

Curriculum Vitae

Mehdi Tabarsa

Associate Professor
Department of Seafood Processing,
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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 Marine Food Science (South Korea).
2007–2009	M. Sc.	Tarbiat Modares University (TMU) , Department of Fisheries (Iran)
2003–2007	B. Sc.	Guilan University , Department of Fisheries (Iran).

Employment History:

- 2013-2014: Adjunct Prof., Dept. of Seafood Processing, Tarbiat Modares University, Iran.
- 2014 Present: Assistant Prof., Dept. of Seafood Processing, Tarbiat Modares University, Iran.
- 2014-2018: Adjunct Prof., Dept. of Food Sci., Khazar Institute of Higher Education, Iran.
- 2019-Present: Adjunct Prof., College of Food Sci., Heilongjiang Bayi Agricultural University, China.
- 2019-Present: Adjunct Researcher, The East Coast Research Institute of Life Science, Gangneung National University, South Korea.
- 2019-Present: Adjunct Prof., Dept. of Bioactive Compounds, Faculty of Interdisciplinary Science and Technology, Tarbiat Modares University, Iran.
- 2019-Present: Principal Investigator, Research group of Cellular and Molecular Studies of Natural/Herbal Medicines, Tarbiat Modares University, Iran.
- 2020-Present: Principal Investigator, Institute of Natural Products and Medicinal Plants, Tarbiat Modares University, Iran.

Professional Services:

- 2015-2019: Managing Editor, Journal of Fisheries Science and Technology, Tarbiat Modares University.
- 2016-2017: Member, Research Board of Faculty of Natural Resources and Marine Sciences, Tarbiat Modares University.
- 2018-2019: Member, Research Board of Faculty of Natural Resources and Marine Sciences, Tarbiat Modares University.
- 2019-Present: Founder and Manager of Public Outreach Program, Faculty of Natural Resources and Marine Sciences, Tarbiat Modares University.
- 2021-Present: Member, Teaching Board of Faculty of Natural Resources and Marine Sciences, Tarbiat Modares University.
- 2021-Present: Head of Department of Seafood Processing, Faculty of Natural Resources and Marine Sciences, Tarbiat Modares University.

Research Interests:

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

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).

Research Projects:

1. 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).
2. Isolation, purification and structural properties of anionic fucoidan from brown seaweed *Nizamuddiniana zanardinii*. Iran's National Elites Foundation. 2017 (Finished).
3. Functional sausage containing anticancer and immunostimulant anionic polymers of Ulvan. Gosht Iran Co. 2017 (Ongoing).

4. Recovery of protein, chitosan and chitooligosaccharides from banana shrimp (*Fenneropenaeus Merquiensis*) wastes by use of enzymatic-chemical process and characterization of their bioactivity and antibacterial. Iran National Science Foundation. 2019. Project No. 95838459 (Finished).
5. Extraction of bioactive compounds from land and marine plant species containing heteroglycans to produce human health-promoting food products. Iran's Biotechnology Development Council. 2019 (Finished).

Publications:

