

**Ph.D.Eng. Lecturer SERGIU ERICH PALCU**  
**Department : Natural Sciences and Technology**  
**Faculty of Food Engineering, Tourism and Environmental Protection**  
**"Aurel Vlaicu" Arad University**

## **LIST OF WORKS**

### **1. Thesis**

„Research on the technology for extracting the water-soluble vitamins of the B complex using as raw materials some horticultural and agricultural crops”, University of Agriculture and Veterinary Medicine, Bucharest, 2008, coordinator Prof.Univ.Dr. Gheorghe Câmpeanu

### **2. Books and book chapters:**

#### **Books and books, chapters in books**

**C1.** T m dan t. T., **Palcu S. E.** – **Biochemistry**, vol.I, University Press „Aurel Vlaicu” Arad, **2001**, 152 pag., ISBN 973-9361-51-X

**C2.** St nescu Michaela Dina, **Palcu S.E.**, Gavrilă Simona – **Analytical biochemistry – Applications and problems**, University Press „Aurel Vlaicu” Arad, **2010**, 128 pag., ISBN 978-973-752-498-0

**C3.** **Palcu S.**, **2011** – **Toxicology – Fundamentals and applications**, University Press „Aurel Vlaicu” Arad, **2011**, 171 pag., ISBN 978-973-752-552-9

**C4.** Mure an Claudia, **Palcu S.**, Dicu Anca – **Cooking techniques – Fundamentals and applications**, University Press „Aurel Vlaicu” Arad, **2011**, 180 pag., ISBN 978-973-752-551-2

**C5.** St nescu Michaela Dina, **Palcu S.E.**, Gavrilă Simona – **Analytical biochemistry – Applications and problems**, Edi ie ad ugit i revizuit , University Press „Aurel Vlaicu” Arad, **2012**, 140 pag., ISBN 978-973-752-638-0

### **3. Articles published in mainstream journals with international recognition – ISI**

**A1.** **SERGIU ERICH PALCU**, **CLAUDIA MURE AN**, **CIPRIAN NICOLAE POPA**, **RADIANA-MARIA TAMBA-BEREHOIU**, **2019** - VARIABILITY ASSESSMENT OF GARDEN PEA (*PISUM SATIVUM*) PRODUCTION PERFORMANCES BY USING 2-WAY ANOVA ANALYSIS, *ROM BIOTECHNOL LETT.* 2019; 24(5): 913-921. DOI: 10.25083/RBL/24.5/913.921, ISSN PRINT : 1224-5984, I.F. 0,590

### **4. Articles published in the mainstream of international recognition - indexed database**

**D1.** Vincu Mirela, Clep Camelia, Ahmadi T., Popescu Georgeta Sofia, **Palcu S.E.**, Chilom Marinela, Velcirov P., **2000** – Experimental studies on the metabolic effects induced by zinc and manganese in laboratory animals, Metal elements in Environment, Medicine and Biology, 4<sup>th</sup> International Symposium, November 6-8, Timi oara

**D2.** Daranyi Gabriela, Gârban Z., Mart u Ariana-Bianca, Antal Diana-Simona, **Palcu S.**, Simionc E., **2002** - Harmful effects of polycyclic aromatic hydrocarbons resulted from the structure–activity relationship, p.15, in “4<sup>th</sup> Regional Conference on Environmental and Health”, Szeged, May 9-10

**D3.** **Palcu S.**, Gh.Câmpeanu, **2006** – The influence of chemical fertilisers with microelement on B<sub>1</sub> and B<sub>6</sub> vitamins content on garden pea.II.Partial results, Bulletin of University of Agriculture and Veterinary Medicine, Cluj-Napoca, Al 5-Lea Simpozion Interna ional “Perspective ale agriculturii mileniului III” vol.62/, pag. 128-131, ISSN 1454-2382

**D4.** Mure an Claudia, Ciutina V., Anca Dicu, **S. Palcu, 2007** – Cromatic index evolution during superiors red wines maturation at Burgund variety; Bulletin of University of Agricultural Sciences and Veterinary Medicine, Cluj Napoca, vol.63-64, pg.662-663; ISSN 1843-5246

**D5. Palcu S.,** Gh. Câmpeanu, L. H Im gean, Claudia Mure an, **2007** - Researches regarding soil fertilization for Leguminosae cultures an their influence upon production parameters, Bulletin of University of Agricultural Sciences and Veterinary Medicine, Cluj Napoca, vol.64 (1-2), pg.108-112; ISSN 1843-5254

