CURRICULUM VITAE

Kooshan Nayebzadeh, Ph.D.

Assistant Professor Department of Food Science and Technology, Faculty of Nutrition , Food Science and Technology Shahid Beheshti University of Medical Sciences No.7, West Arghavan St., Farahzadi Blvd. Tehran, Iran P.O.Box:19395-4741 Telefax: +98 21 22376426 Mobile: +98 912 150 4215 E-mail:Knayebz@sbmu.ac.ir Nationality: Iran Date of Birth: 18/09/1971

Educational Qualifications

2001-2006	Ph.D.	Tehran University, Iran Food Science & Technology Emphasis: Food Technology & Processing Dissertation: Interaction of Protein and Polysaccharide on Rheological Properties, Surface structure and Microstructure of Protein Gel and Emulsion
1995-1998	M.Sc.	Ferdowsi Mashhad University, Iran Food Science & Technology Emphasis: Food Technology & Processing Thesis:Physiochemical and organoleptical Properties of Parvin
1990-1994	B.Sc.	Tehran University, Iran Food Science & Technology

Professional Experience

2010- Present	Assistant Professor, Department of Food Science and Technology, Faculty of Nutrition, Food Science and Technology Shahid Beheshti University of Medical Sciences
2002-2010 Co.	Research & Quality Control Deputy, Mahram Production Group
2005(March-August)	Visiting Scholar , Procter Department of Food Science, University of Leeds, UK.

University Teaching Experience

Courses taught at Shaheed Beheshti University of Medical Science:

Food Preservation Techniques (lecture; 2 credit) Taught Spring and Fall semester 2010present Edible Oil Processing (lecture; 2 credit) Taught Spring and Fall semester 2010-present Cereal Technology (lecture; 2 credit) Taught Spring and Fall semester 2010-2012 Treatment of Water and Wastewater (lecture; 2 credit) Taught Spring and Fall semester 2012-2014 Novel Food Processing (lecture; 3 credit; postgraduate) Taught Fall semester 2010-present Advanced Edible Oil Processing (lecture; 2 credit; postgraduate) Taught Spring semester 2012-present Flavors Chemistry (lecture; 2 credit; postgraduate) Taught Fall semester 2011- present Seminar (lecture; 1credit; graduate and postgraduate) Taught Spring and Fall semester 2011present

Awards & Honors

-Shahid Beheshti University of Medical Sciences outstanding scientific board, 2011.

-Shahid Beheshti University of Medical Sciences outstanding scientific board, 2013.

Papers

Refereed Journal Articles *= corresponding author

Kooshan Nayebzadeh, Jianshe Chen, Eric Dickinson, Thomas Moschakis. Surface structure smoothing effect of polysaccharide on a heat-set protein particle gel. *Langmuir*. 2006 10;22 (21):8873-80.

Kooshan Nayebzadeh, Jianshe Chen, SM Mohammad Mousavi . Interactions of WPI and Xanthan in Microstructure and Rheological Properties of Gels and Emulsions. *International Journal of Food Engineering*. 2007, Vol. 3 : Iss. 4, Article 9.

Kooshan Nayebzadeh, S.Razavi, M.Habibi. Effect of soy milk substitution on physical, chemical and organoleptical properties of ice cream. *Journal of Agriculture Science of Iran*. 1999.

Elahe Omidbakhsh amiri & **Kooshan Nayebzadeh*** & Mohammad Amin Mohammadifar. Comparativestudies of xanthan, guar and tragacanth gums on stability and rheological properties of fresh and stored ketchup. *Journal of Food Science and Technology*. 2015 52(11):7123–7132.

Mohsen Atefi, **Kooshan Nayebzadeh***, Abdorreza Mohammadi. Using β-cyclodextrin and Arabic gum as wall materials for encapsulation of Saffron essential oil. *Iranian Journal of Pharmaceutical Research*. (2017), V0lume 16, Issue 1, 93.

Leila Alizadeh, **Kooshan Nayebzadeh***. A comparative study on the in vitro antioxidant activity of tocopherol and extracts from rosemary and Ferulago angulata on oil oxidation during deep frying of potato slices. *Journal of Food Science and Technology*. 2016, 53(1):611–620.

Mehrdad Haghshenas, Hedayat Hosseini, **Kooshan Nayebzadeh**, Behnoosh Shabkoohi Kakesh, Maryam Mahmoudzadeh, Rozita Komeyli Fonood. Effect of beta glucan and carboxymethyl cellulose on lipid oxidation and fatty acid composition of pre-cooked shrimp nugget during storage. *Food Science and Technology*. (2015) 1e6.

Maryam Enteshari & Abdorreza Mohammadi & **Kooshan Nayebzadeh** & Ebrahim Azadniya. Optimization of Headspace Single-Drop Microextraction Coupled with Gas Chromatography–Mass Spectrometry for Determining Volatile Oxidation Compounds in Mayonnaise by Response Surface Methodology. *Food Analytical Methods*. (2014), Volume 7, Issue 2, 438-448.

Reyhaneh Shahin, **Kooshan Nayebzadeh**, Leila Alizadeh, Abdorreza Mohammadi. Antioxidant effect of tocopherol and TBHQ on oil oxidation over the shelf life of mayonnaise. Iranian Journal of Nutrition Science & Food Technology.(2016), Volume 8, Issue 4, 227-236.

