

## Curriculum Vitae

### ♣ Personal information:

Full name: Rania Ibrahim Shebl Hegazy.  
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### ♣ Education:

- ◆ **PhD degree in *Microbiology and Immunology*, Faculty of Pharmacy. Cairo University (2013)**
- ◆ **Master degree in *Microbiology and Immunology*, Faculty of Pharmacy. Cairo University (2009)**
- ◆ **Bachelor of Pharmaceutical Sciences, Faculty of Pharmacy. Cairo University. (May 2001) *Very good with degree of honor.***

♣ Title of Master thesis: Isolation of causative agent of chickenpox disease and its biological behavior in cell culture.

♣ Title of PhD thesis: Studies on the biological activities of snake venoms.

### ♣ Work experience:

**2020 till now:** Head of quality assurance unit- Faculty of pharmacy, Ahram Canadian University (ACU).

**2019 till now:**

**Associate Professor in Microbiology and Immunology department, Faculty of pharmacy, Ahram Canadian University (ACU).**

Main Responsibilities include:

- Achieving the intended learning outcomes for all courses in microbiology and immunology department through presenting interactive lectures to students and supervision on the practical labs as well as the students' assignments and projects.
- Performing research studies according to the departments research plan.
- Participating in quality assurance activities and community serving.

- Active participation in scientific conferences and projects.

**2013-2019:**

**Lecturer in Microbiology and Immunology department, Faculty of pharmacy, Ahram Canadian University (ACU).**

**2008 - 2013:**

**The Egyptian Company for Biological Products & Vaccines (Egy-Vac, VACSERA).**

**In process quality control and documentation manager in cell culture department:**

Main Responsibilities include:

- In process quality control on maintenance and preservation of different cell cultures with prevention, detection and cure of contamination.
- Ensuring that all operations are carried out according to quality management systems and solving production problems that may affect product quality.
- Preparation of hyper immune antiserum in animals.
- Annual reviewing of standard operating procedures and documenting it in coordination with documentation unit.
- Training new employee on all cell culture working procedures.
- Establishment of training courses as well as work shops in cell culture for undergraduate students and postgraduate researchers.

**2005 -2008:**

**The Egyptian Company for Biological Products & Vaccines (Egy-Vac, VACSERA).**

**Specialist in Cell Culture department:**

Main Responsibilities include:

- Preparation of primary cell lines as: Human skin, human breast cancer, chicken embryo and rat kidney.
- Maintenance and subculture of all types of cell lines required for production of viral vaccines, diagnosis of viral infections, production of monoclonal antibodies and research.
- Preservation of primary and continuous cell lines in liquid nitrogen for many years.
- Thawing of frozen cells and maintaining their viability.
- Establishment of cell banks for all cell types.

- Maintenance, preservation and thawing of stem cells which are used as new substitute for organ transplantation.
- Isolation of melanocytes from normal skin and propagation of these cells in vitro to be used in treatment of eczema.
- Preparation of media for cell culture and performing quality control on the prepared batches.

**2002 -2005:**

**The Egyptian Company for Biological Products & Vaccines (Egy-Vac, VACSERA).**

**Specialist in Virus Control department:**

Main Responsibilities include:

- Quality control on trivalent oral poliomyelitis vaccine including identity, potency, typing and thermal stability using tissue culture technique as well as quality control on monovalent bulk vaccine.
- Determination of poliomyelitis antibody titer in human serum.
- Determination of potency of hepatitis B vaccine using ELISA technique.
- Determination of potency of MMR vaccine using cell culture technique.
- Training new employee on all working procedures.

