

**Râpeanu Gabriela**

## **LISTA LUCRĂRIOR TIIN(IFICE)**

### **A. Teza de doctorat**

Caracterizarea biochimica si studiul kinetic al inactivarii la temperatura si/sau presiune inalta a polifenoloxidazei din struguri albi, 2005, Universitatea “Dunarea de Jos” din Galati cu distinctia “*Cum laudee*”, conducator: Prof. dr. ing. Mircea BULANCEA

### **B. Cărți și capitole în cărți publicate în ultimii 10 ani**

#### **[B1] Autor**

- [1]. Râpeanu G., 2010, Controlul falsificarilor produselor alimentare, Ed. Didactica si Pedagogica Bucuresti, ISBN 978-973-30-2726-3, 260 pg.
- [2]. Râpeanu G., 2008, Îmbrunarea enzimatică a musturilor și vinurilor, Editura Didactică și Pedagogică, București, ISBN 978-973-30-2058-5, 181 pg.

#### **[B2] Coautor**

- [1]. Stanciu N., Râpeanu G., Stanciu S., 2011, Trasabilitate. Concepte fundamentale și specifice laptei și produselor lactate, Editura Academica Galati, 272 pag
- [2]. Bulancea M., Râpeanu G., 2009, Autentificarea și identificarea falsificarilor produselor alimentare, Ed. Didactica si Pedagogica Bucuresti, ISBN 978-973-30-2507-8, 421 pg.
- [3]. Croitor N., Râpeanu G., 2008, Fructele și legumele, In Alimentele ecologice, Editor G.M. Costin, Ed. Academica, ISBN 978-973-8937-39-0, 422 pg.
- [4]. Banu C., Alexe P., Bulancea M., Ana Alex., Macovei V., Mustea G., Rubcov S., Râpeanu G., s.a, 2006, Dictionar explicativ pentru tineri și tehnologie - Industrie alimentară, Editura Agir. București, ISBN 973-720-079-2, 1114 pg.

### **C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani**

#### **[C1] Articole/studii publicate în reviste de circulație internațională, ISI**

- [1]. Constantin O. E., Skrt M., Poklar Ulrich N., Râpeanu G., 2015, Anthocyanins profile, total phenolics and antioxidant activity of two Romanian red grape varieties: Fetească neagră and Băbească neagră (*Vitis vinifera*), *Chemical papers*, in press.
- [2]. Stanciu N., Aprodu I., Ioniță E., Bahrim G., Râpeanu G., 2015, Exploring the structure-function relationship of horseradish peroxidase through investigation of pH and heat induced conformational changes, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 147, 43-50.
- [3]. Constantin O. E., Kukurová K., Neagu C., Bednáriková A., Ciesarová Z., Râpeanu G., 2014, Modelling of acrylamide formation in thermally treated red bell peppers (*Capsicum annuum L.*), *European Food Research and Technology*, 238(1), 149-156.
- [4]. Ioniță E., Aprodu I., Stanciu N., Râpeanu G., Bahrim G., 2014. Advances in structure-function relationships of tyrosinase from *Agaricus bisporus* – Investigation on heat-induced conformational changes. *Food Chemistry*, 156, 129–136.

