



Personal information:

Name: Hesam Kasraei
Date of birth: 7 September 1979
Marital status: Single
Mobile: 09126606280
National: Iranian
Living Place: Karaj city-Iran
Email: Hesam_kasraie@yahoo.com
Language: English (fluency)

Education:

- BSc in agronomy and plant breeding, Azad University of broujerd
- Knowledge in genetics and plant breeding and molecular markers
- Course in diseases treatment with medicinal plants, Jihad University
- Course in hydroponics, agriculture college of Tehran
- Course in vertical farming of saffron by aeroponic system, Agricultural engineering association
- Course international business, Iranian export promotion center
- Course in customs laws for exporting and importing of commodities
- Ample experience in MS office programmes

Research experience:

- project working in vertical farming of saffron by aeroponic system and plant culture in fogponic system under LED lightening
- Food production by vertical farming in aeroponic system and research in field of SAP polymer and zeolite for water and nutrient retention in soil and hydroponic system
- Designing nutrient mist bioreactor with capacities of 10 liters to 1000 liters in collaboration with Latvia bioreactor manufacturer for production of rootlets in a short period of time
- Improvement of micropropagation of *Alstroemeria* and research in field of double Phase culture system for growing microcuttings, Wageningen University and Research, Netherlands (with Dr. Geert-Jan de Klerk and Paweena Punitusapon MSc)
- Acclimatizing and rooting of micro cuttings (potato, Rose, Apple) by aeroponic technology at Iran institute of biotechnology
- Growth of leafy greens and plant propagation in aeroponic and hydroponic systems

Patent and publication:

- **Registered Patent** on *Commercial growth of vegetable in aeroponic system*

Following articles are under publishing in collaboration with NIE Singapore

- Article:** *Review article on Application of nutrient mist bioreactor in plant biotechnology*
- Article:** *Review article on Ginsenoside production by hairy root culture of ginseng in bioreactor technology*
- Article:** *Vegetative and micropropagation: Different approaches in mangrove regeneration (chapter of mangrove-flora and fauna book)*

Cultural and social experience:

- Member of Iran agriculture engineering association
- Member of Iran innovators association

Work experience:

Title: Agriculture engineer
Employer: Jarfa pajooan pars in Iran
Duration: at present time

Title: *Agronomist (improvement of vegetable seedling quality)*
Employer: Martin Grima Ltd, .St. Paul bay, Malta Island
Duration: one year (05/2015-05/2016)

Title: *Research project in organic nutrient solution for hydroponic and soil*
Employer: Igrowsystem Company in UK
Duration: 6 month: (03/2014-09/2014)

Title: *Project working in NFT system installation and strawberry production at Seribubio Company*
Employer: Seribubio Company, Frazer hill, Malaysia
Duration: one month (08/2012-09/2012)

Title: *Volunteer job as agricultural engineer in eco Learning Park*
Employer: ROLE foundation organization-Nusa Dua-Bali
Duration: one month (04/2012-05/2012)

Title: *Research on Natural sweeteners in food industry, vertical farming, aeroponic system design for plant propagation*
Employer: Avin international institute of science and technology-Iran
Duration: 3 years (03/2009-3/2012)

Title: *Assistant grower in tomato hydroponic greenhouse (Drip irrigation method)*
Employer: Tomato Hydroponic greenhouse-Iran
Duration: 6 months (09/2008-03/2009)

Title: *Improvement of micro propagation of Alstroemeria*
Employer: Dr.geert Jan de klerk in plant breeding institute of wageningen-Netherlands
Duration: 5 months (02/2008-07/2008)

Title: *Research experience in field of Hydroponic and Aeroponic systems design*
Employer: Avin International institute of Science and technology-Iran
Duration: 38 months (8/2003-10/2006)

Title: *Business correspondence for importing conveyor belt commodity*
Employer: Shahin Company-Iran
Duration: 5month (2/2003-7/2003)