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**Updated at:2017/14/01;1395/10/25**

**Educational Background**

PhD in Food Safety and Hygiene- Urmia University, Urmia, Iran

Doctor in Veterinary Medicine- Ferdowsi University of Mashhad, Mashhad, Iran

**Research Interests**

Food chemistry- oxidative changes

Food modeling against pathogenic bacteria

**Publications**

1. Davood Soleimani, Mohsen Nematy, **Mohammad Hashemi**, Sayyed Saeid Khayyatzadeh. 2016. Effects of Ramadan fasting on cardiovascular risk factors: A narrative review. Journal of Fasting and Health 4(4): 141-145.
2. Ali Ehsani, **Mohammad Hashemi**, Asma Afshari. 2016. Antioxidant activity of Echinophora

platyloba DC essential oil: a comparative study on four different methods. The Iranian Journal of Veterinary Science and Technology, 8(1). In press. DOI:10.22067/veterinary.v8i1.50620.

3. **Hashemi, M.**, Ehsani, A., Aminzare, M., & Hassanzadazar, H. 2016. Antioxidant and Antifungal Activities of Essential Oils of *Origanum vulgare* ssp. *gracile* Flowers and Leaves from Iran. Journal of food quality and hazards control, 3(4), 134-140.
4. Shahbazi, Y., **Hashemi, M.**, Afshari, A., & Karami, N. 2016. A survey of antibiotic residues in commercial eggs in Kermanshah, Iran. The Iranian Journal of Veterinary Science and Technology, 7(2), 57-62.
5. Arabi, S. M., Nematy, M., **Hashemi, M.**, & Safarian, M. 2016. Effects of Ramadan fasting on plasma free fatty acids in patients with non-alcoholic fatty liver disease. Journal of Fasting and Health, 4(3), 97-101.
6. Raeisi M., **Hashemi M.**, Aminzare M., Sadeghi M., Jahani T., Keshavarzi H., Jebelli Javan A., Mirahahidi M., Tepe B. 2016. Comparative evaluation of phytochemical, antioxidant, and antibacterial properties from the essential oils of four commonly consuming plants in Iran. Journal of Food Quality and Hazards Control. 3(3): 107-113.
7. Raeisi, M., Tabaraei, A., **Hashemi, M.**, & Behnampour, N. 2016. Effect of sodium alginate coating incorporated with nisin, *Cinnamomum zeylanicum*, and rosemary essential oils on microbial quality of chicken meat and fate of *Listeria monocytogenes* during refrigeration. International Journal of Food Microbiology 238: 139–145
8. **M. Hashemi**, A. Afshari, M. Aminzare, M. Raeisi, T. Sahranavard. 2016. Evaluation of pH and Common Salt Content in Bread Samples Produced in Mashhad, Iran. Journal of Food Quality and Hazards Control 3(2): 73-75.
9. Ehsani, A., **Hashemi, M.**, Naghibi, S. S., Mohammadi, S., & Khalili Sadaghiani, S. 2016. Properties of *Bunium Persicum* Essential Oil and its Application in Iranian White Cheese against *Listeria Monocytogenes* and *Escherichia Coli O157: H7*. Journal of Food Safety 36(4): 563–570
10. Ali Ehsani, Ebrahim Khalil Banihabib, **Mohammad Hashemi**, Morteza Saravani, Erfan Yarahmadi. 2016. Evaluation of Various Properties of Symbiotic Yoghurt of Buffalo Milk. Journal of Food Processing and Preservation. 40: 1466–1473
11. **Mohammad Hashemi**, Ali Ehsani, Nima Hosseini Jazani, javad Aliakbarlu, Sajad Shokri, Seyedeh Samane Naghibi. 2016. Effect of *Echinophora platyloba DC* essential oil and lycopene on the stability of pasteurized cream obtained from cow milk. Veterinary Research Forum. 7(2): 139-148.
12. **Hashemi, M.**, Ehsani, A., Afshari, A., Aminzare, M., & Raeisi, M. 2016. Chemical Composition and Antifungal Effect of *Echinophora platyloba* Essential Oil against *Aspergillus flavus*, *Penicillium expansum* and *Fusarium graminearum*. Journal of Chemical

Health Risks. 6 (2): 91-97.