- [5]. Ioni E., St nciuc N., Aprodu I., **Râpeanu G.**, Bahrim G., 2014. pH-induced structural changes of tyrosinase from Agaricus bisporus using fluorescence and in silico methods. *Journal of the Science of Food and Agriculture*, 94(11), 2338-2344.
- [6]. Aprodu I., St nciuc N., Dumitrascu L., **Râpeanu G.**, Stanciu S., 2014. Investigations towards understanding the thermal denaturation of lactoperoxidase, *International Dairy Journal*, 38(1), 47-54.
- [7]. Dumitrascu L., St nciuc N., Stanciu, S., **Râpeanu, G.** 2014. Inactivation kinetics of alkaline phosphatase from different species of milk using quinolyl phosphate as a substrate, *Food Science and Biotechnology*, 23(6), 1773-1778.
- [8]. Dumitrascu L., Moschopoulou E., Aprodu I., Stanciu S., **Râpeanu G.**, Stanciu N., 2013, Assessing the heat induced changes in major cow and non-cow whey proteins conformation on kinetic and thermodynamic basis, *Small Ruminant Research*, 111(1-3), 129-138.
- [9]. Bichescu C., Bahrim G., St nciuc N., **Râpeanu G.**, 2013, Effect of maceration on the making of Feteasca neagra wines, *Journal of Food, Agriculture & Environment*, 11(1), 273-277.
- [10]. Stanciu N., Aprodu I., **Râpeanu G.**, van der Plancken I., Bahrim G., Hendrickx M., 2013, Analysis of the Thermally Induced Structural Changes of Bovine Lactoferrin, *Journal of Agricultural and Food Chemistry*, 61(9), 2234-2243.
- [11]. Stanciu N., Aprodu I., **Râpeanu G.**, Bahrim G., 2013, pH- and heat-induced structural changes of bovine alpha-lactalbumin in response to oleic acid binding, *European Food Research and Technology*, 236(2), 257-266.
- [12]. Dumitrascu L., St nciuc, N., Stanciu S., **Râpeanu G.**, 2012, Thermal inactivation of lactoperoxidase in goat, sheep and bovine milk - A comparative kinetic and thermodynamic study, *Journal of Food Engineering*, 113(1), 47-52.
- [13]. Postolache E., Popescu C., Ciubuca A., **Râpeanu G.**, Bulancea M., 2012, Dynamics of oxidative enzymes activity during the white grapes wine-making, *Journal of Environmental Protection and Ecology*, 13(3), 1608-1615.
- [14]. St nciuc, N., **Râpeanu, G.**, Bahrim G., Aprodu I., 2012, pH and heat-induced structural changes of bovine apo- -lactalbumin, *Food Chemistry*, 94(2), 953-961.
- [15]. St nciuc, N., Dumitrascu, L., Ardelean, A., Stanciu, S., **Râpeanu, G.**, 2012, A kinetic study on the heat induced changes of whey proteins concentrate at two pH values, *Food and Bioprocess Technology*, 5(6), 2160-2171.
- [16]. Codre i C., Alexe P., **Râpeanu G.**, 2012, Synergy between selected yeast and -glucosidase activity of enzymatic preparations used to obtain Chardonnay wines, *Journal of Food, Agriculture & Environment*, 10(2), 94-98.
- [17]. St nciuc, N., Aprodu I., **Râpeanu G.**, Bahrim G., 2012, Fluorescence spectroscopy and molecular modeling investigations on the thermally induced structural changes of bovine beta-lactoglobulin, *Innovative Food Science & Emerging Technologies*, 15, 50-56.
- [18]. Aboubakar, Bonciu C., **Rapeanu G.**, Njintang, N., Mbafung C.M., Bahrim G., 2012, Biochemical and structural changes of taro (*Colocasia esculenta*) tubers during simple thermal treatments (low temperature) or in combination with chemicals, *Food Bioprocess Technology*, 5(7), 2739-2747.
- [19]. St nciuc, N., Ardelean, A., Diaconu, V., **Râpeanu, G.**, Stanciu, S., Nicolau, A., 2011, Kinetic and thermodynamic parameters of alkaline phosphatase and – glutamyl transferase inactivation in bovine milk, *Dairy Science & Technology* (formely *Le Lait*), 91(6), 701-717.

