



# CURRICULUM VITAE

## RANIA EL-LETHY

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### Personal Information:

**Name:** Rania El-Lethy Abd El-Hamed El-Lethy.  
**Home address:** Helwan, Cairo, Egypt.  
**Date of Birth:** 21/6/1980 (d/m/y).  
**Place of Birth:** Helwan, Cairo, Egypt.  
**Gender:** Female.  
**Marital Status:** Divorced (one child; 5 years).  
**Nationality:** Egyptian.

### Education:

<b>[May 2001]:</b>	<b>B.Sc.</b> of Chemistry & Biochemistry, Faculty of Science, Helwan University, Cairo, Egypt.
<b>Cumulative grade:</b>	Very good with honor degree.
<b>Graduation Project:</b>	"Degenerative Brain Diseases"
<b>Project grade:</b>	Excellent.
<b>[June 2002]:</b>	Pre-master program in Biochemistry (Very good), Faculty of Science, Helwan University, Cairo, Egypt
<b>[July 2007]:</b>	<b>M.Sc.</b> in Biochemistry, Faculty of Science, Helwan University, Cairo, Egypt.
<b>Thesis title:</b>	" Effect of Some Semi Synthetic Compounds on The Proliferation Capacity and Cell Cycle of Hepatocellular Carcinoma"

<b>[July 2013]:</b>	<b>Ph.D.</b> in Biochemistry, Faculty of Science, Helwan University, Cairo, Egypt.
<b>Thesis title:</b>	"Evaluation of novel Gold Nanoparticles Polymer Complex Compound as New Trend for Tumor Therapy"

### **Employment :**

**[26 November 2013 – Till now]:** *Lecturer* of biochemistry, chemistry department, Faculty of Science, Helwan University, Ain Helwan, Cairo, Egypt.

**[1 August 2007 – 25 November 2013]:** *Assistant Lecturer* of biochemistry, chemistry department, Faculty of Science, Helwan University, Ain Helwan, Cairo, Egypt.

**[15 October 2002 – 30 July 2007]:** *Demonstrator* of biochemistry, chemistry department, Faculty of Science, Helwan University, Ain Helwan, Cairo, Egypt.

### **Teaching Experience:**

\*Teaching the practical laboratory courses of biochemistry including [Carbohydrates chemistry & metabolism, Proteins chemistry & metabolism, Chemistry of Vitamins, Enzymology, Chemistry & Metabolism of Lipids, Immunology, Biological Fluids, Chromatography, Clinical Enzymology, Molecular Biology and Cell Biology], general analytical chemistry and general organic chemistry for undergraduate students of science, engineering and pharmacy faculties, Helwan University.

\*Teaching the theoretical course of Biological Fluids for fourth year of chemistry- biochemistry students and microbiology- biochemistry students.

\*Teaching the theoretical course of Chemical Pathology& Hematology for biochemistry diploma students.

\*Teaching the theoretical course of Biochemistry-I (protein chemistry, lipid chemistry and carbohydrates chemistry) for second year of biotechnology students.

\*Teaching the theoretical course of Hormones for third year of chemistry- biochemistry students and microbiology- biochemistry students.

\*Teaching the theoretical course of Carbohydrates metabolism and Protein metabolism for fourth year of chemistry- zoology students.

\*Teaching the theoretical courses of Cancer Biology for biochemistry diploma students.

### Language skills:

**Arabic:** Mother tongue.

**English:** Very Good in writing, reading & speaking.

### Computer skills:

- Excellent knowledge of windows 98, 2000 and XP.
- ICDL (International Computer Driving License).

### Personal skills:

- Ability to work under pressure and in a team.
- Able to learn anything in a very short time.
- Self motivated, open minded, dynamic, hard worker, dedicated, intelligent, very efficient and honest.
- Friendly relationship with my students.
- A very good personal and communication skills in dealing with people.

### Hobbies:

Reading, Searching the internet, Swimming and Traveling.

### Visits:

- Jordan.

