

**Allegato alla domanda di partecipazione
Curriculum formativo, didattico, scientifico e professionale del candidato**

Dichiarazione sostitutiva di certificazioni

(Art. 46, D.P.R. 28 dicembre 2000 n. 445)

Dichiarazione sostitutiva dell'atto di notorietà

(da sottoscrivere davanti all'impiegato addetto o da presentare o spedire con la fotocopia di un documento di identità)

(Art. 47, D.P.R. 28 dicembre 2000 n. 445)

Estremi del bando di selezione	N° 180/2026 del 25/02/2026
Informazioni aggiornate al	09.03.2026
Nome e Cognome	Seyedeh Shaghayegh Alavi
Data di nascita	

Si raccomanda di indicare con precisione tutti gli elementi valutabili ai sensi del bando di selezione (aggiungere o togliere righe secondo necessità).

Esperienza professionale

Periodo	Ente	Principali attività e responsabilità
08.2025-10.2025	University of Cagliari, Department of Life and Environmental Sciences	<p>Role: Research Associate involved in the design, development, and characterization of lipid nanovectors for the oral delivery of biological macromolecules</p> <p>Research Topic: Design of lipid nanovectors for the intestinal delivery of biological macromolecules</p> <ul style="list-style-type: none"> • Conduct systematic literature analysis on the stability of biologically active macromolecules in gastrointestinal conditions. • Design lipid-based nanocarrier systems for oral delivery. • Develop and optimize nanoparticle formulations using Design of Experiment (DoE) methodologies. • Characterize nanoparticle systems using physicochemical techniques including dynamic light scattering. • Evaluate encapsulation efficiency, release behavior, and stability in simulated gastrointestinal environments.
03.2025-07.2025	University of Cagliari, Department of Life and Environmental Sciences	<p>Role: Visiting Researcher (MAECI Study in Italy, 2024 Awardee)</p> <p>Research topic: Milk-Derived Exosomes for the Intestinal Delivery of Antioxidants Molecules</p> <p>Core Activities:</p> <ul style="list-style-type: none"> • Running design of experiments for the optimization of nanoparticles extraction/production processes • Performing physico-chemical analysis of nanocarriers (DLS, Electrophoretic Light Scattering) • Performing in vitro release test (dialysis membrane) • Data analysis, report production, manuscript preparation
04.2021-02.2025	University of Tehran, Department of Food Science and Technology	<p>Role: Research Associate</p> <p>Research topics: encapsulation and targeted delivery of</p>

		<p>bioactive compounds, particularly polyphenols</p> <p>Core activities:</p> <p>As a Research Associate for five years in a lab focused on the encapsulation and targeted delivery of bioactive compounds, particularly polyphenols, I contributed to multiple research initiatives spanning formulation science, functional food development, and nutraceutical delivery systems. My core responsibilities included:</p> <ul style="list-style-type: none"> • Designing and conducting experiments related to the encapsulation and controlled release of bioactives using advanced techniques (UV-vis Spectroscopy, ultrasonication system, rotary evaporators, HPLC, microplate reader). • Use of DoE softwares (Minitab, Design Expert), for the optimization of biomass extraction processes. • Supervising and mentoring Master's students, guiding them in experimental design, data interpretation, and thesis development. • Writing and contributing to competitive grant applications and collaborative research proposals. • Optimization and modeling of formulation parameters and delivery systems to enhance bioavailability and stability of bioactives. • Managing daily lab operations, including inventory control, safety protocols, and equipment maintenance. • Performing data collection and analysis using tools such as ultrasonication systems, rotary evaporators, and UV-Vis spectrophotometry. • Assisting in manuscript preparation and maintaining compliance with project timelines and ethical standards.
<p>04.2020-03.2021</p>	<p>Sugarcane and By-Products Development Company, research and Training Center, Ahvaz, Iran</p>	<p>Role: Quality control analyst in the Food Chemistry Laboratory</p> <p>Core activities:</p> <ul style="list-style-type: none"> • Measuring pH, electrical conductivity, and total soluble solids in sugarcane juice and derived products. • Determining titratable acidity to assess organic acid content and product stability. • Determining reducing and total sugar content in sugarcane juice and processed products using classical titration methods in accordance with Iran National Standards (INSO) or ICUMSA methods. • Assessing ash content and moisture levels in solid sugarcane by-products through gravimetric methods. • Preparation and standardization of chemical reagents and calibration curves for quantitative assays. <p>Role: Quality control analyst in the Food Microbiology Laboratory</p> <p>Core activities:</p>