**D6. Palcu S.E.,** Claudia Mure an, **2007** - Biochemical parameters improvement at *Pisum sativum* under the influence of chemical fertilizers with microelements, Bulletin of University of Agricultural Sciences and Veterinary Medicine, Cluj Napoca, vol.64 (1-2), pg.751; ISSN 1843-5254

**D7.** Mure an Claudia, V.Ciutina, **S.Palcu,** L.H Im gean, **2008** – Comparative analysis of physicochemical characteristics for red superior wines obtained in the western part of Romania, Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, pg. 475, Editura Academic Pres, volume 65(2), ISSN 1843-5246

**D8. Palcu S.E.,** Zamfir Alina, Mure an Claudia, **2008** - Researches concerning extraction and dosage technology of hydrosoluble B complex vitamins by using some garden and agricultural crop plants as raw material, Annales of the University of Craiova, vol. XIII (XLIX), pg. 283-286, Editura Universitaria, ISSN 1435 – 1275

**D9. Sergiu Erich Palcu,** Claudia Mure an, Radiana-Maria Tamba-Berehoiu, Ciprian Nicolae Popa, STATISTICAL EVALUATION OF ENVIRONMENTAL FACTORS AND SOIL FERTILIZERS EFFECTS ON GARDEN PEA (*Pisum sativum*) PRODUCTION PARAMETERS, Scientific Papers Series Management , Economic Engineering in Agriculture and Rural Development, Vol.18, Issue 1, **2018**, Pages 311-318, PRINT ISSN 2284-7995, E-ISSN 2285-3952. [http://managementjournal.usamv.ro/pdf/vol.18\\_1/volume\\_18\\_1\\_2018.pdf](http://managementjournal.usamv.ro/pdf/vol.18_1/volume_18_1_2018.pdf)

**D10.** Ciprian Nicolae POPA, Radiana Maria TAMBA BEREHOIU , Lumini a VI AN, Vasilica SIMION, Claudia MURE AN, **Sergiu Erich PALCU** - ROMANIAN CONSACRATED RECIPES IN THE MILLING AND BAKERY INDUSTRY, Scientific Papers Series Management , Economic Engineering in Agriculture and Rural Development, Vol.20, Issue 1, **2020**, Pages 417-424, PRINT ISSN 2284-7995, E-ISSN 2285-3952.<http://managementjournal.usamv.ro/index.php/scientific-papers/84-vol-19-issue-4/2151-romanian-consacrated-recipes-in-the-milling-and-bakery-industry>

##### **5. Articles published in proceedings of international scientific meetings**

**Vi1.** Popescu I., **Palcu S.,** Radu Dana, Condrat D. – The effect of peppermint oil in the manufacture lactoacide, Proceedings of the Sixth International Symposium, România-Serbia&Muntenegro-Ungaria, Timi oara, **2004**, pag. 684-689, ISBN 973-8359-26-0

**Vi2. Palcu S.,** Zdrem an Monica – Chemical food contaminants-Aromatic polycyclic hydrocarbons – Natural Resources and Sustainable Agriculture, International Scientific Session Oradea-Debrecen, Part 2, **2005**, University of Oradea Publishing House, ISBN 963-9274-887

**Vi3. Palcu S.,** Campeanu Gh., Halmagean L., Crisan Simona – The influence of chemical fertilizers with microelements over the morpho-physiological and production characteristics for vegetables, 41<sup>st</sup>Croatian International Symposium on Agriculture, Zagreb, **2006**, pag. 133-134, ISBN 953-6331-39-X

**Vi4.** Mure an Claudia, Ciutina V., H Im gean L., **Palcu S.,** Chi S., **2007** – The physicochemical characteristics of red wines from Burgund variety obtained with external enzymatic mixtures during wine making process; International Scientific Symposium "Achievements and Prospects in horticulture, viticulture, wine and forestry ” Chi in u, Rep. Moldova, Scientific Papers, vol. 15 (2), pg. 196-198, ISBN 978-9975-946-11-7

**Vi5.** Ciutina V., Mure an Claudia, **Palcu S., 2007** – Results on clonal selection, some varieties of vines cultivated in Western Romania; International Scientific Symposium, „Achievements and Prospects in horticulture, viticulture, wine and forestry” Chi in u, Rep. Moldova, Scientific Papers vol. 15 (2), pg. 43-46, ISBN 978-9975-946-11-7