1. Amirhossein Valipoor, Abdolmohammad Abedian Kenari, **Mehdi Tabarsa**. (2022). Effect of water-soluble polysaccharides extracted from microalga (*Spirulina platensis*) on growth performance, body composition and immune response of Rainbow Trout (*Oncorhynchus mykiss*). *Journal of Fisheries Science and Technology*, 11, 3, 199-217.
2. Shahab Naghdi, Masoud Rezaei, **Mehdi Tabarsa**, Mehdi Abdollahi. (2023). Fish protein hydrolysate from sulfated polysaccharides extraction residue of tuna processing by-products with bioactive and functional properties. *Global Challenges*. 2023, 2200214.
3. Shahab Naghdi, Masoud Rezaei, **Mehdi Tabarsa**, Mehdi Abdollahi. (2023). Parallel extraction of sulfated polysaccharides and protein hydrolysate from Skipjack Tuna head and their bioactive and functional properties. *Food and Bioprocess Technology*. (In Press).
4. Alboofetileh Mehdi, Rezaei Masoud, Hamzeh Ali, **Tabarsa Mehdi**, Giancarlo Cravotto. (2022). Cellular antioxidant and emulsifying activities of fucoidan extracted from *Nizamuddinia zanardinii* using different green extraction methods. *Journal of Food Processing and Preservation* : e17238.
5. Ahmadi Gavlighi, Hassan, **Tabarsa Mehdi**, Maryam Ghaderi Ghahfarokhi. (2021). Antioxidant, α -amylase and α -glucosidase inhibition properties of polysaccharide from pomegranate peel via enzymatic and acidic approach. *Food Science and Technology* 18.117, 145-153.
6. Alavi Maryam, **Tabarsa Mehdi**, Hassan Ahmadi Gavlighi. (2021). Antioxidant activity, α -amylase and α -glucosidase inhibition properties of sulfated-polysaccharides purified from freshwater plant *Myriophyllum spicatum* L. *Food Science and Technology* 18.116, 81-90.
7. Jalili Safaryan Maryam, Ahmadi Hassan, Barzegar Mohsen, **Tabarsa Mehdi**, Chibuikwe Udenigwe. (2022). Evaluation of inhibitory effect of alpha-amylase and alpha-glucosidase by interaction phenolic compounds, soluble fiber, and protein extracted from green lentils. *Journal of Food Science and Technology (Iran)* 19, 122, 35-45.
8. **Tabarsa, Mehdi**, Jafari Alika, You SangGuan, Cao RongAn (2022). Immunostimulatory effects of a polysaccharide from *Pimpinella anisum* seeds on RAW264. 7 and NK-92 cells. *International Journal of Biological Macromolecules*. In Press.
9. RongAn Cao, RuiXue Ji, **Mehdi Tabarsa**, Subramanian Palanisamy, Natchanok Talapphet, Khamphone Yelithao, ChangYuan Wang, SangGuan You. (2020). Extraction, structural elucidation and immunostimulating properties of water-soluble polysaccharides

- from wheat bran. *Journal of Food Biochemistry*, 44(9), e13364.
10. Ganesan Sathiyaraj, Baskaran Babu, Raj Mithun, Mandal Anup, Shanmugam Kandan, Subramanian Palanisamy, **Tabarsa Mehdi**, You Sang Guan, Marimuthu Prabhu Narayanasamy. (2022). Vibriosis Incidents in Marine Finfish Farms: Prevalence, Diagnosis of Pathogens using 16S rRNA, Histopathology, and In Vitro Antibacterial Evaluation Against Isolated *Vibrio* spp using Antibiotics and Probiotics. *Thalassas: An International Journal of Marine Sciences* 38, 1, 385-399.
 11. Cao Rong-An, Ji RuiXue, **Tabarsa Mehdi**, Zhang JianQiang, Meng LingQi, Zhang ChengTai, Zhang JiaMiao, et al. (2021). Purification, characterization and immunostimulatory effects of polysaccharides from *Anemarrhena asphodeloides* rhizomes. *International Journal of Biological Macromolecules* 172, 550-559.
 12. Mirzaie Sara, **Tabarsa Mahdi**, Safavi Maliheh. (2021). Effects of extracted polysaccharides from a *Chlorella vulgaris* biomass on expression of interferon- γ and interleukin-2 in chicken peripheral blood mononuclear cells. *Journal of Applied Phycology* 33.1, 409-418.
 13. Taghizadeh Andevvari Ghasem, Rezaei Masoud, **Tabarsa Mehdi**, Turid Rustad. (2021). Carotenoprotein from by-product of banana shrimp (*Penaeus merguensis*) extracted using protease from viscera of rainbow trout: antiradical and angiotensin I-converting enzyme inhibitory activity. *Iranian Journal of Fisheries Sciences* 20, 5, 1510-1525.
 14. Avudaiyan Muthamil Selvi, Subramanian Palanisamy, S. Jeyanthi, Manoharan Vinosh, Sonaimuthu Mohandoss, **Mehdi Tabarsa**, SangGuan You, Ethiraj Kannapiran, Narayanasamy Marimuthu Prabhu. (2020). Synthesis of *Tragia involucrate* mediated plantinum nanoparticles for comprehensive therapeutic applications: Antioxidant, antibacterial and mitochondria-associated apoptosis in HeLa cells. *Process Biochemistry*. *Accepted*.
 15. Baskaran Babu, Subramanian Palanisamy, Manoharan Vinosh, Ravichandran Anjali, Ponnuchamy Kumar, Boomi Pandi, **Mehdi Tabarsa**, SangGuan You, Narayanasamy Marimuthu Prabhu. (2020). Bioengineered gold nanoparticles from marine seaweed *Acanthophora spicifera* for pharmaceutical uses: Antioxidant, antibacterial and anticancer activities. *Bioprocess and Biosystems Engineering*, 43(12), 2231-2242.
 16. Manoharan Vinosh, Subramanian Palanisamy, Ravichandran Anjali, Changsheng Li, Khamphone Yelithao, Tangapandi Marudhupandi, **Mehdi Tabarsa**, SangGuan You, Narayanasamy Marimuthu Prabhu. (2020). Sulfated galactan from *Halymenia dilatata* enhance the antioxidant properties and prevents *Aeromonas hydrophila* in tilapia fish: *in vitro* and *in vivo* study. *International Journal of Biological Macromolecules*, 158, 569-579.
 17. **Mehdi Tabarsa**, Elham Hashem Dabaghian, SangGuan You, Khamphone Yelithao, Subramanian Palanisamy, Narayanasamy Marimuthu Prabhu, Changsheng Li. (2020). Inducing inflammatory response in RAW264.7 and NK-92 cells by an arabinogalactan