- [20]. St nciuc, N., Dumitrascu, L., Stanciu, S., **Râpeanu, G.**, 2011. -glutamyl transferase inactivation in milk and cream: a comparativ kinetic study, Innovative Food Science and Emerging Technologies, 12, 56–61.
- [21]. St nciuc, N., **Râpeanu, G.**, 2010, Identification of adulterated sheep and goat cheeses marketed in Romania by immunocromatographic assay, Food and Agriculture Immunology, Vol. 21, Issue 2, 157-164.
- [22]. St nciuc, N., **Râpeanu, G.**, Stanciu, S., 2010. Quantitative evaluation on Maillard reactions in model systems: a kinetic study, Romanian Biotechnological Letters, Vol. 15, No.3, 5329-5339.
- [23]. Badea V., Balaban D.P., **Râpeanu G.**, Amariei C., Badea C.F., 2009, The antibacterial activity evaluation of Cystoseira barbata biomass and some alginates upon bacteria from oropharyngeal cavity, Romanian Biotechnological Letters, 14(6), 4851-4857.
- [24]. **Râpeanu G.**, Bolocan A., Gazi I., Bahrim G., 2008, Metabolic activity stimulation of the wine yeasts by polyphenols extracted from red grapes, Romanian Biotechnological Letters, 13(5), 9-16.
- [25]. **Râpeanu G.**, Parfene G., Horincar V., Polcovnicu C., Ionescu L., Bahrim G., 2008, Confirmation and identification of *Listeria* species from fresh lettuce, Romanian Biotechnological Letters, 13(6), 32-36.
- [26]. **Râpeanu G.**, Van Loey A., Smout C., Hendrickx M., 2006, Biochemical characterisation and process stability of polyphenoloxidase extracted from Victoria grapes (*Vitis Vinifera ssp. Sativa*), Food Chemistry, 94(2), 253-261.
- [27]. **Râpeanu G.**, Van Loey A., Smout C., Hendrickx M., 2006, Thermal and high pressure inactivation kinetics of Victoria grape polyphenol oxidase from model systems to real system studies, Journal of Food Process Engineering, 29 (3), 269-286.
- [28]. Dalmadi I., **Râpeanu G.**, Van Loey A., Smout C., Hendrickx M, 2006, Characterisation and inactivation by thermal and pressure processing of strawberry (*Fragaria ananassa*) polyphenol oxidase: a kinetic study, Journal of Food Biochemistry, 30(1), 56-76.
- [29]. **Râpeanu G.**, Van Loey A., Smout C., Hendrickx M., 2005, Thermal and high pressure inactivation kinetics of polyphenol oxidase in Victoria grape must, Journal of Agricultural and Food Chemistry, 58(8), 2988-2994.
- [30]. **Râpeanu G.**, Van Loey A., Smout C., Hendrickx M., 2005, Effect of pH on thermal and/or pressure inactivation of Victoria grape (*Vitis Vinifera ssp. Sativa*) polyphenol oxidase: a kinetic study, Journal of Food Science, 70(5), E301-307.

#### **[C2] Articole publicate in reviste indexate in baze de date internationale**

- [1]. Bichescu C., Bahrim G., St nciuc N., **Râpeanu G.**, 2012, Color enhancement of Feteasc neagr wines by using pectolytic enzymes during maceration, The Annals of the University Dunarea de Jos of Galati, Fascicle VI – Food Technology, ISSN 1843 - 5157, New Series, Year III (XXXIII), 36(1), 18-25 [http://www.ann.ugal.ro/tpa/ft\\_2012\\_no\\_1.htm](http://www.ann.ugal.ro/tpa/ft_2012_no_1.htm)
- [2]. Codre i C., Alexe P., **Râpeanu G.**, 2012, *Effect of -glucosidases in the making of Chardonnay wines*, The Annals of the University Dunarea de Jos of Galati, Fascicle VI – Food Technology, ISSN 1843 - 5157, New Series, Year III (XXXIII), 36(1), 9-17. [http://www.ann.ugal.ro/tpa/ft\\_2012\\_no\\_1.htm](http://www.ann.ugal.ro/tpa/ft_2012_no_1.htm)
- [3]. Codre i C., **Râpeanu G.**, Alexe P., 2012, *Evolution of flavoured compounds during maturation of Chardonnay grapes*, Journal of Agroalimentary Processes and Technologies, 18(3), 242-246.