**♣Training courses and workshops:**

- Training in Cid Company (1999).
- Training in Hoechst Marion Reussel – Quality control lab & production area (2000).
- Training in Fayed pharmacy (2000-2001).
- Training in Ghada pharmacy (2001-2002).
- Training course in molecular biology & chromosomal abnormalities (2003-VACSERA).
- Training course in occupational health & safety (OHSAS 18001) (2004-VACSERA).
- Training course in production of antibodies and its applications (January 2009-VACSERA).
- Practical training course in diagnosis of herpes viruses using cell culture and PCR techniques (February 2009-VACSERA).
- Training course in quality control (QC) and quality assurance (QA) of pharmaceuticals and biomedical industries (May 2009-VACSERA).
- Training course in vaccination by molecular biology technology (July 2009-VACSERA).

- Practical training course in genetic engineering of cells (November 2009-VACSERA).
- English training courses (March-July 2010- VACSERA).
- Training course in sterilization, quality assurance and validation of sterile areas (July 2010-VACSERA).
- Training course in test methods for environmental monitoring for aseptic facilities (January 2011-VACSERA).
- Workshop in: strategic planning for institutions of higher education (16<sup>th</sup>-17<sup>th</sup> September 2013-ACU).
- Workshop in: Road to accreditation - How to write self study report (16<sup>th</sup> -17<sup>th</sup> February 2014-ACU).
- Workshop in: Road to accreditation - Pharmacy NARS & Program ILOs (2<sup>nd</sup>-3<sup>rd</sup> March 2014-ACU).
- Training course in: Educational programs, course specifications and evaluation of learning outcomes (14<sup>th</sup>-16<sup>th</sup> September 2014-ACU).
- Workshop in: Blended learning (1<sup>st</sup> December 2014-ACU).
- Workshop in: Research design, assessment and write up (20<sup>th</sup> May 2015-ACU).
- Training course in: Exams and students evaluation systems (30<sup>th</sup>-31<sup>st</sup> July 2016-Faculty and Leadership Development Center).
- Training course in: International publishing of scientific research (8<sup>th</sup>-9<sup>th</sup> August 2016-Faculty and Leadership Development Center).
- Training course in: Use of technology in teaching (20<sup>th</sup>- 21<sup>st</sup> August 2016-Faculty and Leadership Development Center).
- Training course in: Educational programs, course specifications and evaluation of learning outcomes for higher educational institutes (25<sup>th</sup>-27<sup>th</sup> September 2016-ACU).
- Training course in: Exam systems and students' assessment methods (21<sup>st</sup>-22<sup>nd</sup> February 2017-ACU).
- Training course in: International publishing of scientific research (3<sup>rd</sup>-4<sup>th</sup> May 2017-ACU).
- Workshop in: Program specifications (19<sup>th</sup> October 2017-ACU).
- Workshop in: Automation in Microbiology (20<sup>th</sup> November 2017- clinical pathology department – National Cancer Institute).
- Workshop in: Evaluating intended learning outcomes (10<sup>th</sup> December 2017-ACU)

- Training course in: Building the team work according to the concept of quality (16<sup>th</sup> January 2018-ACU).

- Workshop in: Situational leadership skills and the art of effective motivation (21<sup>st</sup> December 2020-ACU).

**♣ Attended Conferences:**

◆ Pharmaceutical and Biopharmaceutical Compliance Summit by the Pyramids 4<sup>th</sup>-7<sup>th</sup> October 2004 - Ramses Hilton Hotel).

◆ The XX annual conference of the Egyptian society of laboratory medicine: Seeking excellence in laboratory practice 28<sup>th</sup>-30<sup>th</sup> March 2009 - Cairo International Conference Centre).

◆ The 14<sup>th</sup> Pan Arab Conference on Diabetes (23<sup>rd</sup>-26<sup>th</sup> March 2010- Cairo).

◆ The 1<sup>st</sup> Annual scientific conference of the clinical and chemical pathology department, Cairo University, Molecular Biology: Into the future, 31<sup>st</sup> March-2<sup>nd</sup> April 2010 - Cairo International Conference Centre).

◆ International Conference of Clinical Microbiology, Antimicrobial resistance: Mechanisms, novel molecular technology and necessity of stewardship (3<sup>rd</sup>-4<sup>th</sup> March 2016- Intercontinental city stars Hotel).