**Vi6. Palcu S.,** Câmpeanu Gh., Chi S. **2007** – The action of some chemical fertilizers with microelements by Fericare I and Universol type and their action on Thiamine, Riboflavin and Pyridoxine content at *Pisum sativum*, International Scientific Symposium "Achievements and Prospects in horticulture, viticulture, wine and forestry" Chi in u, Rep. Moldova, Scientific Papers vol. 15 (2), pg. 376-379, ISBN 978-9975-946-11-7

**Vi7. Palcu S. 2007** – The effect of physical factor on morpho-physiological and production indicators at *Pisum sativum* in Arad Agroecological area, International Scientific Symposium "Achievements and Prospects in horticulture, viticulture, wine and forestry", Chi in u, Rep. Moldova, Scientific Papers vol. 15 (2), pg. 379-383, ISBN 978-9975-946-11-7

**Vi8. Palcu S.,** Claudia Mure an, – Research into the toxicity of the some wild growing plants from Arad county, 42<sup>st</sup> Croatian International Symposium on Agriculture, Zagreb, February 13-16, **2007**, Book of abstracts, pag. 96, ISBN 978-953-6135-56-1

**Vi9.** Claudia Mure an, V. Ciutina, **S. Palcu** , S. Chi , Elisabeta Ivan, **2007** – The influence of external enzymatic mixtures on the physicochemical characteristics of red wines from Burgund variety in Minis vineyard; International Conference „Research people and actual tasks on multidisciplinary sciences”, Lozenec, Bulgaria, vol.3, pg. 287-290, ISBN 978-954-91147-3-7

**Vi10. S.E.Palcu, 2007** – The influence of chemical fertilizers with microelement on B<sub>1</sub>, B<sub>2</sub> and B<sub>6</sub> vitamins content on garden pea.III.Partial results, International Conference „Research people and actual tasks on multidisciplinary sciences”, Lozenec, Bulgaria, vol.1, pg. 243-246, ISBN 978-954-91147-3-7

**Vi11. S. Palcu,** Gh. Câmpeanu, Claudia Mure an, S. Chi , V. Ciutina, **2008** – Fertilisation and Seed Bacterisation of *Pisum Sativum*, 43<sup>st</sup> Croatian International Symposium on Agriculture, Opatija, Croatia, February 18-21, pag. 461-464, ISBN 978-953-6135-67-7

**Vi12. Palcu S.E., 2008** – The action of some chemical fertilizers with microelements by Universol and fericare I type and their action on thiamine, riboflavin and pyridoxine content at *Pisum sativum*, International Symposium Research and Education in Innovation Era, pg. 134-139, „Aurel Vlaicu” University of Arad, Scientific and Technical Bulletin, Year XIV, Vol.13, ISSN 1582-1021

**Vi13.** Mure an Claudia, Ciutina V., **Palcu S., 2010** - The evolution of colour intensity at superiors red wines obtained in Minis vineyard, Simpozionul tiin ific Interna ional „Horticultura modern – realiz ri i perspective”, Chi in u, Rep. Moldova, 23-25 Septembrie 2010

**Vi14. Palcu S.E.,** Chi S., Mure an Claudia, **2010** - Studies and experimental research on some plants of the Fabaceae family of B vitamins content under the action of synthetic fertilizers, , International Symposium Research and Education in Innovation Era, „Aurel Vlaicu” University of Arad, Scientific and Technical Bulletin, Year XIV, Vol.14, ISSN 1582-1021

**Vi15. Palcu S.,** Mure an Claudia, Balint Maria, **2012** - Obtained results for *Pisum sativum* culture fertilisation in order to improve some morpho-physiological and production parameters in Arad vegetable area, International Symposium Research and Education in Innovation Era 4<sup>th</sup> Edition, „Aurel Vlaicu” University of Arad, Scientific and Technical Bulletin

**Vi16.** Mure an Claudia, **Palcu S.,** Ciutina V., Dobromir Daniela, Dicu Anca, **2012** - The evolution of wine quality during technological process at superiors wines from Mini vineyard, International Symposium Research and Education in Innovation Era 4<sup>th</sup> Edition, „Aurel Vlaicu” University of Arad, Scientific and Technical Bulletin

**Vi17. Palcu S.E.,** Mure an Claudia, **2016** - Experimental research on the content of thiamine, riboflavin and pyridoxine of the *family Papilionaceae* plants under the influence of

fertilizer with microelements, International Symposium Research and Education in Innovation Era 6<sup>th</sup> Edition, „Aurel Vlaicu” University of Arad, Scientific and Technical Bulletin

