



## CURRICULUM VITAE

### **Mohsen Morowati, Ph.D.**

Date of birth: 11<sup>th</sup> June 1963

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### **Academic qualifications**

Ph.D.: (Physiology and Toxicology), University of Pune- India (1995)

M. Phil.: (Physiology and Toxicology), University of Pune- India (1989)

M.Sc.: (Comparative Physiology), University of Pune- India (1986)

B.Sc.: (Biology), University of Pune- India (1984)

### **Research interests**

- 1) Pesticides Residue analysis
- 2) Estimation of Maximum Residue levels (MRLs)

### **Selected research projects**

- 1) National Coordinator of the project entitled “Control and Management of pesticides and veterinary drugs residues on agricultural produces”, Project Code: TCP/IRA/0067) by FAO
- 2) Manager of the project entitled “Application of insects sex pheromones and appropriate pesticide application techniques in order to reduce the pesticide residues on rice in paddy field and the environment in Mazandaran and Guilan Provinces”, Project Code: POPs-IR05, a

collaborative project by CEP (Caspian Environment program) affiliated to UNDP

- 3) Manager of the project entitled "Iran – Persistent Organic Pollutants (POPs) Enabling Activity" Project No. 13118 by United Nations Development Program, UNDP
- 4) Analysis and assessment of the pesticides residue levels on the fruit from different regions in the country supplied to the central fruit and vegetable market of Tehran
- 5) Analysis and assessment of the pesticides residue levels on the vegetables from different regions in the country supplied to the central fruit and vegetable market of Tehran
- 6) Analysis and assessment of the pesticides residue levels on the fruit, vegetables and Cucurbitaceous crops from different regions in the country supplied to the central fruit and vegetable market of Tehran
- 7) Investigation on pesticide residue levels in green-house grown cucumber and their influencing factors in Hamadan province, Iran
- 8) Study & comparison of insecticides residues in conventional and IPM cultivation systems under greenhouse conditions in Tehran province
- 9) Investigation on the residue levels of four insecticides on greenhouse cucumber in Esfahan Province
- 10) Determination of residue levels of some pesticides used in greenhouse grown tomato in Hamadan province
- 11) Investigation and comparison of Malathion residue levels which is used against *Ommatissus lybicus* on date in Bam region.
- 12) Investigation on diazinon residue levels in rice grain in Mazandaran Province
- 13) To investigate the amount of various pesticides residue in apple and pear of two towns in Isfahan Province
- 14) Determination of Mancozeb and Diazinon residue levels and pre-harvest intervals in green house cucumbers and comparison of residue levels in samples from Jiroft farms
- 15) Investigation on the effect of edible coating and acetic acid vapor on reducing decay in sweet cherry cv. " Siahe Mashhad "
- 16) Determination of pesticide (Diazinon & Endosulfan) Residue in tomato & cucumber In Kohgiluyeh Va Boyerahmad Province (K.B)
- 17) Determination of Endosulfan and Darton residue levels in Pistachio
- 18) Determination of Mancozeb and Diazinon residue levels and pre-harvest intervals in green house cucumbers and comparison of residue levels in Iranshahr
- 19) Establishment of the national MRLs of highly used pesticides in Iran
- 20) Determination of Mancozeb residue levels in cucumber using Spectrometry method and its comparison with HPLC
- 21) Control of root knot nematode by using various nematicides on cucumber and determination of their residue levels on the fruit

## Selected publications

### Journals papers:

- 1- Morowati M. and Azadvar M. (2013). Determination of Imidacloprid residue levels and preharvest interval in greenhouse cucumber in Jiroft, Genetic Engineering and Biosafety Journal, No. 3, 110-120.
- 2- Morowati M., Abotorabi E., Tajbakhsh M.R., Valian A. and Parsa H. (2013). To determine the residue levels and withdrawal period of nematicide Phenamiphos (Nemacur 10G) on cucumber under greenhouse conditions, Journal of Science and Technology of Greenhouse Culture, No. 15, 89-101.
- 3- Morowati M., Ebrahimnejad M. and Tajbakhsh M. R. (2013). To determine the residue levels and withdrawal period of pesticide Imidacloprid on cucumber under greenhouse conditions in Varamin town. Journal of Science and Technology of Greenhouse Culture, No. 14, 109-116.
- 4- Morowati M. and Nematollahi, M. R. (2014). Investigation on the residue levels of four insecticides on greenhouse cucumber in Esfahan Province, Plant Pests and Diseases Journal, Accepted
- 5- Askari, M., Morowati M. and Imani S. (2014). Determination of Diazinon residue levels on Cherry, *Cerasus avium* supplied to Tehran central fruit and vegetable market. Genetic Engineering and Biosafety Journal, Accepted
- 6- Salahi Ardakani A., Morowati M. and Entesari M. (2012). Endosulfan and Diazinon residue levels on Tomato and Cucumber in Kohgiluyeh and Boyer-Ahmad Province. Genetic Engineering and Biosafety Journal, No.2, 113-120.
- 7- Dashtbozorgi Z., Ramezani M. K., Wagif Hussain S., Azar P. A. and Morowati M. (2012). "Validation of matrix match calibration for analysis of insecticide and fungicide residue in cucumber and tomato using QuEChERS sample preparation followed by gas Chromatography-Mass Spectrometry. International Journal of Chemistry No.5, 25-38.
- 8- Nekouei A., Hasani A. H., Farshchi P., Morowati M., Moatar F. and Karbassi A. (2012). Assessment and Investigation on the Fate of Organochlorine Pesticides in Water and Sediments of International Amir-kalaye Wetland in North of Iran. Bulletin of Environmental Contamination and Toxicology.10: 12-28.
- 9- Hossein L., Kiarostami B., Morowati M. and Tajbakhsh M. R. (2003). Multiresidue Determination of Diazinon and Ethion in Pistachio nuts by use of Matrix solid phase dispersion with a Lanthanum silicate co-column and gas chromatography. Acta Chromatographica. No. 67, 14-22.