isolated from *Ferula gummosa* via NF- κ B and MAPK signaling pathways. *Carbohydrate Polymers*, 241, 116358.

18. **Mehdi Tabarsa**, Elham Hashem Dabaghian, SangGuan You, Khamphone Yelithao, RongAn Cao, Masoud Rezaei, Mehdi Alboofetileh, Seraj Bita. The activation of NF- κ B and MAPKs signaling pathways of RAW264.7 murine macrophages and natural killer cells by fucoidan from *Nizamuddinina zanardinii*. *International Journal of Biological Macromolecules*, 148, 56-67.
19. **Mehdi Tabarsa**, SangGuan You, Khamphone Yelithao, Subramanian Palanisamy, Narayanasamy Marimuthu Prabhu, Ma Nan. (2019). Isolation, structural elucidation and immuno-stimulatory properties of polysaccharides from *Cuminum cyminum*. *Carbohydrate Polymers*, 230, 115636.
20. Maryam Alavi, **Mehdi Tabarsa**^a, SangGuan You, Hassan Ahmadi Gavlighi. (2019). Structural characteristics, molecular properties and immunostimulatory effects of sulfated polysaccharide from freshwater *Myriophyllum spicatum* L. *International Journal of Biological Macromolecules*, 153, 951-961.
21. Manikandakrishnan Muthushanmugam, Palanisamy Subramanian,..., **Mehdi Tabarsa**, SangGuan You, Prabhu Narayanasamy Marimuthu. (2019). Facile green route synthesis of gold nanoparticles using *Caulerpa racemosa* for biomedical applications. *Journal of Drug Delivery Science and Technology*, 54, 101345.
22. Seyed Vahid Safavi, Abdolmohamad Abedian Kenari, **Mehdi Tabarsa**, Mohammad Esmaeili. (2019). Effect of sulfated polysaccharides extracted from marine macroalgae (*Ulva intestinalis* and *Gracilariopsis persica*) on growth performance, fatty acid profile, and immune response of rainbow trout (*Oncorhynchus mykiss*). *Journal of Applied Phycology*, 31, 4021-4035.
23. Rajasekar Periyannan, Palanisamy Subramanian,..., **Mehdi Tabarsa**, SangGuan You, Prabhu Narayanasamy Marimuthu. (2019). Isolation and structural characterization of sulfated polysaccharides from *Spirulina platensis* and its bioactive potential: *In vitro* antioxidant, antibacterial activity and Zebra fish growth and reproductive performance. *International Journal of Biological Macromolecules*, 141, 809-821.
24. Niloofar Aghajanpoor, Aria Babakhani, **Mehdi Tabarsa**. (2019). Optimization of the extraction of pigments of Persian Gulf brown alga *Sargassum angustifolium* using response surface method (RSM). *Journal of Fisheries*, 71, 390-400.
25. Surayot Utoomporn, Khamphone Yelithao, **Mehdi Tabarsa**, Dae-Hee Lee, Subramanian Palanisamy, Narayanasamy Marimuthu Prabhu, JuHun Lee, SangGuan You. (2019). Structural characterization of a polysaccharide from *Certaria islandica* and its derivatives affecting immune cells. *Process Biochemistry*, 83, 214-221.
26. **Mehdi Tabarsa**, SangGuan You, Mehdi Abedi, Negar Ahmadian, Changsheng Li, Natchanok Talapphet. (2019). The activation of RAW264.7 murine macrophage and natural killer cells by glucomannogalactan polysaccharides from *Tornabea scutellifera*.

