

Personal information

Name and surname: RÂPEANU T. GABRIELA

Date and place of birth: July the 13th 1973, Galati

Present academic position: Professor, „Dunărea de Jos” University of Galati, Faculty of Food Science and Engineering

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Education

1998-2005: PhD, „Dunărea de Jos” University of Galati

1997-1998: Post-graduation qualification in Pedagogy, „Dunărea de Jos” University of Galati

1997-1998: MSc in Special Technology of Food Industry, „Dunărea de Jos” University of Galati

1992-1997: BS in Food Technology, Faculty of Food Science and Engineering, „Dunărea de Jos” University of Galati

1988-1992: Baccalaureate, Emil Racovita High School, Galati

Professional experience

since 2013: Professor, „Dunarea de Jos” University of Galati

2008-2013: Associate Professor, „Dunarea de Jos” University of Galati

2006-2008: Lecturer, „Dunarea de Jos” University of Galati

2003-2004: Marie-Curie fellowship at the Faculty of Agricultural and Applied Biological Sciences, Laboratory of Food Technology, Department of Food and Microbial Technology, KULeuven, Belgium (**12 months**)

2002: TOPE-AXEST fellowship, Faculty of Sciences, University Nantes, France (**10 months**)

1998-2006: Teaching Assistant, „Dunarea de Jos” University of Galati

Research interests

Food authentication and control of food adulteration; Extraction and characterization of natural bioactive compounds from different resources and their use as potential functional additives; White and red grapes winemaking by using modern biotechnology.

Selected publications

Turturică M., Stănciuc N., Bahrim G., **Râpeanu G.**, 2016, *Effect of thermal treatment on phenolic compounds from plum (prunus domestica) extracts – A kinetic study*, Journal of Food Engineering, 171, 200-207.

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, 69(12), 1573-1581.

Stănciuc 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.

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.

Ioniță E., Aprodu I., Stănciuc 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.

Ioniță E., Stănciuc 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.

Aprodu I., Stănciuc N., Dumitrascu L., **Râpeanu G.**, Stanciu S., 2014. *Investigations towards understanding the thermal denaturation of lactoperoxidase*, International Dairy Journal, 38(1), 47-54.

Dumitrascu L., Stănciuc 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.

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.

Stănciuc, N., **Râpeanu, G.**, Bahrim G., Aprodu I., 2012, *pH and heat-induced structural changes of bovine apo- α -lactalbumin*, Food Chemistry, 94(2), 953–961.

Stănciuc 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.

Aboubakar, Bonciu C., **Râpeanu G.**, Njintang N., Mbofung C.M., Bahrim G., 2011, *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.

Stănciuc N., Dumitrascu L., Stanciu S., **Râpeanu G.**, 2011. *γ -glutamyl transferase inactivation in milk and cream: a comparative kinetic study*, Innovative Food Science and Emerging Technologies, 12, 56–61.

Stănciuc N., **Rapeanu 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.

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.

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.

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.

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.

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.

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.

Selected research grants

2013-2015, *Thermal and/or non thermal technology as a tool to increase the health functionality of bioactive compounds in fruit based food*, PN-II-ID-PCE-2012-4-0509 - project manager.

2013-2015 Bilateral collaboration Romania Slovakia nr. 645/17.04.2013, *Impact of thermal treatment on antioxidant capacity and acrylamide formation in fruit based food* ANTACRYFOOD – project manager.

2012-2014, Bilateral collaboration Romania Slovenia nr. 630/05.06.2012, *Effect of thermal treatment on bioactive compounds from different Romanian and Slovenian juices and jams* BIOTHERMAL – project manager.

2011-2013, Bilateral collaboration Romania Slovakia nr. 479/17.03.2011, *Evaluation of antioxidant capacity and acrylamide formation in different thermally processed vegetables* ANTACRYVEG – project manager.

2010-2012, Bilateral collaboration Romania-Bulgaria nr. 448CB/4.10.2010, *Elaboration formulas and technologies for new functional foods and beverages production* FOODFUNCFORM – project manager.

2012-2015, COST Action 1106, *An integrated systems approach to determine the developmental mechanisms controlling fleshy fruit quality in tomato and grapevine*, member in Committee Management of the Action (<http://qualityfruit.inp-toulouse.fr/en/home.html>) .

2007-2011, COST Action FA602, *Bioactive Food Components, Mitochondrial Function and Health*, member in Committee Management of the Action (http://w3.cost.eu/index.php?id=182&action_number=FA0602) .

Other academic activities

Research responsible for the *Integrated Research and Training Center for Applied Biotechnology in Food Industry – BIOALIMENT* (<http://bioaliment.ugal.ro/>).

Executive Editor for the electronic journal *Innovative Romanian Food Biotechnology* (<http://bioaliment.ugal.ro/ejournal.htm>).

Since 2011 Member of Editorial Board for the international journal *Romanian Biotechnological Letters*.

2011-2013 member of National research Council (CNCS) <http://www.cncs-uefiscdi.ro/cnsc-members/> (Chair of the Life Sciences and Biotechnolgy Committee).

2009-2011 Member of Committee 5: Agricultural Sciences and Veterinary Medicine Committee of National University Research Council (CNCSIS) (http://www.cncsis.ro/comisia_5.php).

Since 2005 Evaluator for the Romanian research projects supported by The National University Research Council (CNCSIS/CNCS) (www.cncsis.ro/experti_2006.php) and the National Authority for Scientific Research (ANCS) (www.experti-cdi.ro).