◆ Implementation & overcoming challenges of biobanking in Middle East & limited resources countries (1<sup>st</sup>-2<sup>nd</sup> June 2016 - Safir Hotel).

◆ The 7<sup>th</sup> International scientific conference of faculty of pharmacy, Cairo university: Translational Research in Pharmacy: From Bench to Market (16<sup>th</sup>-17<sup>th</sup> April 2016).

◆ The 1<sup>st</sup> Ahram Canadian university international conference, faculty of pharmacy: New Trends in Pharmaceutical and Medical Research (28<sup>th</sup>-29<sup>th</sup> May 2016).

◆ The 4<sup>th</sup> International Conference of Pharmaceutical Sciences, faculty of pharmacy, Future University in Egypt (31<sup>st</sup> January-2<sup>nd</sup> February 2017 - Dusit Thani Hotel).

◆ The 8<sup>th</sup> International scientific conference of faculty of pharmacy, Cairo university: Pharmacy in Egypt: Ensuring Access to Health (22<sup>nd</sup> April 2017).

◆ Egyhealth and HealthCare: Transformation in Egypt: Leading a change in healthcare industry (3<sup>rd</sup>-4<sup>th</sup> October 2017-Pyramisa Hotel).

◆ Conference of the Academy of Scientific Research and Technology (ASRT) and the Arab-German Young Academy of Sciences and Humanities (AGYA) “Women Empowerment through Science, Technology and Innovation: New Horizons in Stimulating Growth and Development” (25<sup>th</sup> October 2018- Al Salam Theater).

**♣ Activities:**

◆ Participation in the organization of: Antibiotic resistance awareness day: Handle antibiotics with care (9<sup>th</sup> December 2015).

**◆ Member in the community serving committee and participating in the organization of the following lectures:**

1- The art of time management and pressure (Prof. Dr. Magdy Thabet, 2<sup>nd</sup> November 2016).

2- Smoking cessation (Ass. Prof. Dr. Mohamed Emam, 7<sup>th</sup> December 2016).

3- Advanced methods of analysis (Ass. Prof. Dr. Adel Magdy, 14<sup>th</sup> December 2016).

4- Oral and dental care: Prevention of oral and gum diseases (Dr. Sayed Rashed, 15<sup>th</sup> March 2017).

5- Patient counseling (Dr. Aya Salem, 12<sup>th</sup> April 2017).

6- Campaign of Pharmacology and diabetes (Prof. Dr. Magdy Thabet & Dr. Mohamed Emam, 19<sup>th</sup> April 2017).

◆ Presenting a lecture in: Cell culture and its applications (Basics and outlook to the future), 30<sup>th</sup> November 2016.

◆ Participation in the organization of: TEDx (technology, entertainment, design) conference (8<sup>th</sup> March 2017).

◆ Participation in the organization of: Certificate and Training Day (٢٦<sup>th</sup> April 2017).

◆ Participation in the organization of: Ahram Canadian University Scientific Day (20<sup>th</sup> March 2018).

◆ Reviewer in African Journal of Microbiology Research, ISSN: 1996-0808.

**Posters:**

1- Subminimum inhibitory concentrations of different bioactive compounds on biofilm formation and virulence factors of clinical isolates of *Acinetobacter baumannii*.

2- The potential of surfactants in biodegradation of naphthalene by the white rot fungus *Pleurotus ostreatus* and related gene expression of Laccase enzymes.