- [4]. Hînțoiu, A., **Râpeanu, G.**, Stanciu S., St nciuc, N., 2011, The effect of pH and thermal treatment on some functional properties of whey proteins hydrolysates as measured by fluorescence spectroscopy, *Journal of Agroalimentary Processes and Technologies*, 17(2), 179-185.
- [5]. St nciuc N., Dima, S. **Râpeanu G.**, 2011, Effect of calcium addition on the thermal denaturation of bovine apo- -lactalbumin – a Preliminary study, *Innovative Romanian Food Biotechnology*, Vol. 9, Issue of September, 45-51.
- [6]. Nicolae Lauren iu Itu, **Gabriela Râpeanu**, Traian Hopulele, 2011, *Effect of maceration enzymes addition on the aromatic white winemaking*, The Annals of the University Dunarea de Jos of Galati, Fascicle VI – Food Technology 35(1), 77-91, [Anale 2011/vol 1/Full paper NLItu.pdf](#)
- [7]. Liliana Dr ghici, **Gabriela Râpeanu**, 2011, Evolution of polyphenols during the maceration of the red grapes, *Journal of Agroalimentary Processes and Technologies*, 17(2), 169-172
- [8]. Itu N., **Rapeanu G.**, 2011, *The use of commercial enzymes in white grape must clarification*, Journal of Agroalimentary Processes and Technologies, 17(3), 281-286
- [9]. Liliana Draghici, **Gabriela Râpeanu** and Traian Hopulele, 2011, *Evolution of polyphenolic compounds during maturation of Cabernet Sauvignon grapes from Dealu Mare vineyard*, 22(1), 15-20, [http://www.univ-ovidius.ro/anale-chimie/chemistry/2011-1/full/3 draghici.pdf](#)
- [10]. Itu N., **Râpeanu G.**, Hopulele T., 2011, *Assessment of free and potentially volatile monoterpenes in Muscat Ottonel grapes variety*, Ovidius University Annals of Chemistry, 22(1), 27-31. [http://www.univ-ovidius.ro/anale-chimie/chemistry/2011-1/5 Itu.pdf](#)
- [11]. Stanciu N., **Râpeanu G.**, 2010, An overview of bovine -lactalbumin structure and functionality, The Annals of the University Dunarea de Jos of Galati, Fascicle VI – Food Technology, ISSN 1843 - 5157, 34(2), 82-93 ([Anale 2010/Vol 2/Full Paper NStanciu](#))
- [12]. Popescu C., Postolache E., **Râpeanu G.**, Bulancea M., Hopulele T., 2010, The dynamics of oxidative enzymes during the white winemaking, The Annals of the University Dunarea de Jos of Galati, Fascicle VI – Food Technology, ISSN 1843 – 5157, 34(1), 25-31.
- [13]. Dumitrascu L., Stanciu N., Ardelean A., Stanciu S., **Râpeanu G.**, 2010, Heat-induced changes in some technological properties of whey proteins concentrate, Journal of Agroalimentary Processes and Technologies, ISSN 1453-1399,16 (2), pp. 130-135.
- [14]. St nciuc, N., Hin oiu, A., Stanciu, S., **Râpeanu, G.**, 2010, Thermal treatment can modify the susceptibility of whey protein concentrate to enzymatic hydrolysis, *Innovative Romanian Food Biotechnology*, Vol. 7, Issues of September, pg. 30-36, [http://www.bioaliment.ugal.ro/ejournal.html](#);
- [15]. Popescu C., Postolache E., Ciubuc A., **Râpeanu G.**, Hopulele T., 2010, 2010, The effect of noble mould (*Botryotinia fuckeliana*) contamination on the dynamics of the enzymatic oxidation, Journal of Agroalimentary Processes and Technologies, ISSN 1453-1399,16 (1), pp. 13-18.
- [16]. St nciuc N., Stanciu S., Nistor C., **Rapeanu G.**, Bahrim G., 2010, An overview on the current status of Romanian biotechnology in educational and trade sector, Innovative Romanian Food Biotechnology, Vol. 7, Issues of September, pg. 1-11, [http://www.bioaliment.ugal.ro/ejournal.html](#)
- [17]. Maria Cioroi, Lucian Tudor Miron, **Gabriela Rapeanu**, Nicoleta, Stanciu, Elena Postolache, Constanta Vicol, 2010, Study on free radical scavenging and total polyphenols of some romanian wines, *Journal Food and Environment Safety of the Suceava University*, Food Engineering, Year IX, No. 4 – 2010, 55-60.
- [18]. Vicol C., **Râpeanu G.**, Bahrim G., 2010, Evaluation of Romanian wine adulteration from Cotesti vineyard, *Journal of Agroalimentary Processes and Technologies*, 16(3), 294-298.