- Carbohydrate Polymers*, 219, 268-377.
27. Hakimeh Jannat-Alipour, Masoud Rezaei, Bahareh Shabanpour, **Mehdi Tabarsa**, and Fereidoon Rafipour. (2019). Addition of seaweed powder and sulphated polysaccharide on shelf_life extension of functional fish surimi restructured product. *Journal of Food Science and Technology*, 56, 3777-3789.
 28. Saman Bahramzadeh, **Mehdi Tabarsa**, SangGuan You, Khamphone Yelithao, Vladimir Klochkov, Rakhmatullin Ilfat. (2019). An arabinogalactan isolated from *Boswellia carterii*: Purification, structural elucidation and macrophage stimulation via NF- κ B and MAPK pathways. *Journal of Functional Foods*, 52, 450-458.
 29. Saman Bahramzadeh, **Mehdi Tabarsa**, SangGuan You. (2019). Purification, structural analysis and mechanism of murine macrophage cell activation by sulfated polysaccharides from *Cystoseira indica*. *Carbohydrate Polymers*, 205, 261-270.
 30. Mehdi Alboofetileh, Masoud Rezaei, **Mehdi Tabarsa**, SangGuan You (2019). Bioactivities of *Nizamuddinina zanardinii* sulfated polysaccharides extracted by enzyme, ultrasound and enzyme-ultrasound methods. *Journal of Food Science and Technology*, 56, 1212-1220.
 31. Hakimeh Jannat Alipour, Masoud Rezaei, Bahareh Shabanpour, **Mehdi Tabarsa**. (2019). Edible green seaweed, *Ulva intestinalis* as an ingredient in surimi-based product: Chemical composition and physicochemical properties. *Journal of Applied Phycology*, 31, 2529-2539.
 32. Mehdi Alboofetileh, Masoud Rezaei, **Mehdi Tabarsa**, SangGuan You, Francesco Mariatti, Giancarlo Cravotto. (2019). Subcritical water extraction as an efficient technique to isolate biologically-active fucoidans from *Nizamuddinina zanardinii*. *International Journal of Biological Macromolecules*, 128, 244-253.
 33. Ghasem Taghizadeh Andevvari, Masoud Rezaei, **Mehdi Tabarsa**, Turid Rustad. (2019). Extraction, partial purification and characterization of alkaline protease from Rainbow Trout (*Oncorhynchus Mykiss*) viscera. *Aquaculture*, 500, 458-463.
 34. Mehdi Alboofetileh, Masoud Rezaei, **Mehdi Tabarsa**, Massimo Rittà, Manuela Donalisio, Francesco Mariatti, ... & Giancarlo Cravotto, (2019). Effect of different non-conventional extraction methods on the antibacterial and antiviral activity of fucoidans extracted from *Nizamuddinina zanardinii*. *International Journal of Biological Macromolecules*, 124, 131-137.
 35. Mehdi Alboofetileh, Masoud Rezaei, **Mehdi Tabarsa**. (2019). Enzyme-assisted extraction of *Nizamuddinina zarnardinii* for the recovery of sulfated polysaccharides with anticancer and immune-enhancing activities. *Journal of Applied Phycology*, 31, 1391-1402.
 36. 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.

37. Mehdi Alboofetileh, Masoud Rezaei, **Mehdi Tabarsa**, SangGuan You. (2018). Ultrasound-assisted extraction of sulfated polysaccharide from *Nizamuddinia zanardinii*: Process optimization, structural characterization, and biological properties. *Journal of Food Process Engineering*, 34, e12797.
38. Zeynab Rostami, **Mehdi Tabarsa**, Masoud Rezaei. (2018). Antioxidant activities of by-products of polysaccharide extraction from brown seaweed *Colpomenia peregrine*. *Journal of Food Processing and Preservation*, 10, 151-158.
39. 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.
40. 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.
41. 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.
42. 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.
43. 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.
44. 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.
45. 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.
46. **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.
47. 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.
48. 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.
 49. 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.
 50. 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.
 51. **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.
 52. 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.
 53. 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.
 54. 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.
 55. 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.
 56. 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.
 57. **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.
 58. **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.
 59. 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.
60. **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.
 61. **Mehdi Tabarsa**, Sung-Joon Lee, SangGuan You. (2012). Structural analysis of immunostimulating sulfated polysaccharides from *Ulva pertusa*. *Carbohydrate Research* 361: 141-147.
 62. **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.
 63. 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.
 64. 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.
 65. **Mehdi Tabarsa**, Masoud Rezaei, Zohreh Ramezanzpour, 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.
 66. **Mehdi Tabarsa**, Masoud Rezaei, Zohreh Ramezanzpour, 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.
 67. Ali Bani, **Mehdi Tabarsa**, Bahram Falahatkar, Ashkan Banan. (2009). Effects of different photoperiods on growth, stress and haematological parameters in juvenile great sturgeon *Huso huso*. *Aquaculture research* 40: 1899-1907.

