

Curriculum Vitae

Mehdi Tabarsa

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Personal Information:

Date and Place of Birth: Apr. 24, 1985, Gorgan, Iran

Nationality: Iran

Languages Farsi (Fluent), English (Fluent)

Education:

<u>Date</u>	<u>Degree</u>	<u>Institution</u>
2009–2014	Ph. D.	Gangneung National University , Department of Applied Marine Biotechnology and Engineering (South Korea).
2007–2009	M. Sc.	Tarbiat Modares University , Department of Fisheries (I. R. Iran)
2003–2007	B. Sc.	Guilan University , Department of Fisheries (I. R. Iran).

Employment History:

- 2013-2014: Adjunct Professor, Department of Seafood Processing, Tarbiat Modares University, I. R. Iran
- 2014 Present: Assistant Professor, Department of Seafood Processing, Tarbiat Modares University, I. R. Iran
- 2014-Present: Adjunct Professor, Department of Food Science, Khazar Institute of Higher Education, I. R. Iran

Research Interests:

- Structural characterizations of novel natural polysaccharides
- Biological functions of natural polysaccharides
- Structure-bioactivity relationship of bioactive polysaccharides
- Characterization of polysaccharides from marine and land raw materials and wastes
- Development of functional foods enriched with health-promoting polysaccharides

Awards:

- Recipient of a graduate fellowship provided by the Brain Korea (BK21) program sponsored by the Ministry of Education and Human Resources Development, South Korea (2009-2013).
- Twice winner of Brain Korea (BK21) graduate school scientific competition award of Gangneung National University (2011 and 2010).
- Recipient of young scientist research award (Dr. Kazemi Ashtiani Award). Iran's National Elites Foundation. (2017).
- Research visiting travel award. Iran's Biotechnology Development Council (2018).

Publications:

1. Ghasem Taghizadeh Andevvari, Masoud Rezaei, **Mehdi Tabarsa**, Turid Rustad. (2018). Extraction, partial purification and characterization of alkaline protease from Rainbow Trout (*Oncorhynchus Mykiss*) viscera. *Aquaculture. Accepted.*
2. Saman Bahramzadeh, **Mehdi Tabarsa**, SangGuan You. (2018). Purification, structural analysis and mechanism of murine macrophage cell activation by sulfated polysaccharides from *Cystoseira indica*. *Carbohydrate Polymers. Accepted.*
3. Mehdi Alboofetileh, Masoud Rezaei, **Mehdi Tabarsa**. (2018). Enzyme-assisted extraction of *Nizamuddinina zarnardinii* for the recovery of sulfated polysaccharides with anticancer and immune-enhancing activities. *Journal of Applied Phycology. Accepted.*
4. JeYoung Lee, Changsheng Li, Utoomporn Surayot, Khamphone Yelithao, SangMin Lee, WooJung Park, **Mehdi Tabarsa**, SangGuan You. (2018). Molecular structures, chemical properties and biological activities of polysaccharide from *Smilax glabra* rhizome. *International Journal of Biological Macromolecules, 120, 1726-1733.*
5. Zeynab Rostami, **Mehdi Tabarsa**, SangGuan You, Masoud Rezaei. (2018). Structural characterization and RAW264.7 murine macrophage stimulating activity of a fucose-containing polysaccharide from *Colpomenia peregrina*. *Journal of Food Science and Technology, 55, 4650-4660.*
6. Marzieh Ramzani Shemami, **Mehdi Tabarsa**, SangGuan You. (2018). Isolation and chemical characterization of a novel immunostimulating galactofucan from freshwater *Azolla filiculoides*. *International Journal of Biological Macromolecules, 118, 2082-2091.*
7. Hassan Ahmadi Gavlighi, **Mehdi Tabarsa**, SangGuan You, Utoomporn Surayot, Maryam Ghaderi-Ghahfarokhi. (2018). Extraction, characterization and immunomodulatory property of pectic polysaccharide from pomegranate peels: Enzymatic vs conventional approach. *International Journal of Biological Macromolecules, 116, 698-706.*
8. Mohammad Salehi, **Mehdi Tabarsa**, Milad Amraie, Mohammad Anvari, Masoud Rezaei, Brennan M. Smith. (2018). Characterization of rheological and structural properties of a gum from Balangu seeds. *International Journal of Biological Macromolecules, 117, 294-300.*
9. Niloofar Jokar Borazjani, **Mehdi Tabarsa**, SangGuan You, Masoud Rezaei. (2018).