- [19]. Patrascu E., **Rapeanu G.**, Bonciu C., Hopulele T., 2010, Comparative study of the multiplication and fermentation yields by using different *Saccharomyces* yeast strains to ethanol production, *Journal of Agroalimentary Processes and Technologies*, 15(3), 289-293.
- [20]. Carmen Popescu, Elena Postolache, **Gabriela Rapeanu**, Mircea Bulancea, Traian Hopulele, The dynamics of oxidative enzymes during the white winemaking, *The Annals of the University Dunarea de Jos of Galati*, Fascicle VI – Food Technology 34(1), 25-31, [Anale 2010/vol 1/Full paper CPopescu.pdf](#)
- [21]. Stanciu N., **Rapeanu G.**, Stanciu S., 2009, Assessment of casein content in model systems during heat treatment, *The Annals of the University Dunarea de Jos of Galati*, Fascicle VI – Food Technology, ISSN 1843 - 5157, New Series, Year III (XXXIII), 2009, p 9–15. [Anale 2009\Full paper NStanciu.pdf](#)
- [22]. Patrascu E., **Rapeanu G.**, Bonciu C., Hopulele T., 2009, Bioethanol production from molasses by different strains of *Saccharomyces cerevisiae*, *The Annals of the University Dunarea de Jos of Galati*, Fascicle VI – Food Technology, ISSN 1843 - 5157, New Series, Year III (XXXIII), 2009, p 50–57, [Anale 2009\vol 2\Full paper EPatrascu.pdf](#)
- [23]. Vicol C., **Rapeanu G.**, Bahrim G., 2009, Identification of Romanian wine adulteration from Vrancea county, *The Annals of the University Dunarea de Jos of Galati*, Fascicle VI – Food Technology, ISSN 1843 - 5157, New Series, Year III (XXXIII), 2009, p 91–95, [Anale 2009\Full paper CVicol.pdf](#)
- [24]. Popescu C., Postolache E., **Rapeanu G.**, Bulancea M., Hopulele T., 9-10 octombrie 2009, Modificarea indicilor fizico- chimici i a activitii enzimelor oxidative în timpul maturării strugurilor albi (Change of the physico- chemical indices and the oxidative enzymatic activities during the white grapes maturation), *The Annals of the University Dunarea de Jos of Galati*, Fascicle VI – Food Technology, ISSN 1843 - 5157, New Series, Year III (XXXIII), 2009, p 70 -76 ([Anale 2009\Full paper CPopescu.pdf](#)).
- [25]. Patrascu E., **Rapeanu G.**, Bonciu C., Vicol C., Bahrim G., 2009, Investigation of yeast performances in the fermentation of beet and cane molasses to ethanol production, *Ovidius University Annals of Chemistry*, Volume 20, Number 2, pp.199-204.
- [26]. Popescu C., Postolache E., Ciubuc A., **Rapeanu G.**, Hopulele T., 2009, Activitatea enzimelor oxidative în timpul producției vinurilor albe (Activity of the oxidizing enzymes during the white winemaking), *Journal of Agroalimentary Processes and Technologies* 2009, ISSN 1453-1399,15 (4), pp. 592- 598
- [27]. Patrascu E., **Rapeanu G.**, Hopulele T., 2009, Current approaches to efficient biotechnological production of ethanol, *Innovative Romanian Food Biotechnology*, 1, 1-11.
- [28]. **Rapeanu G.**, Vicol, C., Bichescu, C., 2009, Possibilities to assess the wines authenticity, *Innovative Romanian Food Biotechnology*, 2, 1- 9.
- [29]. Ifrim G., Bahrim G., **Rapeanu G.**, 2008, Nitrogen Removal Strategy from Baker's Yeast Industry Effluents, *Innovative Romanian Food Biotechnology*, 2, ISSN 1843-6099, p. 11-24.
- [30]. **Rapeanu G.**, 2005, Influence of pH on thermostability of grape polyphenoloxidase - a kinetic study, *Annals of the University „Dunarea de Jos“ of Galați*, vol. XXIII (XXVIII), ISSN 1221-4574, p. 15-19. (Publisher: Universitatea "Dunarea de Jos" din Galati, CODEN: AUDJCG Journal written in English. CAN 145:309106, AN 2006:365903, CAPLUS (Copyright (C) 2008 ACS on SciFinder (R)).