### Publications:

\* Rania EL-Lethy Abd EL-Hamed, *Effect of Some Semi Synthetic Compounds on The Proliferation Capacity and Cell Cycle of Hepatocellular Carcinoma*. M.Sc. Thesis in Biochemistry, Chemistry Department, Faculty of Science, Helwan University, Egypt, 2007.

\* **Mohga S. Abdalla, Hayat M. Sharada, Eman N. Ali, Wafaa A. Ahmed and Rania EL-Lethy Abd EL-Hamed**, (2007): Hexamethylene bisacetamide and t-butyl hydroquinone potential therapeutic agents induced apoptosis and cell cycle arrest of hepatocellular carcinoma Hep-G2 cells. *EJBMB*, 25: 441-458.

\* Rania EL-Lethy Abd EL-Hamed, *Evaluation of novel Gold Nanoparticles Polymer Complex Compound as New Trend for Tumor Therapy*. Ph.D Thesis in Biochemistry, Chemistry Department, Faculty of Science, Helwan University, Egypt, 2013.

\* **Mohga S. Abdalla, Hayat M. Sharada, Eman N. Ali, Nahla A. Mansour and Rania EL-Lethy**, (2013): The effect of synthetically prepared mixed nanogold polymer on experimentally induced tumor of adult female albino mice histological studies. *Journal of Applied Sciences Research*, Vol. 9(3) March.

### Conference papers :

- Mohga S. Abdalla, Hayat M. Sharada, Eman N. Ali, Wafaa A. Ahmed and Rania EL-Lethy Abd EL-Hamed "Hexamethylene bisacetamide and t-butyl hydroquinone potential therapeutic agents induced apoptosis and cell cycle arrest of hepatocellular carcinoma Hep-G2 cells" As speaker in Annual Scientific Conference of Biochemistry & Molecular Biology (April 2007).
- "Evaluation of novel Gold Nanoparticles Polymer Complex Compound as New Trend for Tumor Therapy" **Ph.D Thesis**, as a speaker in The 11<sup>th</sup> Annual Congress of Medical Sciences (December 2013).
- "Novel Gold Nanoparticles Polymer Complex Compound Potential Therapeutic Agent Induced Apoptosis and Cell Cycle Arrest of Hepatocellular Carcinoma Hep-G2 Cells", as a speaker in The 2nd International Conference on Advanced basic and Applied sciences (April 2014).
- "Potential Therapeutic Application of Novel Polymer Gold Nanoparticles on MCF-7 Cell line". , as a speaker in The International Conference of Nanotechnology, Biotechnology and Spectroscopy (March 2015).

### Experience:

- Good experience in the field of cancer biology and cell culture.
- Dealing with human tumor cell line (Maintenance of the cell line in the laboratory, harvesting of the cells, trypsinization procedure, counting of the viable cells & cryopreservation of cells).
- Good knowledge in principles, application and methodology of flow cytometry technique.
- Dealing with female Swiss albino mice experimental animal and good experience in transplantation of solid tumor by intramuscular inoculation.
- Good knowledge in preparation of compounds in nano-size by using Ball Mills apparatus.
- Designing a research proposal, evaluating results, and interpretate findings.
- Cooperation with colleagues led to have successive research results.

### Activities:

- A member in Egyptian Society of Biochemistry & Molecular Biology, Biochemistry Department, Kasr Al Aini Faculty of Medicine, Cairo University, Cairo, Egypt.

- A member in Egyptian Society for Science and Technology of Biomaterials (ESSTB), National Research Center, Giza, Egypt.
- A member in Egyptian Association for The Study of Liver and Gastrointestinal Diseases (EASLGD).
- A member in Naqaa Foundation for Scientific Research.