**♣ Activities related to academic quality assurance:**

- ◆ Member in quality assurance unit during the academic years 2014-2015 & 2015-2016.
- ◆ Participation in designing the program specifications for faculty of pharmacy (Ahrum Canadian University) during the academic years: 2014-2015, 2015-2016, 2017-2018 and in performing all matrices related to the program.
- ◆ Performing and updating all the course specification related to microbiology department.
- ◆ Preparing all matrices related to each course as well as course files and course reports.
- ◆ Team leader in writing the self-study and preparing documents required for fulfilling the standard of the academic standards during the academic years 2014-2015 & 2015-2016.
- ◆ Member in the committee for the academic standards, programs and academic courses during the academic years 2016-2017& 2017-2018.
- ◆ Team leader in writing the self-study and preparing documents required for fulfilling the standard of the academic standards, programs and academic courses during the academic years 2016-2017& 2017-2018.
- ◆ Head of quality assurance unit - faculty of pharmacy (Ahrum Canadian University).

**♣ Supervision on master thesis:**

1- Shaza Mohamed Elhusseiny, Magdy Ali Amin and Rania Ibrahim Shebl. (2017). White-Rot Fungi in Biodegradation of Selected Polycyclic Aromatic Hydrocarbon Model. Faculty of pharmacy. Cairo University.

2- Contributing in the supervision on the following thesis:

Mona Hassan Mahmoud, Aly Fahmy Mohamed and Magdy Ali Amin. (2016). Effect of Subminimum inhibitory concentrations of different bioactive compounds on biofilm formation and virulence factors of clinical isolates of *Acinetobacter baumannii*. Faculty of pharmacy. Cairo University.

**♣ Certificates and awards:**

- ◆ Certificate of **11 years of experience** from the holding company for biological products and vaccines (VACSERA) in cell culture, quality control on viral vaccines, good laboratory practice and quality assurance.
- ◆ Certificate of the **international computer driving license (ICDL)**.

- ◆ Certificate of being a **lecturer** and **trainer** in training courses and work shops held in VACSERA cell culture department for undergraduate students and postgraduate researchers.
- ◆ An award for the appreciated efforts in organizing the community serving conference **TEDx** (Technology, Entertainment, Design).

**♣Skills and other information:**

- ◆ Computer skills in windows, word, power point, excel, access, information technology and internet.
- ◆ Excellent command of English read, written and spoken.
- ◆ Ability to work independently, as well as a team member.
- ◆ Dedicated to work, hard worker with potential to work long hours.
- ◆ Strong leadership and team-building skills in addition to excellent social and organizing skills.
- ◆ Excellent teaching skills as well as application of educational technologies and the use of interactive software programs.

**♣Publications:**

- ◆ **Shebl RI**, Ali A E, Mohamed A F and Amin. M A. (2009). Biological behaviour of *Varicella Zoster Virus* recovered from Egyptian children in cell culture as a useful tool for antiviral screening assays. *Egyptian Journal of Biotechnology*. 32: 465-480.
- ◆ **Shebl RI**, Amin MA, Emad-Eldin A, Bin Dajem SM, Mostafa AS, Ibrahim EH, Mohamed AF. (2012). Antiviral activity of liquorice powder extract against varicella zoster virus isolated from Egyptian patients. *Chang Gung Med J*. 2012 May 1;35(3):231-9.
- ◆ **Shebl RI**, Ali A E, Mohamed A F and Amin. M A. (2012). *Cerastes cerastes* and *Vipera lebetina* snake venoms apoptotic – stimulating activity to human breast cancer cells and related gene modulation. *Journal of Cancer science and therapy*. 4(10):317-323.



- ◆ **Shebl RI**, Ali A E, Mohamed A F and Amin. M A. (2012). Antimicrobial Profile of Selected Snake Venoms and Their Associated Enzymatic Activities. *British Microbiology Research Journal*. 2(4): 251-263.
  
- ◆ Alyan M S, Shalaby M A, El-Sanousi A A, Fahmy A, El-Sayed M, **Shebl RI**. (2016). New trends in cancer therapy and antiviral drug research. *International journal of advanced research*.4 (5):698-710.
  