Presentations:

a) Conference Presentations:

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 pertusa*. 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.

b) Invited Lectures:

1. **Mehdi Tabarsa**. 2019. Polysaccharides: Human health boosters. College of Food Science, Heilongjiang Bayi Agricultural University, China. Jun, 2019.
2. **Mehdi Tabarsa**. 2019. Functional properties of non-starch polysaccharides from chickpea (*Cicer arietinum*). 2019 International Miscellaneous Beans Industry

Technology Symposium, Daqing, China. May, 2019.

Supervising Activities:

a) Master's Students:

- 2013-2014: F. Rahimi., Marine Food Science, Tarbiat Modares University (TMU) (Principal Supervisor)
- 2013-2014: E. Hashem Dabbaqian., Marine Food Science, TMU (Principal Supervisor)
- 2014-2015: Z. Rostami., Marine Food Science, TMU (Principal Supervisor)
- 2014-2015: N. Jokar Borazjani., Marine Food Science, TMU (Principal Supervisor) (Principal Supervisor)
- 2014-2015: M. Salehi., Food Science, Khazar Institute of Higher Education (KIHE) (Principal Supervisor)
- 2014-2015: M. Amraei, Food Science, KIHE (Principal Supervisor)
- 2015-2016: M. Ramzani, Marine Food Science, TMU (Principal Supervisor)
- 2015-2016: H. Borzuii, Marine Food Science, TMU (Principal Supervisor)
- 2016-2017: Z. Garusian, Food Science, KIHE (Principal Supervisor)
- 2016-2017: A. Arshi, Food Science, KIHE (Principal Supervisor)
- 2017-2019: S. Bahramzadeh, Marine Food Science, TMU (Principal Supervisor)
- 2017-2019: M. Alavi, Marine Food Science, TMU (Principal Supervisor)
- 2017-2019: S. Khosravi, Marine Food Science, KIHE (Principal Supervisor)
- 2018-Present: J. Darem, Marine Food Science, KIHE (Principal Supervisor)
- 2018-Present: F. Noormand, Marine Food Science, TMU (Principal Supervisor)

b) Doctoral Students

- 2014-2018: H. Jannat-Alipour, Marine Food Science, TMU (Co-Supervisor)
- 2015-2019: M. Alboofetileh, Marine Food Science, TMU (Co-Supervisor)
- 2015-2019: H. Teimuri, Marine Food Science, TMU (Co-Supervisor)
- 2015-2019: G. Taghizadeh Andevvari, Marine Food Science, TMU (Co-Supervisor)
- 2017-Present: S. Khajavi, Marine Food Science, TMU (Principal Supervisor)
- 2018-Present: H. Borzuii, Marine Food Science, TMU (Principal Supervisor)

Teaching Activities:

1. 2014-Present: Biotechnology of Marine Food Products, Department of Seafood Processing, TMU
2. 2014-Present: Food Waste Management and By-products, Department of Food Science, KIHE
3. 2017-Present: Marine Bioactive Compounds, Department of Seafood Processing, TMU
4. 2017-Present: Marine Food Biochemistry, Department of Seafood Processing, TMU

5. 2017-Present: Food Processing and Impact on Nutrition, Department of Seafood Processing, TMU

Journal Review Activities:

1. Carbohydrate Polymers
2. Food Bioscience
3. Food Hydrocolloids
4. International Journal of Biological Macromolecules
5. Journal of Food Biochemistry
6. Journal of Functional Foods
7. Journal of the Science of Food and Agriculture
8. Molecules
9. Food & Function