- Purification, molecular properties, structural characterization, and immunomodulatory activities of water soluble polysaccharides from *Sargassum angustifolium*. *International Journal of Biological Macromolecules*, 109, 793-802.
10. Mohammad Anvari, **Mehdi Tabarsa**, Helen S. Joyner (Melito). (2018). Large amplitude oscillatory shear behavior and tribological properties of gum extracted from *Alyssum homolocarpum* seed. *Food Hydrocolloids*, 77, 669-676.
 11. Hakimeh Jannat Alipour, Masoud Rezaei, Bahareh Shabanpour, **Mehdi Tabarsa**. (2018). Effects of sulfated polysaccharides from green alga *Ulva intestinalis* on physicochemical properties and microstructure of silver carp surimi. *Food Hydrocolloids*, 74, 87-96.
 12. **Mehdi Tabarsa**, SangGuan You, Elham Hashem Dabaghian, Utoomporn Surayot. (2018). Water-soluble polysaccharides from *Ulva intestinalis*: Molecular properties, structural elucidation and immunomodulatory activities. *Journal of Food and Drug Analysis*, 26, 599-608.
 13. Niloofar Jokar Borazjani, **Mehdi Tabarsa**, SangGuan You, Masoud Rezaei. (2017). Improved immunomodulatory and antioxidant properties of unrefined fucoidans from *Sargassum angustifolium* by hydrolysis. *Journal of Food Science and Technology*, 54, 4016-4025.
 14. Zeynab Rostami, **Mehdi Tabarsa**, SangGuan You, Masoud Rezaei. (2017). Relationship between molecular weights and biological properties of alginates extracted by different methods from *Colpomenia peregrina*. *Process Biochemistry*, 58, 289-297.
 15. Niloofar Jokar Borazjani, **Mehdi Tabarsa**, SangGuan You, Masoud Rezaei. (2017). Effects of extraction methods on molecular characteristics, antioxidant properties and immunomodulation of alginates from *Sargassum angustifolium*. *International Journal of Biological Macromolecules*, 101, 703-717.
 16. Niloofar Jokar Borazjani, **Mehdi Tabarsa**, Masoud Rezaei. (2017). Ethanol extraction and solvent partitioning of antioxidant compounds from brown seaweed *Sargassum angustifolium*. *Fisheries Science and Technology*, 6, 1-16.
 17. **Mehdi Tabarsa**, Mohammad Anvari, Helen S. Joyner (Melito), Shabnam Behnam, Alireza Tabarsa. (2017). Rheological behavior and antioxidant activity of a highly acidic gum from *Althaea officinalis* flower. *Food Hydrocolloids*, 69, 432-439.
 18. Elham Hashem Dabbaqian, Masoud Rezaei, **Mehdi Tabarsa**. (2017). Ethanolic extraction and solvent-solvent partitioning of antioxidant compounds from green seaweed *Enteromorpha intestinalis*. *Journal of Fisheries*, 69, 385-396.
 19. Fateme Rahimi, **Mehdi Tabarsa**, Masoud Rezaei. (2017). Effect of different extraction conditions on yield and antioxidant activity of polysaccharides extracted from green algae *Enteromorpha intestinalis*. *Fisheries Science and Technology*, 5, 85-98.
 20. Zeynab Rostami, **Mehdi Tabarsa**, Masoud Rezaei. (2016). Chemical structure and biological effects of sulfated polysaccharides extracted from green seaweeds. *Fisheries Science and Technology*, 5, 97-116.
 21. Fatemeh Rahimi, **Mehdi Tabarsa**, Masoud Rezaei. (2016). Ulvan from green algae *Ulva*

