



Personal Information

Family Name: Borna
First Name: Fatemeh
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Education

۲۰۱۰ – to ۲۰۱۶: **PhD** Candidate in Physiology and Breeding of Medicinal & Aromatic Plants at the Department of Horticulture, Faculty of Agriculture, Tehran University, Tehran, Iran.
Title of thesis: Study of drought tolerance in some populations of *Leonurus cardiaca* which expecting to end up to August ۲۰۱۵.

۲۰۰۳ – ۲۰۰۶: **MSc.** in Horticulture (Medicinal Plants), Faculty of Agriculture, Tarbiat Modares University, Tehran, Iran.
Title of thesis: The effect of sowing dates on growth, yield and essential oil content and composition of *Dracocephalum moldavica* L.

۱۹۹۸ – ۲۰۰۲: **BSc.** in Horticulture, Faculty of Agriculture, Shahed University, Tehran, Iran.
Main subjects: Pomology, Floriculture, Vegetable, Postharvest, Landscape, Biotechnology, Tissue Culture.

۱۹۹۳ – ۱۹۹۷: **High School Diploma**, Ershad Secondary School, Tehran, Iran.

Honor & awards

A Scholarship by the Ministry of Science, Research and Technology of The Islamic Republic of Iran, ۲۰۱۳, for the University of Sydney, Australia.

Top student in BSc at the University of Shahed

Top researcher in Shahriyar town.

Experience

۲۰۲۱ -up to now:

Assistant Professor working on Physiology and Breeding of Medicinal Plants at the Agricultural Sciences and Natural Resources University of Khuzestan in Iran.

۲۰۰۴ –۲۰۲۱:

Working as an expert at the Department of Environment in Tehran, Iran, my primary focus was on sustainable agriculture, as well as agricultural, industrial and urban waste management. I utilized IPM to decrease the use of chemicals and pesticides in agriculture.

۲۰۰۲ – ۲۰۰۳:

Collaboration in the Herbal Park Construction Project.
Project Executor: Shahed University.

Publications

Authors	Title	Publication	Volume	Number	Pages	Year
Rahmati, Mostafa; Borna, Fatemeh; Heidari, Mokhtar;	Determination of total phenols and flavonoids, antioxidant potential and antimicrobial activity of hydroalcoholic extract of <i>Withania somnifera</i> against fungi cause spoilage postharvest apple and strawberry fruits	Journal of food science and technology (Iran)	۲۰	۱۴۲	۱۷۱-۱۸۰	۲۰۲۳
Rahmati, Mostafa; Borna, Fatemeh; Heidari, Mokhtar;	Identification of chemical compounds of <i>Foeniculum vulgare</i> essential oil, antioxidant power, and its antifungal effect on postharvest grape spoilage molds	Journal of food science and technology (Iran)	۲۰	۱۴۳	۱۰۹-۱۶۸	۲۰۲۳
Borna, Fatemeh; Heidari, Mokhtar; Rafat Haghghi, Alieh Sadat;	Evaluation of Essential Oil Content and Composition of Moshgak (<i>Ducrosia anethifolia</i>) in Khor Region (Larestan, Fars Province)	Research in Plant Metabolites	۱	۲	۱۷-۲۰	۲۰۲۳
Fatemeh Borna, Mokhtar Heidari;	Evaluation of seed germination and seedling growth indices of <i>Drimia maritima</i> L. under salinity and temperature stress	Journal of Seed Research	۱۲	۴۲		۲۰۲۲
Borna, Fatemeh; Nazeri, Vahideh; Ghaziani, Fatemeh; Shokrpour, Majid;	Morphological and physiological response of some Iranian ecotypes of <i>Leonurus cardiaca</i> L. to drought stress	Journal of Horticulture and Postharvest Research	۴	۳	۲۸۹-۳۰۲	۲۰۲۱
Borna F., Nazeri V., Shokrpour M., Ghazian F.;	Study on response to water deficit stress in Motherwort (<i>Leonurus cardiaca</i>) ecotypes using stress tolerance indices, dry matter and essential oil content	Iranian Journal of Horticultural Science (IJHS)	۴۸	۴	۱۰۰۱-۱۰۱۲	۲۰۱۸
Borna, F; Luo, S; Ahmad, NM; Nazeri, V; Shokrpour, M; Trethowan, R;	Genetic diversity in populations of the medicinal plant <i>Leonurus cardiaca</i> L. revealed by inter-primer binding site (iPBS) markers	Genetic Resources and Crop Evolution	۶۴		۴۷۹-۴۹۲	۲۰۱۷
Shokrpour, M; Borna Nasrabadi, F; Nazeri, V; Ghaziani, F;	Morphological and phytochemical variations in <i>Leonurus cardiaca</i> L. under water deficit stress	I International Conference Horticultural Science Congress			۴۰۷-۴۶۲	۲۰۱۷
Borna, Fatemeh; Ahmad, Nabil M; Luo, Shuming; Trethowan, Richard;	Reproductive biology of a medicinally important plant <i>Leonurus cardiaca</i> (Lamiaceae)	Australian Journal of Botany	۶۴	۴	۳۴۲-۳۰۸	۲۰۱۶
Soorni, Aboozar; Nazeri, Vahideh; Fatahi, Mohammad Reza; Borna,	THE COMPARISON OF ANTIOXIDANT ACTIVITIES OF POPULATIONS OF MOTHERWORT COLLECTED FROM SIX REGIONS OF IRAN	۳ National Congress on Medicinal Plants				۲۰۱۴

Fatemeh;									۱۴, ۱۵ May ۲۰۱۴
Borna, Fatemeh; Borna, Tahereh;	INTRODUCING DRAGONHEAD AS A VEGETABLE IN FOOD BASKET								۳ National Congress on Medicinal Plants ۱۴, ۱۵ May ۲۰۱۴ ۲۰۱۴
Borna, Fatemeh; Nazeri, Vahideh; Shokrpour, Majid; Sorni, Aboozar;	EFFECT OF WATER STRESS ON MORPHOLOGICAL TRAITS OF MOTHERWORT (LEONURUS CARDIACA L.)								۳ National Congress on Medicinal Plants ۱۴, ۱۵ May ۲۰۱۴ ۲۰۱۴
Omidbaigi, R; Borna, F; Borna, T; Inotai, K;	Sowing dates affecting on the essential oil content of dragonhead (Dracocephalum moldavica L.) and its constituents								Journal of Essential Oil Bearing Plants ۱۲ ۵ ۵۸۰-۵۸۵ ۲۰۰۹
Borna, Fatemeh; Omidbaigi, R; Sefidkon, F;	The effect of sowing dates on growth, yield and essential oil content of Dracocephalum moldavica L.								Iranian journal of medicinal and aromatic plants research ۲۳ ۳ ۳۰۷-۳۱۴ ۲۰۰۷

workshops

- Q-RT-PCR. College of Agriculture and Natural Resources, Karaj, Iran. ۲۰۱۱.
- Antioxidant activity assay Methods. the Iranian Biological Resource Center, Tehran, Iran. ۲۰۱۳.
- Hazard Identification & Risk Assessment. Tehran, Iran. ۲۰۰۸.
- HPLC, GC and GC/MS techniques. the Iranian Biological Resource Center, Tehran, Iran. ۲۰۱۰.

Computer Skills

Microsoft Office, SPSS, SAS, Internet, Genstat, Minitab.

Languages

Persian (native), English

Interests

Swimming, Painting, Music, Reading, climbing

References

Prof. Richard Trethowan , PhD.

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