		<ul style="list-style-type: none"> • Working in a certified ISO/IEC 17025-accredited laboratory, ensuring all microbiological analyses met international standards for testing reliability, accuracy, and traceability. • Collaborating with the Institute of Standards and Industrial Research of Iran (ISIRI); regularly received official food and beverage samples (e.g., sugarcane juice, molasses, vinegar) for third-party microbiological evaluation and certification. • Performing Total Plate Count (TPC) to assess the microbial load in accordance with ISIRI and Codex protocols. • Conducting Yeast and Mold Enumeration using acidified PDA or SDA for spoilage monitoring and fermentation control. • Analyzing Coliforms and E. coli using Most Probable Number (MPN) and selective agar methods in compliance with ISIRI guidelines for hygienic indicators. • Participation in proficiency testing and internal validation protocols as required by ISO/IEC 17025 accreditation to ensure consistent laboratory performance. • Maintaining meticulous records, ensuring equipment calibration, and following strict SOPs to uphold audit readiness and result credibility.
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Istruzione, formazione (es. titoli di studio, certificazioni professionali/linguistiche/informatiche)

Data	Titolo / Principali tematiche	Ente
05.02.2020	Ph.D. in Food Science- Biotechnology Thesis Title: Investigation of Punicalagins Encapsulation by Chitosan-Alginate Complexes and Proniosomal Systems	University of Tehran, Iran
01.2018-06.2019	Visiting Ph.D. student in the Department of Life and Environmental Sciences	University of Cagliari, Italy
22.09.2013	M.Sc./Food Science-Food Technology	Islamic Azad University, Science and Research branch, Tehran, Iran
19.02.2010	B.Sc./ Food Science	Khuzestan University of Agricultural and Natural Resources, Ahvaz, Iran
09.12.2016	MSRT (MCHE) English Language Test (74/100)	

Pubblicazioni

Taha SR, Fazlollahpour-Naghibi A, Zadeh MS, Bagheri K, Youshanlouei HR, Mosaddeghi-Heris R, Hejazian SS, Khalaji A, Alavi SS, Fattahi P, Mehrtabar S. The Hepatoprotective Effects of Ginsenoside from Ginseng: A Review of Molecular Mechanisms and Therapeutic Potentials. <i>Current Pharmaceutical Biotechnology</i> . 2025 Jan 1;26(7):957-71.
Davoodvandi A, Sadeghi S, Alavi SM, Alavi SS, Jafari A, Khan H, Aschner M, Mirzaei H, Sharifi M, Asemi Z. The therapeutic effects of berberine for gastrointestinal cancers. <i>Asia-Pacific Journal of Clinical Oncology</i> . 2024 Apr 1; 20(2):152-67.
Alavi SS, Razavi SH, Khodaiyan F, Cardia MC, Lai F, Valenti D, Pini E, Rosa A, Nieddu M, Fadda AM. Proniosomal Formulation Encapsulating Pomegranate Peel Extract for Nutraceutical Applications. <i>Journal of nanoscience and nanotechnology</i> . 2021 May 1;21(5):2907-16.
Kahkeshani N, Farzaei F, Fotouhi M, Alavi SS, Bahramsoltani R, Naseri R, Momtaz S, Abbasabadi Z, Rahimi R, Farzaei MH, Bishayee A. Pharmacological effects of gallic acid in health and diseases: A mechanistic review. <i>Iranian journal of basic medical sciences</i> . 2019 Mar 1;22(3):225-37.
Goudarzi G, Geravandi S, Idani E, Hosseini AS, Baneshi MM, Yari AR, Vosoughi M, Dobaradaran S, Shirali S, Bagherian Marzooni M, Ghomeishi A, Alavi N, Alavi SS, Mohammadi MJ. An evaluation of hospital admission respiratory disease attributed to sulfur dioxide ambient concentration in Ahvaz from 2011 through 2013. <i>Environmental science and pollution research international</i> . 2016 Nov 1;23(21):22001-7.