### Conference papers:

- 1–Morowati, M., M. Azadvar, V. Mahdavi and M. R. Tajbakhsh, (2010), “Determination of mancozeb and Diazinon residue levels and Preharvest intervals in green house cucumbers and comparison of residue levels in samples from Jiroft farms”, Proceedings of the 19<sup>th</sup> Plant Protection Congress, Vol. 1, Pests, Iranian Research Institute of Plant Protection, 31<sup>st</sup> July- 3<sup>rd</sup> August 2010
- 2–Morowati, M., Abotorabi E. and Tajbakhsh M. R. (2008). “Determination of the residue levels and preharvest interval of Phenamiohos on the root knot nematode of cucumber”. Proceedings of the 18<sup>th</sup> Plant Protection Congress, Vol. 1, Pests, 24<sup>th</sup>- 27<sup>th</sup> August
- 3–Kiarostami, V., Hossin W., Morowati, M., Tajbakhsh M. R. and Rozbehani (2005). Multiresidue determination of Phosalone, Malathion and Diazinon in corn oil using solid phase extraction with Lanthanum silicate as a new sorbent. Proceedings of the 14<sup>th</sup> Iranian seminar on Analytical Chemistry, 30<sup>th</sup> and 31<sup>st</sup> August. Iran
- 4–Kiarostami, V., Hossin W., Morowati, M., Tajbakhsh M. R. and Rozbehani (2005). Matrix solid phase dispersion with Lanthanum silicate co-column for multiresidue determination of Diazinon and Ethion in pistachio nuts. Proceedings of the 14<sup>th</sup> Iranian seminar on Analytical Chemistry, 30<sup>th</sup> and 31<sup>st</sup> August. Iran
- 5–Salahi Ardakani A., Tajbakhsh M. R., Morowati M. and Sheikhi A. (2004). Endosulfan and Diazinon residue levels on Tomato and Cucumber in Kohgiloye and Boyer Ahmad Province. Proceedings of the 16<sup>th</sup> Plant Protection Congress, Vol. 1, Pests, 28<sup>th</sup> August- 1<sup>st</sup> September 2004
- 6–Mahdavi, V., F. Ganjeizadeh Rohani, M. Morowati and M. R. Tajbakhsh (2010), “Determination of Pesticides residue in green house produces and it’s comparison with standard limits”, Proceedings of the 19<sup>th</sup> Plant Protection Congress, Vol. 1, Pests, Iranian Research Institute of Plant Protection, 31<sup>st</sup> July- 3<sup>rd</sup> August 2010
- 7–Mahdavi, V., A. Eshaghai, M. K. Ramazani, M. R. Tajbakhsh and M. Morowati (2010), “Investigation on the possibility of the use of solid phase micro extraction method for the identification and quantification of Endosulfan in cucumber samples”, Proceedings of the 19<sup>th</sup> Plant Protection Congress, Vol. 1, Pests, Iranian Research Institute of Plant Protection, 31<sup>st</sup> July- 3<sup>rd</sup> August 2010

### Thesis supervised:

	Title	Major	Degree	Responsibility	University
<b>1</b>	Risk assessment of Organochlorine pesticides in Amir-kalaye wetland, Guilan Province	Environmental Science	Ph. D.	Advisor	Islamic Azad university, Science and Research Branch
<b>2</b>	Studies on application and optimization of new micro-extraction methods for insecticides and fungicides residues in cucumber and tomato under greenhouse conditions and their determination using GC/MS and LC/MS/MS	Analytical chemistry	Ph. D.	Advisor	Islamic Azad university, Science and Research Branch
<b>3</b>	Determination of Organophosphorus Pesticide residues on apple and investigation on their impact on human beings	Environmental Science	M. SC.	Advisor	Islamic Azad university, Science and Research Branch
<b>4</b>	Determination of residues and Pre-harvest period of Diazinon and Imidacloprid on greenhouse cucumber in Varamin town	Entomology	M. Sc.	Supervisor	Islamic Azad university, Science and Research Branch
<b>5</b>	Determination of Diazinon and Imidacloprid residue levels on Cherry collected from Tehran's central fruit and vegetable market	Entomology	M. Sc.	Supervisor	Islamic Azad university, Garmsar Unit

### Other achievements

- Establishment of the first Reference Pesticides residue analysis Laboratory in the country through the international project TCP/IRA/0067- FAO
- Establishment of the first sets of the National Maximum Residue Levels- MRLs on Cereals, Vegetables, Fruit, Pulses and Oil seeds