Mehrdad Haghshenas, Hedayat Hosseini, **Kooshan Nayebzadeh**, Amin Mosavi Khanghah, Behnoosh Shabkoohi Kakesh and Rozita Komeily Fonood. Production of Prebiotic Functional Shrimp Nuggets Using ß-Glucan andReduction of Oil Absorption by Carboxymethyl Cellulose: Impacts onSensory and Physical Properties. *J Aquac Res Development*. 2014, 5:4.

Leila Alizadeh, **Kooshan Nayebzadeh**, Reyhaneh Shahin.Antioxidant effect of Rosemary and Ferulago extracts and synthetic TBHQ on oil oxidation during deep-frying. Iranian Journal of Nutrition Science & Food Technology.(2014), Volume 8, Issue 4, 135-143.

Sasan Delfan-Hosseini, **Kooshan Nayebzadeh**, Leila Mirmoghtadaie, Maryam Kavosi, Seyede Marzieh Hosseini. Effect of extraction process on composition, oxidative stability and rheological properties of purslane seed oil. *Food Chemistry*.222(2017) 61-66.

Arash Tondhoosh, **Kooshan Nayebzadeh**, Mohammad A. Mohamadifar, Aziz Homayouni-Rad and Hamid Hosseinoghli. Industrial Application of Different Heat Treatments and Cream Fat Contents for Improving the Spreadability of Butter. *Recent Patents on Food, Nutrition & Agriculture*, 2016, 8, 107-115.

Conference Presentations

Presenters are underlined

<u>Nayebzadeh Kooshan</u>.2016. Physicochemical characteristics of beverage emulsions containing crocetin as a functional ingredient of saffron. Reinventing the Food & Beverage Industry, May 09-10, New Orleans, USA. (oral presentation)

Maryam Enteshari, **Kooshan Nayebzadeh** and Sergio I. Martínez-Monteagudo.2017. Oxidative stability of Iranian ghee (butter oil) and soybean oil: A comparative study.USA(poster presentation)

<u>Jianshe Chen</u>, Eric Dickinson, Thomas Moschakis, **Kooshan Nayebzadeh**.Surface Texture: a feature in 2-Dimensions or 3-Dimensions. 7th WCCE Glascow.2006.

Book Chapters

Eric Dickinson, Jianshe Chen, Thomas Moschakis, **Kooshan Nayebzadeh**. Food colloids: self-assembly and material science. Surface topography of heat-set whey protein gels:Effect of added salt and xanthan gum. Chapter 33.RSC Publishing.2008.

Students Mentored Graduate:

2011-2013	Maryam Enteshari,2013: Determination of oil oxidation in mayonnaise during storage at two different temperatures by physic-chemical methods and headspace-liquid phase microextraction .M.Sc.Thesis.			
2011-2013	Elahe Omidbakhsh,2013:Interaction of some of hydrocolloids on some of physicochemical, rheological and sensory properties of ketchup. M.Sc.Thesis.			
2012-2014	Reyhaneh Shahin,2014: Comparison of synthetic and natural antioxidants effects on mayonnaise oxidation during storage. M.Sc.Thesis.			
2012-2014	Leila Alizadeh,2014: Comparison of antioxidative effects of rosemary extract with synthetic antioxidant on oxidation during deep- frying. M.Sc.Thesis.			
2013-2014	Sanaz Kazemipour,2015:Study of physicochemical, microbial & sensory properties of probiotic milk chocolate using microcapsulated Lactobacillus plantarum cells. M.Sc.Thesis.			
2013-2015	Mozhdeh Setaei Mokhtari,2015:Evaluation effect of some parameters on lime juice Key variety delay bitterness during storage. M.Sc.Thesis.			
2013-2015	Behnoosh Shabkoohi,2015: Effect of temperature, homogenization pressure and salt combination on the emulsifying, and microbial properties of pasteurized egg yolk. M.Sc.Thesis.			

- 2013-2015 Arash Tondhoosh,2015:Effect of different heat treatment and fat content of pasteurized cream on physicochemical characteristics of butter in continuous churning M.Sc.Thesis
- 2014-2016 Leila Mehrandish,2016: Investigation effect of magnesium silicate and parameter of bleaching process on oxidative stability index of sunflower oil M.Sc.Thesis.
- 2014-2016 Farzaneh Khoshnavaz,2016: The effect of oil on the oxidative and sensory properties of mayonnaise. M.Sc.Thesis.
- 2014-2016 Mahdiyeh Derakhshani,2016:Effect of gellan (G),carboxymethylcellulose(CMC) and Sodium Alginate (SA) gums on the stability of suspended pulp particles in the orange nectar. M.Sc.Thesis.
- 2014-2016 Mohsen Atefi,2016: Study of Physicochemical properties of emulsion containing crocetin and saffron essential oils encapsulated Ph.D.Thesis.
- 2015-present Nooshin Amiri, MSc Student: The simultaneous effect of chitosan as preservative, antioxidant and stabilizer in mayonnaise. Ms student.
- 2015-present Leila Alizadeh, PhD candidate:Optimization of tocopherol and phytosterol recovery from edible oil deodorizer distillate by ion-exchange resin and determination of functional characteristics of extracted components.

Research Interest

- Edible Oil Processing and Formulation
- Oil Modification Processes
- Application of Edible Oils
- Food Preservation Methods
- Advanced Food Processing
- Food Rheology
- Food Emulsions
- Food Texture