Zalaghi E, Geravandi S, Goudarzi GR, Shirbeigi E, Alavi SS, Mohammadi MJ. Evaluation of relative risk and attributed proportion due to exposure to Nitrogen dioxide in Ahwaz, Kermanshah, Iran (western half of Iran) during 2013. *Journal of Environmental Health Engineering*. 2015 Dec 10;3(1):20-8.

Zalaghi E, Geravandi S, NORIZADEH HM, Goudarzi G, Shirbeigi E, Alavi SS, Mohammadi MJ. Comparison between indices of exposure risk to Nitrogen dioxide and their impact on health of people in Southwest of Iran. *Journal of Torbat Heydariyeh University of Medical Sciences*. 2014 Oct 10;2(3):22-9.

Presentazioni poster a convegni

Schlich M, Pireddu R, Pitzanti G, Alavi SS, Lai F, Valenti D, Sinico C, Fadda AM. Proniosomes for the formulation of a supplement based on resveratrol. Poster presented at: XXXIII Congresso Internazionale L'aderenza alla Terapia e la Presa in Carico Del Paziente; September 2018; Naples, Campania, Italy.

Schlich M, Pireddu R, Pitzanti G, Alavi SS, Lai F, Valenti D, Sinico C, Fadda AM. Formulation of Stigmasterol in nanosuspensions: preparation and characterization. Poster presented at: XXXIII Congresso Internazionale L'aderenza alla Terapia e la Presa in Carico Del Paziente; September 2018; Naples, Campania, Italy.

Alavi SS, Alavi SMA, Eraghi F. An overview of the use of probiotic and prebiotic supplements in children with autism spectrum disorders. Poster presented at: 7th Internal Students Research Committee; October 2015; Ahvaz, Khuzestan, Iran.

Fazlara A, Alavi SS, Ekhtelat M. Antibacterial activity of *Zataria multiflora* Bioss essential oil against *E. coli* O157:H7 in commercial beef soup. Poster presented at: National Congress on Medicinal Plants; May 2015; Ahvaz, Khuzestan, Iran.

Alavi SS, Davoodi S. A review on prebiotics. Poster presented at: 3rd National Food Security Conference; February 2014; Savad Kooh, Mazandaran, Iran.

Davoodi S, Alavi SS. The innovative trend of functional foods. Poster presented at: 3rd National Food Security Conference; February 2014; Savad Kooh, Mazandaran, Iran.

Davoodi S, Alavi SS. The study of nano polymeric materials for food packaging and the impact on food safety. Poster presented at: The first National Conference on agricultural and food contaminants, health challenges, and solutions; February 2014; Ramin, Khuzestan, Iran.

Alavi SS, Kanani H. A survey on effects of probiotics & their use in different diseases. Poster presented at: 9th International Conference on Functional Food Components in Health and Diseases; August 2011; San Diego, CA, USA.

Altre attività scientifiche

- **Mentorship and Supervision**
Mentored and supervised several MSc students in research projects related to bioactive compound encapsulation and delivery systems (University of Tehran and University of Cagliari)
- **Journal Peer Review**
Served as a peer reviewer for academic journals entitled "Traditional and Integrative Medicine Journal", and "Iranian Journal of Biosystems Engineering"
- **Scientific Writing and Editing**
Assisted in the preparation, editing, and submission of scientific manuscripts for publication.
- Member of Scientific Committee in 7th Internal Students Research Committee. Ahvaz, Iran (2015)
- Member of Executive Committee 7th Internal Students Research Committee. Ahvaz, Iran (2015)
- Member of reviewing Committee 7th Internal Students Research Committee. Ahvaz, Iran (2015)
- Member of Phyto-Pharmacology Interest Group of USERN since 2016
- Member of Nanotechnology Interest Group of USERN since 2016
- Member of Agricultural and Natural Resources Engineering Organization of Iran since 2009

Ulteriori informazioni pertinenti

Luogo, data e firma

13.03.2026