**Vi.18.** Ramona LILE, Lucian COPOLOVICI, Claudia MURE AN, **Sergiu PALCU**, Monica LUNGU, Andreea LUPITU, Cristian MOISA, Dana Copolovici, **2019** - New method for brandy distillation from different fruits, International Conference "Agriculture for Life, Life for Agriculture, Bucharest, Section 6 : Biotechnology, ISSN 2343-9653(PRINT) - Poster

**Vi.19.** Ramona LILE, Claudia MURE AN, **Sergiu PALCU**, Claudiu URSACHI, Florentina MUNTEANU, Dana COPOLOVICI, Monica LUNGU, Andreea LUPITU, Cristian MOISA, Lucian COPOLOVICI, **2020** - NEW TRADITIONAL MEAT PRODUCTS WITH ADDED VALUE, International Conference "Agriculture for Life, Life for Agriculture, Bucharest, June 4-6, 2020, ISSN 2343-9653(PRINT) - Poster

**Vi.20.** Maria CHIFOR, Andreea LUPITU, Cristian MOISA, Dana COPOLOVICI, Lucian COPOLOVICI, **Sergiu PALCU**, Claudia MURESAN, **2020** - IMPROVING THE SENSORY AND CHEMICAL CHARACTERISTICS OF FRUIT SPIRITS BY MACERATING DEHYDRATED FRUITS, 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

## **6. Papers published in other journals recognized**

### **Category B CNCSIS**

**L1.** Mure an Claudia, Ciutina V., Chi S., **Palcu S.** – The influence of the climatic conditions over the evolution of phenolic compounds from the great Burgund grape variety from the vineyards from eastern and western side of Romania, University of Agricultural Sciences and Veterinary Medicine of Banat, **2006** - X Series Scientific research Publishing Agroprint Timisoara, pag. 51-56, ISSN 1453-1402

**L2.** **Palcu S.**, Câmpeanu Gh., Chi S., Mure an Claudia – The effects of the physical factors on the morphophysiological and production indicators for Pisum Sativum in Arad agroecological area, University of Agricultural Sciences and Veterinary Medicine of Banat, **2006** - X Series Scientific research Publishing Agroprint Timisoara, pag. 99-102, ISSN 1453-1402

**L3.** Mure an Claudia, Dicu Anca, Ciutina V., **Palcu S.**, – Enzimatic mixtures utilisation in superior red wines obtaining technology; Scientific and Technical Bulletin, “Aurel Vlaicu” University of Arad, **2006** Series: Chemistry, Food Science& Engineering, vol. 11, pg. 152-155, ISSN 1582-1021

**L4.** Mure an Claudia, Chi S., **Palcu S.**, Elisabeta Ivan, **2007** – The influence of external enzymatic mixtures on the physicochemical characteristics of red wines from Minis vineyard; University of Agricultural Sciences and Veterinary Medicine of Banat, - XI Series Scientific research Publishing Agroprint Timisoara, Ed. Agroprint, pg.150-152, ISSN 1453-1402

**L5.** **Palcu S.** Mure an Claudia, Chi S. **2007** – Resercers regarding the toxicity of some plants from wild flora of Arad county, University of Agricultural Sciences and Veterinary Medicine of Banat, - XI Serie Scientific rsearch Publishing Agroprint Timisoara, Ed. Agroprint, pg.507-510, ISSN 1453-1402

**L6.**Mure an Claudia, Chi S.,Ciutina V., **Palcu S.**, **2008** - The evolution of phenolic compounds during technological proces sat superiors red wines from Burgund variety, Scientific research - "Horticulture / Genetic Engineering”, Seria a XII-a, Ed. Agroprint Timi oara, pg. 102-105, ISSN 1453-1402

**L7.** **Palcu S.E.**, Zamfir Alina, Mure an Claudia, **2008** - Researches concerning extraction and dosage technology of hydrosoluble B complex vitamins by using some garden and agricultural crop plants as raw material, Annales of the University of Craiova, vol. XIII (XLIX), pg. 283-286, Editura Universitaria, ISSN 1435 – 1275

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## Category C CNCSIS

**L8.** Zdrem an Monica, **Palcu S.**, - The chemical composition of the tobacco smoke, Scien. And Techn. Bull. of Univ. "A. Vlaicu" Arad, **2002**, Vol.7, pag. 51-54, ISSN 1582-1021

**L9.** **Palcu S.**, Popescu I. – The influence of temperature on amylase activity of honey determined by the index of diastase, Arad **2003**, Vol.8, pag. 76-79, ISSN 1582-1021

