

# Curriculum Vitae

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Richland College  
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## **Education**

PhD, Molecular Biology. University of Wyoming, Laramie, WY  
M.Sc., Molecular Biology. Cairo University, Egypt  
B.Sc., Microbiology. Alexandria University, Egypt

## **Teaching Experience**

### I- Richland College in Dallas, Texas

Associate Faculty, July 2017 – Present

#### Responsibilities:

Teaching general biology class

#### Duties include:

- 1- Preparing lectures and teaching
- 2- Preparing quizzes and exams.
- 3- Maintaining precise student records in compliance with the guidelines for Richland College.
- 4- Providing supports/tutorials to students when they need it.

### II- Collin College in Plano, Texas

Associate Faculty, June 2016 – Present

#### Responsibilities:

Teaching general biology lab

#### Duties include:

- 1- Preparation of media, buffer and setting up individual work stations.
- 2- Monitoring student experiments, troubleshooting technical problems and ensuring smooth operations.
- 3- Preparing quizzes and exams and grading them.
- 4- Maintaining precise student records in compliance with the guidelines for Collin College.
- 5- Providing supports/tutorials to students when they need it.

## **Publications and Papers**

Day M., Ibrahim M., Dyer D., and Bulla LA. (2014). Genome sequence of *Bacillus thuringiensis* subsp. *kurstaki* Strain HD-1. *Genome Announcements* 2 (4), 1-2

Ibrahim M., Grirko, N., Bulla, LA (2013). Cytotoxicity of the Cry4B toxin of *Bacillus thuringiensis* is mediated by the Cadherin Receptor BT-R3 of *Anopheles gambiae*. *Exp Biol Med.* 238 (7), 755-64

Ibrahim M., Grirko N., Bulla, LA (2013). The Cry4B Toxin of *Bacillus thuringiensis* subsp. *israelensis* Kills Permethrin-resistant *Anopheles gambiae*, the Principal Vector of Malaria. *Exp Biol Med.* 238 (4), 3509

Abd Elhamid M., Makboul H., Sedik M., Ismail M., and Ibrahim M. (2010). Cloning, expression and antifungal activity of an endochitinase gene derived from barley (*Hordeum vulgare*). *Research Journal of Agriculture and Biological Sciences*, 6(3): 356-363

Ibrahim M., Griko N., Junker M., Bulla L. Jr (2010). *Bacillus thuringiensis*: a genomics and proteomics perspective. *Bioengineered Bugs.* 1, 31-50

I certify that statements made by me in this vitae are true, complete and correct.

Hassanein S., Abdel-Tawab F., Fahmy E., Gad El-Karim Gh., Alniemi T., Ibrahim M., Mostafa S., Ramadan A., Saleh O., Eissa, H., Bahieldin A. (2009). Molecular assessment of chitinase activity in transgenic wheat. Egyptian J. Genet. Cytol. 38, 207-220

Sun J., Griko N., Ibrahim M., Zhang X., Bulla L. Jr (2008). Genome-based technology for discovery, identification and validation of insecticide and drug targets. Trends in Compar. Biochem. Physiol. 13, 1-10.

Griko N., Zhang X., Ibrahim M., Midboe E., Bulla L. Jr. (2008). Susceptibility of *Manduca sexta* to Cry1Ab toxin of *Bacillus thuringiensis* correlates directly to developmental expression of the cadherin receptor BTR1. Comp. Biochem. Physiol. B. 151, 59-63.

Kamal Z., Fetyan N., Ibrahim M., El-nagdy S. (2008). Biodegradation and detoxification of Malathion by *Bacillus thuringiensis* MOS-5. Australian J. Basic Appl. Sci. 2, 724-732.

Moustafa S., Ismail M., Metry E., Ghazal S., and Ibrahim M. (2007). Cloning and characterization of  $\beta$ -1,3 glucanase from blight resistant and susceptible potato (*Solanum tuberosum* L.) cultivars. J. Appl. Sci. Res. 3, 1960-1968.

Griko N., Rose-young L., Zhang X., Carpenter L., Candas M., Ibrahim M., Junker M., Bulla L. Jr. (2007). Univalent binding of the Cry1aAb toxin of *Bacillus thuringiensis* to a conserved structural motif in the cadherin receptor BT-R1. Biochemistry 46, 10001-10007.

Sharaf A., Soliman M., Ibrahim M., Moustafa S., Abd El-Hadi A. (2007). Molecular identification and cloning of organophosphate degradation gene in some bacterial isolates. Arab J. Biotechnol 10(2), 259-274

### **Qualifications**

Solid background and extensive experience in the following areas:

#### I- Microbiology:

- 1- Isolation, identification and molecular characterization of bacteria.
- 2- Maintenance, preservation and proper documentation of microbial cultures.
- 3- Experience in preparation of different culture media and buffers.
- 4- Microscopy

#### II- Molecular biology:

- 1- Isolation of DNA and RNA from different biological samples.
- 2- Library (genomic and cDNA) construction, screening and selection of desired clones.
- 3- Primer design, PCR and real-time PCR.

#### III- Molecular diagnostics:

- 1- Development, validation and utilization of cost-effective molecular tools for diagnostics of various hereditary and infectious diseases.
- 2- Knowledgeable of several bioinformatics algorithms, tools and databases such as BLAST, ClustalW, FGENSEB, NetPrimer, Ensemble and Markov chain-based gene prediction, among others.

### **Relevant Work Experience**

- 1- Progressive Molecular Diagnostics, LLC. Senior Research Scientist, May 2010- May 2017
- 2- Custom Gene, LLC. Senior Research Scientist, June, 2012-December 31, 2014
- 3- Biological Targets. Senior Research Scientist, April, 2009– May 2012
- 4- Center for Applied Biology, UT Dallas, Richardson, TX. Research Associate, February 2005– December 2008.

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