**D. Lucrări publicate în ultimii 10 ani în reviste și volume de conferințe cu referințe (neindexate)**

- [1]. Râpeanu G., Stanciu (Sava) N., Vicol C., Bahrim G., 2009, *Possibility to Identify Romanian Wines Adulteration*, EuroFoodChem XV Food for the future, July 5-8, Copenhagen, Denmark, p.104-107.
- [2]. Stanciu (Sava) N., Râpeanu G., 2009, *Analytical tracers for the heat treatment of milk: the case of -lactoglobulin*, EuroFoodChem XV Food for the future, July 5-8, Copenhagen, Denmark, p. 265-268.
- [3]. Râpeanu G., Van Loey A., Smout C., Hendrickx M., 2007, Mathematical model to describe combined pressure temperature dependence of grape PPO inactivation in a model system at pH 3.0, 3 CIGR, September 24-26, Naples, Italy, p. 1-9 (<http://www.aidic.it/3CIGR/program.htm>).
- [4]. Râpeanu G., 2007, Pressure and thermal inactivation kinetics of white grape PPO: from model systems to real system studies, OENO 2007, June 25-27, Bordeaux, France, p.213-216 (<http://www.oenologie.u-bordeaux2.fr/sympo/francais/programme.htm>).
- [5]. Sava N., Râpeanu G., Rotaru G., Bulancea M., 2007, Traceability in Romanian wine food safety systems, OENO 2007, June 25-27, Bordeaux, France, p. 276-279.  
(<http://www.oenologie.u-bordeaux2.fr/sympo/francais/programme.htm>).
- [6]. Râpeanu G., El Murr N., Poulard A., 2006, L'utilisation d'un courant continu de faible intensité comme moyen de stabilisation microbiologique de cidre, SAR 2006, novembre 27-29, Tunis, Tunisie, p. 45-49.
- [7]. Râpeanu G., Van Loey A., Smout C., Hendrickx M., 2006, Mild heat and high pressure inactivation kinetics of grape polyphenoloxidase, IUFoST 2006, September 17-21, Nantes, France, p. 225-226, [http://www.gp3a.auf.org/IMG/pdf/IUFOST\\_Nantes\\_06.pdf](http://www.gp3a.auf.org/IMG/pdf/IUFOST_Nantes_06.pdf).
- [8]. Râpeanu, G. Bahrim, G. Soptica F., Bulancea M., Extracts of some Traditional Flavouring Plants as Potential Food Preservatives. Innovations in Traditional Foods. INTRAFOOD 2005, 25-28 october, Valencia, Spain. Congress Proceedings edited by Pedro Fito and Fidel Todrá, vol II, Elsevier, p. 1265-1268, ISBN 84-9705-879-8; 84-9705-881-X, <http://www.effost-conference.elsevier.com/index.htm>
- [9]. Bahrim G., Râpeanu G., Soptica, F., Croitor N., Ana Al., Bulancea M., 2005, Plant and Fungal Flavonoids as Potential Functional Food Aditives. Innovations in Traditional Foods. INTRAFOOD 2005, 25-28 october, Valencia, Spain. Congress Proceedings edited by Pedro Fito and Fidel Todrá, vol II, Elsevier, p.1155-1158, ISBN 84-9705-879-8; 84-9705-881-X, <http://www.effost-conference.elsevier.com/index.htm>

## E. Brevete ob inute în întreaga activitate

**Data:**

**15.09.2015**

**Semn tura:**

