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Esraa Mustafa Ibrahim Ahmed
Teaching assistant
Faculty of Agriculture, Cairo University.
Gammaa st. giza, Zip Code: 12613
Email: ezraamustafa3@gmail.com
Mobile:010 228 368 12
Tel: 0236717355
Fax: 0235717355

Education:

- **2009-2013: Bsc**, faculty of agriculture, genetics dept., biotechnology program, Cairo Uni., Egypt.
- **2015 till now:** MSc. Student at genetics dept. faculty of agriculture Cairo Uni.

Thesis title: Molecular Genetics Studies of Plant Resistant to Nematode.

Work experience:

- Teaching assistant at genetics dept. faculty of agriculture, Cairo Uni. Since May 2014.

Undergraduate courses :

General genetics – Introduction to biotechnology – Molecular genetics I – Molecular genetics II – Application of genetic engineering in animal production – Bioinformatics – Gene transfer – Morphogenesis & embryogenesis – Cell biology - Issues in biotechnology – Pharmaceutical biotechnology.

Postgraduate courses:

Gene technology – Population genetics – Cytology – Plant metabolism - Experimental design - Scientific writing- Advanced Genetics – Bioinformatics – Nematode physiology.

Courses teaching:

Molecular genetics I- Molecular genetics II- Principles of food biotechnology- Bioinformatics- Pharmaceutical biotechnology- General genetics 101- Advanced genetics- Introduction to biotechnology- Issues in biotechnology- Morphogenesis and embryogenesis.

Conferences:

- **International:**
 - The plant microbiome, ElGouna, 2018.
 - 2016: Biovision Alexandria, 2016.

- GMC conference organized by EBIC (Egyptian biotechnology information center) at central library of faculty of agriculture Cairo Uni., 2013 (organizer).
- Egyptian-German day at faculty of agriculture, 2012 & 2015 (organizer and speaker).

• **National:**

- Bioteam conference volume II at LRC, faculty of medicine Cairo Uni., 2016 (speaker about the skills a young biotechnologist should acquire before graduation to be qualified to the market).
- SCITA juniors, 2016 (speaker, as a representative of faculty of agriculture and explaining its departments to secondary school students).
- SCITA Biofans volume III, 2015 (organizer).
- SCITA Biofans volume II, 2014 (participant).

Workshops & trainings:

- Two days bioinformatics workshop at Nile Uni., 2018. **Content:** Metagenomics.
- 2nd Egyptian bioinformatics workshop, Nile Uni., 2017.
- Three days bioinformatics workshop at SEA academy, 2016. **Content:** Databases, BLAST, Phylogeny, principles of Microarray and real time PCR data analysis and introduction to programming.
- Two days' workshop at Biolab training center, 2013. **Content:** RNA seq.
- Two weeks training at the agriculture and genetic engineering research institute AGERI, 2012. **Content:** Cloning, PCR, electrophoresis, DNA & RNA extraction, Bacterial transformation.
- Two weeks training at Cairo Uni. Research park CURP, 2012. **Content:** Cloning, PCR, electrophoresis, DNA & RNA extraction, Bacterial transformation, basics of microbiology and biochemistry analysis.

Study trips:

- DAAD scholarship (GERSS), 2017-2018:
- 6 months internship at German Centre for Integrative Biodiversity Research (iDiv), Leipzig. The aim of the internship is to finish the practical part of my master thesis. I worked with the PhD student Crispus Mbaluto, under supervision of Dr. Ainhoa Martinez-Medina and Prof. Nicole van Dam.
- The project titled "Impact of nematode parasitism in aboveground plant defenses". We studied the ecological impact of nematode invasion on plant resistance against sucking insects "*Macrosiphum euphorbiae*" in tomato plants, using molecular (qPCR) and chemical (HPLC) tools and protocols developed in the host institution.
- DAAD funded -2 weeks- study trip to Germany, 2012:
- Visited fields, factories and labs at different five cities and participating in some of the running experiments at those labs and institutes.

- Visited universities, institutes and cultural places: IGZ, ZALF, JKI, Bee research institute, Energy research center.

Practical skills:

- DNA extraction – RNA extraction – qRT-PCR- qRT-PCR data analysis- Phytohormones analysis- DNA & protein electrophoresis – nematode extraction and identification – basics of Perl programming language – scientific writing.

Student activities & NGOs:

- Fundraising member at “You Turn” student activity at Cairo Uni., 2010.
- Head of PR committee at You turn, 2011.
- Member & a team leader of “Akhlakna Fi Masreytna” project at You turn, a project aiming to spread the values between community members in streets, public transports school and university students, 2011:2013.
- Participants at the “Book club” a project aiming to spread reading between community members.
- Member at “ Bozor El-Hayah” a project aiming to teaching secondary school students soft and hard skills and peresentation skills in public schools, 2014.

Languages:

- Arabic: Mother tongue
- English: C1
- Deutsch: A2

Computer skills:

- Proficient with MS office (Excel, PowerPoint, Word, Outlook, etc....)
- Beginner in R & Perl programming languages.

Soft skills:

- Presentation skills, team work, leadership and self-learning.

References:

- Prof. Dr. Mohammed A. M. Aly.
Email: mohammedaly1@hotmail.com. Phone no.: 0100 159 6233
- Dr. Heba M. Ibrahim.
Email: heba.m.m.ibrahim@gmail.com. Phone no.: 0100 972 7406
- Prof. Dr. Nicole van Dam.
Email: nicole.vandam@idiv.de
- Dr. Ainhoa Martinez-Medina.
Email: ainhoa_martinez.medina@idiv.de