- intestinalis*: optimization of ultrasound-assisted extraction and antioxidant activity. *Journal of Applied Phycology* 28: 2979-2990.
22. Mohammad Anvari, **Mehdi Tabarsa**, Rongan Cao, SangGuan You, Helen S. Joyner, Shabnam Behnam, Masoud Rezaei. (2016). Compositional characterization and rheological properties of an anionic gum from *Alyssum homolocarpum* seeds. *Food Hydrocolloids* 52: 766-773.
 23. **Mehdi Tabarsa**, Il-Shik Shin, Ju Hun Lee, Utoomporn Surayot, Woojung Park, SangGuan You. (2015). An immune-enhancing water-soluble α -glucan from *Chlorella vulgaris* and structural characteristics. *Food Science and Biotechnology* 24: 1933-1941.
 24. **Mehdi Tabarsa**, Geun-Mook Park, Il-Shik Shin, Jin-Kyung Kim, SangGuan You. (2015). Structure-Activity Relationships of Sulfated Glycoproteins from *Codium fragile* on Nitric Oxide Releasing Capacity from RAW264.7 Cells. *Marine Biotechnology* 17: 266-276.
 25. Utoomporn Surayot, Jianguo Wang, Phisit Seesuriyachan, Ampin Kuntiya, **Mehdi Tabarsa**, YoungJin Lee, Jin-Kyung Kim, WooJung Park, SangGuan You. (2014). Exopolysaccharides from lactic acid bacteria: Structural analysis, molecular weight effect on immunomodulation. *International Journal of Biological Macromolecules* 68: 233-240.
 26. **Mehdi Tabarsa**, Supatra Karnjanapratum, MyoungLae Cho, Jin-Kyung Kim, SangGuan You. (2013). Molecular characteristics and biological activities of anionic macromolecules from *Codium fragile*. *International Journal of biological Macromolecules* 59: 1-12.
 27. **Mehdi Tabarsa**, Sung-Joon Lee, SangGuan You. (2012). Structural analysis of immunostimulating sulfated polysaccharides from *Ulva pertusa*. *Carbohydrate Research* 361: 141-147.
 28. **Mehdi Tabarsa**, Jung H. Han, Chul Young Kim, SangGuan You. (2012). Molecular characteristics and biological activities of water soluble sulfated polysaccharides from *Ulva pertusa*. *Journal of Medicinal Food* 15(2): 135-144.
 29. Supatra Karnjanapratum, **Mehdi Tabarsa**, MyoungLae Cho, SangGuan You. (2012). Characterization and immunomodulatory activities of sulfated polysaccharides from *Capsosiphon fulvescens*. *International Journal of Biological Macromolecules* 51: 720-729.
 30. HongHui Bao, **Mehdi Tabarsa**, Won-Seok Choi, SangGuan You. (2012). Molecular characteristics of water-unextractable polysaccharides from *Hypsizigus marmoreus* and their in vitro anticancer and immunomodulatory activities. *Molecules* 17: 207-226.
 31. **Mehdi Tabarsa**, Masoud Rezaei, Zohreh Ramezanpour, J. Robert Waaland. (2012). Chemical compositions of marine algae *Gracilaria salicornia* and *Ulva lactuca* as potential food source. *Journal of the Science of Food and Agriculture* 92: 2500-2506.
 32. **Mehdi Tabarsa**, Masoud Rezaei, Zohreh Ramezanpour, J. Robbert Waaland, Reza Rabiei. (2012). Fatty acids, amino acids, mineral contents and proximate composition of some brown seaweeds. *Journal of Phycology* 48: 285-292.
 33. Ali Bani, **Mehdi Tabarsa**, Bahram Falahatkar, Ashkan Banan. (2009). Effects of different photoperiods on growth, stress and haematological parameters in juvenile great sturgeon

Proceedings:

1. Hesam Borzuyi, **Mehdi Tabarsa**. Application of polysaccharides from *Eicchornia crassipes* as free radical scavengers. 2nd National Conference on the Agricultural Science and Technology, Tehran, Iran. March 11, 2018.
2. **Mehdi Tabarsa**, SangGuan You. Molecular characteristics and bioactivities of Ulvan polysaccharides from green seaweed *Ulva intestinalis*, 2017 KOSFOST International Symposium and Annual Meeting, South Korea. June 21-23, 2017.
3. Marzieh Ramzani Shemami, **Mehdi Tabarsa**. Ferrous reducing capacity of water soluble polysaccharides from *Azolla filiculoides*. International Conference on Agriculture Environment and Natural Resources in the Third Millennium, Rasht, Iran. May 22, 2017.
4. Zeynab Rostami, **Mehdi Tabarsa**, Masoud Rezaei. Antioxidant properties of alginates isolated from brown seaweed *Colpomenia peregrine*. 4th International Conference on New Ideas in Agriculture, Environment and Tourism, Ardebil, Iran. December 19, 2016.
5. Marzieh Ramzani Shemami, **Mehdi Tabarsa**. Free radical scavenging activities of water soluble polysaccharides from *Azolla filiculoides*. 1st International and 24th National Congress of Iran's Food Science. Tehran, Iran. October 18-20, 2016.
6. Hakimeh Jannat Alipour, Masoud Rezaei, **Mehdi Tabarsa**. Marine algae and potent bioactive metabolites. 1st International and 24th National Congress of Iran's Food Science. Tehran, Iran. October 18-20, 2016.
7. Zeynab Rostami, **Mehdi Tabarsa**, Masoud Rezaei, Enzymatic extraction and stepwise precipitations of polysaccharides from *Colpomenia peregrina*. 2016 KOSFOST International Symposium and Annual Meeting; Food Science for Daily Living. Daegu, South Korea. August 17-19, 2016.
8. **Mehdi Tabarsa**, Masoud Rezaei. Correlation between structure of glycoprotein extracted from *Codium fragile* with its capacity to activate macrophage cells. 2nd National Conference on Improvement of Production, Distribution and Consumption Chains in Food Science, Sari, Iran. February 18-19, 2015.
9. **Mehdi Tabarsa**., SangGuan You. Characterization and immunomodulatory activities of sulfated polysaccharides from green seaweed *Capsosiphon fulvescens*. International Conference and Exhibition on Nutraceuticals and Functional Foods. Sapporo, Japan. November 14-17, 2011.
10. **Mehdi Tabarsa**., SangGuan You. Structural characterization of sulfated polysaccharides from *Ulva pertus*. The 3rd Korea-Russia Bio Joint Forum on the Natural Products Industrialization and Application. Gangneung Science Industry Foundation, Korea. October 05-06, 2011.
11. **Mehdi Tabarsa**., SangGuan You. Immunomodulatory activity of water-soluble polysaccharides derived from *Chlorella vulgaris* and their Molecular characteristics.

International Symposium and Annual Meeting on Green and Personalized Foods. Hotel Inter-Burgo Daegu, Daegu, Korea. October 27-29, 2010.

12. **Mehdi Tabarsa.**, SangGuan You. Molecular characterization and biological activities of water soluble sulfated polysaccharides from *Ulva pertusa*. Bioconvergence for Food Innovation 'Annual Meeting of Korean Society of Food Science and Technology'. Songdo Convensia, Incheon, Korea. June 16-18, 2010.

Research Projects:

- Isolation, purification, structural characterization and antioxidant properties of alginate and bioactive fucoidans from brown algae *Sargassum angustifolium*. Iran National Science Foundation. 2017. Project No. 95818095 (Finished).
- Isolation, purification and structural properties of anionic fucoidan from brown seaweed *Nizamuddinina zanardinii*. Iran's National Elites Foundation. 2017. (Finished).
- Functional sausage containing anticancer and immunostimulant anionic polymers of Ulvan. Gosht Iran Co. 2017. (Ongoing).

Advising activities:

a) Master's Students:

- 2013-2014: F. Rahimi., Marine Food Science, Tarbiat Modares University (TMU)
- 2013-2014: E. Hashem Dabbaqian., Marine Food Science, TMU
- 2014-2015: Z. Rostami., Marine Food Science, TMU
- 2014-2015: N. Jokar Borazjani., Marine Food Science, TMU
- 2014-2015: M. Salehi., Food Science, Khazar Institute of Higher Education (KIHE)
- 2014-2015: M. Amraei, Food Science, KIHE
- 2015-2016: M. Ramzani, Marine Food Science, TMU
- 2015-2016: H. Borzuii, Marine Food Science, TMU
- 2016-2017: Z. Garusian, Food Science, KIHE
- 2016-2017: A. Arshi, Food Science, KIHE
- 2017-Present: S. Bahramzadeh, Marine Food Science, TMU
- 2017-Present: M. Alavi, Marine Food Science, TMU

b) Doctoral Students

- 2017-Present: S. Khajavi, Marine Food Science, TMU

Teaching Activities:

- 2014-Present: Biotechnology of Marine Food Products, Department of Seafood Processing, TMU
- 2014-Present: Food Waste Management and By-products, Department of Food Science, KIHE
- 2017-Present: Marine Bioactive Compounds, Department of Seafood Processing, TMU

- 2017-Present: Marine Food Biochemistry, Department of Seafood Processing, TMU
- 2017-Present: Food Processing and Impact on Nutrition, Department of Seafood Processing, TMU

Journal Review Activities:

- Journal of Food Biochemistry
- Journal of the Science of Food and Agriculture
- International Journal of Biological Macromolecules
- Carbohydrate Polymers
- Food Hydrocolloids
- Molecules
- Food Bioscience