, The effect of soil burial degradation on cellulose fiber-filled polypropylene composites, 16th International Conference of Physical Chemistry, ROMPHYSICHEM–16, Galati, 21-23 Sept **2016**
- V. Fruth, J. Pandele-Cusu, I. Atkinson, L. Predoana, A. Rusu, I. Raut, M. Doni, L. Jecu, M.L. Arsene, G. Vasilescu, A. Badanoiu, Use of bacteria to repair cracks in cementous materials, 16th International Conference of Physical Chemistry, ROMPHYSICHEM–16, Galati, 21-23 Sept **2016**.
- Raut, M. Calin, L. Jecu*, M.L. Arsene, D. Constantinescu, G. Vasilescu, A.-M. Gurban, M. Doni, Screening of fungi strains producing toxins and inhibition studies of fungal growth, 3rd International Conference New Trends on Sensing- Monitoring- Telediagnosis for Life Science, 7-9 Sept **2017**, Bucharest.
- M Călin, I Răut, D Constantinescu, F Oancea, M Badea Doni, ML Arsene G Vasilescu, L Jecu*, AM Gurban, ON Corneli, V Lazăr, Useful application of fungi producing simultaneously keratinase and chitinase in plant growth and protection, International Conference of the University of Agronomic Science and Veterinary Medicine of Bucharest « Agriculture for Life, Life for Agriculture', June 7-9, 2018, Bucharest, Romania; Book of abstracts Section 6: Biotechnology, pg 85.
- M Călin, D Constantinescu-Aruxandei, I Răut, F Oancea, L Jecu, G Vasilescu, AM Gurban, M Badea Doni, ML Arsene, V Lazar, Screening of filamentous fungi for biosynthesis of selenium nanoparticles with potential applications in agriculture, International Conference of the University of Agronomic Science and Veterinary Medicine of Bucharest « Agriculture for Life, Life for Agriculture', June 7-9, 2018, Bucharest, Romania; Book of abstracts Section 6: Biotechnology, pg 39.
- M Călin, I Răut, D Constantinescu-Aruxandei, ML. Arsene, G Vasilescu, AM Gurban, M Doni, L. Jecu*, Plant growth promoting properties of fungal strains cultured on keratin waste substrates, International Conference New Trends on Sensing- Monitoring- Telediagnosis for Life Science, 30 August -1 September **2018**, Brasov.
- ML Arsene, AM Gurban, L Jecu, G Vasilescu, M Doni, Enzymatic activity in a crowded volume-restricted environment, The 12th International Symposium of the Romanian Catalysis Society RomCat2019, June 5-7 **2019**, Bucharest
- Raut, M. Calin, Z. Vuluga, E. Alexandrescu, M.L. Arsene, G. Vasilescu, A. M. Gurban, M. Doni, L Jecu*, Overview on microbial degradation of polyolefins-based composites, 11th International Conference BraMat 2019, 13-16 March **2019**, Brasov.
- I Răut, M Călin, E Alexandrescu, F Oancea, ML Arsene, G Vasilescu, AM Gurban, M Doni, L Jecu*, Protein hydrolysates from wool waste as plant biostimulants by using fungal isolates, 9th International Conference of the Chemical Societies of the South-East European Countries, ICOSECS, May 8-11 **2019**, Targoviste, Romania.
- M Călin, I Răut, F Oancea, L Capra, D Constantinescu-Aruxandei, MI Arsene, AM Gurban, M Doni, G Vasilescu, L Jecu*, Exploitation of feather wastes as plant growth promoting agents, International Conference of the University of Agronomic Science and Veterinary Medicine of Bucharest « Agriculture for Life, Life for Agriculture', June 6-9, 2019, Bucharest, Romania;

Eng. Gelu Vasilescu - Panea

August 2020