- ◆ Al-Olayan EM, Mohamed AF, El-Khadrahy MF, **Shebl RI**, Yehia H. (2016). An Alternative Inactivant for Rift Valley Fever Virus using Cobra Venom-derived L-Amino Oxidase, which is Related to its Immune Potential. *Brazilian Archives of Biology and Technology*.59:1-12.
  
- ◆ Yaseen RA, Mohamed AF, Bakkar A, **Shebl RI**, Sabatseir JM. (2016). Grape Seed Extract Induces G2/M Cell Cycle Arrest and Apoptosis Via Generation of Reactive Oxygen Species in Breast and Colon Cancer Cell lines. *Inventi Rapid: Animal Models &Cell Assays*, 2017(1):1-6.
  
- ◆ Ayman M, Mohamed AF, Bakkar A, **Shebl RI**, Sabatier J-M. (2017). The Bacillus Calmette-Guérin Derived Purified Protein (PPD) Potentiates In-Vitro Anti-cancer Activity of Cerastes cerastes Snake Venom in Colon and Prostate Cancer Cells. *Inventi Rapid: Molecular Pharmacology*. 2017(2):1-9.
  
- ◆ **Shebl RI**, Farouk F, Azzazy HM. (2017). Effect of Surface charge and hydrophobicity modulation on the antibacterial and antibiofilm potential of magnetic iron nanoparticles. *Journal of Nanomaterials*. 2017. Article ID 3528295, 15 pages <https://doi.org/10.1155/2017/3528295>.
  
- ◆ Ayman M, El-Aziz Badr DA, **Shebl RI**, Mohamed AF. (2017). Comparative Evaluation of Alum and MPL as Adjuvants Toxicity and Related Immune Potential of Adjuvanted Rabies Vaccine. *SL Gastroenterol*. 1(1):112.

- ◆ Elhusseiny S M, Amin H M. and **Shebl R I.** (2017). Mathematical Model for Optimization of Naphthalene Degradation by *Pleurotus ostreatus*. New Egyptian journal of Biotechnology. Vol. 55.
  
- ◆ **Shebl RI.** Anti-cancer Potential of Captopril and Botulinum Toxin Type-A and Associated p53 Gene Apototic Stimulating Activity. Iranian Journal of pharmaceutical Research. Accepted to on line publish on 13<sup>th</sup> December 2017. (ID: IJPR-1702-10727)
  
- ◆ Mahmoud MH, Amin MA, **Shebl RI**, Mohamed AF, Zafer MM. (2018). Influence of Subminimal Inhibitory Concentrations of Some Bioactive Compounds on the Biofilm Formation Ability and Virulence Factors of Multiple Drug Resistant *Acinetobacter baumannii* Clinical Isolates. African Journal of Microbiology Research. 28;12(12):275-83.
  
- ◆ Elhusseiny SM, Amin HM, **Shebl RI.** (2018). Modulation of Laccase Transcriptome During Biodegradation of Naphthalene by White Rot Fungus *Pleurotus ostreatus*. International Microbiology. 2018:1-9.
  
- ◆ Farouk F and **Shebl RI.** (2018). Comparing surface modifications of Zinc Oxide Nanoparticles for modulation of their antiviral activity against Herpes Simplex Virus Type-1. International Journal of Nanoparticles and Nanotechnology. 4:021.
  
- ◆ Ebtessam M. Al-Olayan, Manal F. El-Khadragy, Aly Fahmy, Amany Khalil Mohamed, **Rania Ibrahim Shebl** and Hany Yehia. (2019). Evaluation of different stabilizers and inactivating compounds for the enhancement of Vero cell rabies vaccine stability and immunogenicity: In vitro study. Biomed Research International. Volume 2019, Article ID 4518163, 9 pages.
  
- ◆ **Shebl RI** and Mosaad Y O. (2019). Frequency and Antimicrobial Resistance Pattern among Bacterial Clinical Isolates Recovered from Different Specimens in Egypt. Central African Journal of Public Health. 5 (1): 36-45. doi: 10.11648/j.cajph.20190501.16.