13. Aminzare M, **Hashemi M**, Hassanzad Azar H, Hejazi J. 2016. The Use of Herbal Extracts and Essential Oils as a Potential Antimicrobial in Meat and Meat Products: A review. *Journal of Human, Environment and Health Promotion*. 1(2): 61-73.
14. Sadeghi A, **Hashemi M**, Jamali-Behnam F, Zohani A, Esmaily H, Dehghan A. 2015. Determination of Chromium, Lead and Cadmium Levels in Edible Organs of Marketed Chickens in Mashhad, Iran. *Journal of Food Quality and Hazards Control*. 2 (4): 134-138.
15. A. Ehsani, **M. Hashemi**. 2015. Determination of Antibacterial Drug Residues in Commercial Eggs Distributed in Urmia, Iran. *Journal of Food Quality and Hazards Control* 2: 61-65
16. Tajik, Hossein; Aminzare, Majid; **Hashemi, Mohammad**; Raeisi, Mojtaba; Hassanzad Azar, Hassan; Mounesi Raad, Torkan; Naghili, Hossein. 2015. Effect of *zataria multiflora boiss* essential oil and grape seed extract on the shelf life of raw buffalo patty and fate of inoculated *listeria monocytogenes*. *Journal of Food Processing and Preservation*. 39: 3005–3013.
17. Ali Ehsani, Mohammad Sedigh Jasour, **Mohammad Hashemi**, Laleh Mehryar & Mina. Khodayari. 2014. *Zataria multiflora Boiss* essential oil and sodium acetate: how they affect shelf life of vacuum-packaged trout burgers. *International Journal of Food Science and Technology*. 49: 1055–1062.
18. Abdollah Jamshidi, Saeid Khanzadi, Majid Azizi, Mohammad Azizzadeh, **Mohammad Hashemi**. 2014. Modeling the growth of *Staphylococcus aureus* as affected by black zira (*Bunium persicum*) essential oil, temperature, pH and inoculum levels. *Veterinary Research Forum*; 5 (2) 107 – 114.
19. H. Tajik, M. Raeisi, S.M. Razavi Rohani<sup>1</sup>, **M. Hashemi**, M. Amin Zare, H. Naghili , D. Rozbani, D. Ben Ammar. 2014. Effect of Monolaurin Alone and in Combination with EDTA on Viability of *Escherichia coli* and *Staphylococcus aureus* in Culture Media and Iranian White Cheese. *Journal of Food Quality and Hazards Control* 1: 108-112
20. M. Moradi, A. Hassani, A. Ehsani, **M. Hashemi**, M. Raeisi, S.S. Naghibi. 2014. Phytochemical and Antibacterial Properties of *Origanum vulgare ssp. gracile* Growing Wild in Kurdistan Province of Iran. *Journal of Food Quality and Hazards Control* 1: 120-124
21. M. Amin Zare, S.M. Razavi Rohani, M. Raeisi, SH. Javadi Hosseini, **M. Hashemi**. 2014. Antibacterial Effects of Monolaurin, Sorbic Acid and Potassium Sorbate on *Staphylococcus aureus* and *Escherichia coli*. *Journal of Food Quality and Hazards Control*; 1: 52-55
22. **Mohammad Hashemi**, Ali Ehsani, Nima Hosseini Jazani, Javad Ali Akbarlu and Razzaq Mahmouidi. 2013. Chemical Composition and In vitro Antibacterial Activity of Essential Oil and Methanol Extract of *Echinophora platyloba* D.C against some of Food-borne pathogenic bacteria. *Veterinary Research Forum*. 4 (2): 123 – 127.

23. Mahmoud Bahmani, Ebrahimkhalil Banihabib, Koorosh Saki, Behzad Kazemi-Ghoshji, Amir Heydari and **Mohammad Hashemi**. 2012. Anti-Leech and Disinfection Activities of Methanolic Extracts of Walnut (*Juglans regida* L.) and Oleander (*Nerium oleander* L.) on *Limnatis nilotica*. World Journal of Zoology. 7 (3): 267-272.
24. Raeisi, M., Tajik, H., Razavi roohani, S.M., Maham, M., Moradi, M., Hajimohammadi, B., Naghili, H., **Hashemi, M.**, Mehdizadeh, t. 2012. Essential oil of tarragon (*Artemisia dracuncululus*) antibacterial activity on *Staphylococcus aureus* and *Escherichia coli* in culture media and Iranian white cheese. Iranian Journal of Microbiology. 4(1): 30-33.
25. **Hashemi, M.**, Kanzadi, S., Jamshidi, A., 2010. Identification of *Escherichia coli* O157:H7 isolated from cattle carcasses in Mashhad abattoir by Multiplex PCR. World Applied Science Journal. 10(6): 703-708.