**L10.** **Palcu S.**, Zdrem an Monica, Iva cu Antonia – Researches regarding the genitors of Peach and Nectarine trees with resistance to mildew – Scientific research, Series VIII, University of Agricultural Sciences and Veterinary Medicine of Banat, Timisoara, Faculty of Horticulture, **2004**, pag. 423-426

**L11.** Popescu I., Rus nescu N., **Palcu S.**– The effects of poly-vinyl-pyrrolidone in assuring colloidal stability for beer, Scientifical Researches. Agroalimentary Processes and Technologies, Timi oara, **2004**, vol. X, Nr.2, pag. 411-416, ISSN 1453-1399

**L12.** **Palcu S.**, Popescu I – Experimental Studies Regarding the Bacterial Metabolism of Sugars, Scientifical Researches, Agroalimentary Processes and Technologies, Volume XI, No.2 , Arad, **2005**, 315-320

## 7. Articles published in proceedings of national scientific

**Vn1.** **Palcu S.E.**, Cristea Heraclia Daniela, Chi S. – The in vitro study of the activity of glutamate-oxaloacetate transaminase changes in the liver by the action of sodium on the concentration amitalului – Annals of "Aurel Vlaicu" Arad, Series Chemistry, Fascicule: Food Engineering, **2004**, pag. 14-18, ISSN : 1582 – 3415

**Vn2.** **Palcu S.E.**, Chi S., Cristea Heraclia Daniela – To obtain protein hydrolysates under the action of ultrasound. The action of ultrasound on edestinei -Annals of "Aurel Vlaicu" Arad, Series Chemistry, Fascicule: Food Engineering, **2004**, pag. 19-23, ISSN :1582 – 3415

## 8. Research-development-innovation under contract / grant

**Pn1.** “ Integrating the Romanian center for biomedical mass spectrometry high performance international and European Research Area“ Total value 200.000 RON from wich 40.000 RON return UAV period 2006 – 2008, research team member

**Pn2.** „Influence of foliar fertilizer with trace elements on the quality grapes and red wine assortment Vineyard Minis-Maderat ” Beneficiary SCDVV Mini , responsible UAV Conf.Dr.Ing. Ciutin Virgiliu, period 2008 – 2009, research team member, contract 1362/26.05.2008

**Pn3.** „The influence of fertilization on growth and production processes sugar beet”, Beneficiary Chi Emil, responsible UAV : Conf.Dr.Ing. Calinovici Ioan, Contract Nr. 3042/ 5.12.2008, team member

**Pn4.** POSDRU/135/5.2/S/128939– „RURAL DEVELOPMENT! Sustainable development of rural areas in the West and Northwest” - Period 2014 - 2015

**Pn5.** National project CNFIS-FDI-2018-0347: Laboratory at the pilot distillation scale for student practice, Director : Copolovici Lucian, Membri din DSTN: Copolovici Dana, Palcu Sergiu, Mure an Claudia, Ciutina Virgiliu, Lungu Monica . Total approved value: 262.000 Lei

**Pn6.** POSDRU/165/6.2/S/146189 – Diversity in the social economy(Member)

**Pn7.** National project CNFIS-FDI-2018-0347: Pilot scale distillation laboratory for student practice, Director : Copolovici Lucian, the members of DSTN: Copolovici Dana, Palcu Sergiu, Mure an Claudia, Ciutina Virgiliu, Lungu Monica . The total amount approved : 262.000 Lei . Period May 2018 - December 2018 .

**Pn8.** National project CNFIS-FDI-2019-0150: Pilot scale laboratory for the processing of meat products, Director : Copolovici Lucian, the members of DSTN: Lile Ramona, Copolovici

Dana, Ciutina Virgiliu, Lungu Monica, Palcu Sergiu, Mure an Claudia, Ursachi Claudiu. The total amount approved : 262.000 Lei . Period June 2019 - November 2019

**Pn9.** National project CNFIS-FDI-2023-F-0313 : Laboratory for evaluating the quality and nutritional properties of food products for student practice, Director: Lucian Copolovici, Members: R. Lile, T. Cilan, A. Popa, C. Stoica, S. Palcu, D. Copolovici, C. Ursachi, A. Dicu, C. Moisa, A. Lupitu . Period: 2023-06-01 ÷ 2023-12-31 Value: 234.000 Lei Nr. months: 7

**Date**  
**30.09.2024**

**Ph.D.Eng. Lecturer SERGIU ERICH PALCU**

A handwritten signature in blue ink, appearing to read 'Sergiu Erich Palcu', with a horizontal line extending to the right and a small mark at the end.