### Local -language papers

1. **Hashemi, M.**, Amin Zare, M, Naghibi, S, Raeisi, M, Hasanzad Azar, H. Chemical Composition, Antibacterial and Antioxidant Effect of *Salvia Officinalis*, *Mentha Piperita* and *Mentha Longifolia*. mljgoums. 2015; 9 (3) :47-55
2. Alizade O, Ehsani A, Hashemi M, Mohamadi S, Khalili S. Comparative antibacterial effects of essential oils of *Melissa officinalis* and *Deracocephalum moldavica* L. against some pathogenic bacteria in food in vitro . J Shahrekord Univ Med Sci. 2015; 17 (4) :80-87
3. Ehsani, A., Mahmoudi, R., Hashemi, M., & Raeisi, M. (2014). Identification of *Lactobacillus* species isolated from traditional cheeses of west Azerbaijan. *Iranian Journal of Medical Microbiology*, 8(1), 38-43.
4. Ehsani, A., Mahmoudi, R., Raiisi, M., Hashemi, M., & Jaafarpoor, J. (2013). Inhibitory effects of Monolorin and EDTA on *Escherichia coli* and *Salmonella typhimurium* Lorek (traditional food from whey). *Iranian Journal of Medical Microbiology*, 6(4), 7-15 .
5. Ehsani, A., Mahmoudi, R., Feyzollahbeygi, O., Raisi, M., Hashemi, M., Rezayan, A., & Zare, P. (2013). Study on the health effects of monolaurin in lorek (traditional food from whey).

### Presentations

1. **Hashemi, M.**, Sadeghi, A., Saghi, M., Dankob, M., Rahnama Bargard, Z. Evaluation of heavy metals in BOVANS and NATIVE type of laying birds eggs. 1<sup>st</sup> international and 19<sup>nd</sup> national conference of environmental health and sustainable development (EHSDG, 2016), 22-24 October, 2016, Tehran, Iran.
2. Naghili, H., Tajik, H., Raiesi, M., **Hashemi, M.**, Moradi, M., Aliakbarlu, J., Mehdizadeh, T, and Shahbazi, Y.,-Investigation of antibacterial activity of monocaprin against *Listeria*

monocytogenes and E.coli O157:H7-2<sup>nd</sup> International Congress of Food Hygiene April 30-May 1,2011 Tehran-Iran.

3. Jamshidi, A., Khanzadi, S., **Hashemi, m.**, -Isolation of *Escherichia coli* O157:H7 from cattle carcasses in mashhad abattoir using multyplex PCR assay-1<sup>st</sup> International Congress of Food Hygiene April 25-26,2009 Tehran-Iran.
4. Khanzadi, S., Jamshidi, A., **Hashemi, M.**, - Modeling of *Staphylococcus aureus* Growth affecting by Bonium Persicum essential oil,temperature,pH value,and inoculum load.- 1<sup>st</sup> International Congress of Food Hygiene April 25-26, 2009 Tehran-Iran.
5. Banihassan, Marjan., Jamshidi, Abdollah., Hedaiati, Mahdi., **Hashemi, Mohammad.**, - Evaluation comparative effect of some selected antibiotics and essential oils on *Salmonella Spp* isolated from eggs yolk.- 1<sup>st</sup> International Congress of Food Hygiene April 25-26,2009 Tehran-Iran.
6. Bayat, Mansour., Mohsenzade, Mohammad., **Hashemi, Mohammad.**, Amani, Fatemeh., - Prevalence and antibiotic susceptibility of coagulase negative staphylococci(CNS) isolated from minced beef in Mashhad.- 1<sup>st</sup> International Congress of Food Hygiene April 25-26,2009 Tehran-Iran.
7. banihassan, M., Yavari, S., Mohsenzadeh, M., **Hashemi, M.**, - Antimicrobial resistance of *Stahylococcus Spp* isolated from Bulk tank raw milk in mashhad.- 1<sup>st</sup> International Congress of Food Hygiene April 25-26,2009 Tehran-Iran.
8. Mohsenzadeh, Mohammad., **Hashemi, Mohammad.**, Bayat, Mansour., Shariatifar, Mehdi., - Antimicrobial resistance of *E-coli* O157:H7 isolated from minced beef marketed in Mashhad.- 1<sup>st</sup> International Congress of Food Hygiene April 25-26,2009 Tehran-Iran.
9. Khanzadi, Saeed., Jamshidi, Abdollah., **Hashemi, Mohammad.**, -Susceptibility of *E-coli* O157:H7 isolated from cattle carcasses at Mashhad slaughter house to some antibiotics and essential oils.- The Second Iranian Congress Of Clinical Microbiology 7-9 October,2008 Shiraz-Iran.