### Conferences Attendance :

	<b>Conference Name</b>	<b>Place</b>	<b>From</b>	<b>To</b>
<b>1</b>	The 5 <sup>th</sup> National Conference of Biochemistry & Molecular Biology	Academy of Scientific Research & Technology, Cairo, Egypt.	12-May 2002	14-May 2002
<b>2</b>	The 1 <sup>st</sup> International Conference of Cancer Chemoprevention "Targets & Mechanisms"	National Research Center (NRC), Giza, Egypt.	20-February 2006	22-February 2006
<b>3</b>	Annual International Congress of Egyptian Society of Biochemistry & Molecular Biology, Annual Scientific Conference of Biochemistry & Molecular Biology [New Approaches and Future Challenges in Biochemistry & Molecular Biology] "attending and participating as speaker"	Ain Shams University Guest House, Abbassia, Cairo, Egypt.	19-April 2007	20-April 2007
<b>4</b>	8 <sup>th</sup> National Conference of Biochemistry & Molecular Biology & Their Role in Development and Environment	Ain Shams University Guest House, Abbassia, Cairo, Egypt.	4-March 2008	6-March 2008
<b>5</b>	The 11 <sup>th</sup> Annual Congress of Medical Sciences [Medical Research between Theory & Applications: Challenges and Innovations] "attending and participating as speaker"	National Research Center (NRC), Giza, Egypt.	17-December 2013	19-December 2013

<b>6</b>	2nd International Conference on Advanced Basic & Applied Sciences "attending and participating as speaker"	Faculty of postgraduate studies for advanced sciences, Beni-Suef University. (Sokhna, Egypt)	2- April 2014	4- April 2014
<b>7</b>	The 12 <sup>th</sup> Annual Congress of Medical Sciences [Medical breakthrough technologies towards a healthy community].	National Research Center (NRC), Giza, Egypt.	17- December 2014	18- December 2014
<b>8</b>	The 1 <sup>st</sup> International Conference of Egyptian Society for Science and Technology of Biomaterials (ESSTB), "Transfer of Biomaterial into Technology"	National Research Center (NRC), Giza, Egypt.	1- March 2015	2- March 2015
<b>9</b>	The 13 <sup>th</sup> Congress of the Egyptian Association for The Study of Liver and Gastrointestinal Diseases (EASLGD).	Grand Nile Towers Hotel, Cairo, Egypt.	3- March 2015	5- March 2015
<b>10</b>	The International Conference of Nanotechnology, Biotechnology and Spectroscopy.	Cataract Pyramids Hotel, Giza, Egypt.	27- March 2015	29- March 2015

**Workshops Attendance :**

	<b>Workshop Name</b>	<b>Place</b>	<b>From</b>	<b>To</b>
<b>1</b>	The training course on ancillary techniques in tumor pathology "Flow Cytometry"	National Cancer Institute, Cairo University, Cairo, Egypt.	18-December 2005	21-December 2005
<b>2</b>	The Practical Workshop in Bioassays for Developing and Screening of New Cancer Chemoprevention Drugs	National Research Center (NRC), Giza, Egypt.	26-February 2006	27-February 2006
<b>3</b>	The 1 <sup>st</sup> Workshop in Gel-Electrophoresis as Basic Technique for Molecular Biology	Department of Botany & Microbiology, Faculty of Science, Helwan University, Cairo, Egypt.	10-April 2007	11-April 2007
<b>4</b>	Developing A Personality of Leadership Workshop	Faculty of Commerce, Helwan University, Zamalek, Cairo, Egypt.	29-October 2014	-----
<b>5</b>	Polymeric (organic) nanoparticles synthesis workshop by NNN.	Nakaa foundation, Cairo, Egypt.	17-December 2016	

**Courses:**

	<b>Name of Courses</b>	<b>Place</b>	<b>From</b>	<b>To</b>
<b>1</b>	Course of Preparing of the University Teacher	Faculty of Commerce, Helwan University, Zamalek, Cairo, Egypt.	2- July 2006	12- July 2006

**Awards Received:**

1. [September 2001] *a shield* from Egyptian Syndicate of Scientific Professions.

2. [October 2003] *a medal* from Helwan University for being the premium of the chemistry department during the collage study.
3. [December 2013] *a prize* for the best Ph.D thesis in The 11<sup>th</sup> Annual Congress of Medical Sciences, National Research Center.

**Attendance of Faculty and Leadership Development Project (FLDP):**

	<b>Training Program</b>	<b>Place</b>	<b>From</b>	<b>To</b>
<b>1</b>	The Scientific Searching	Faculty of Science, Helwan University, Cairo, Egypt.	20-June 2005	23-June 2005
<b>2</b>	The Effective Teaching	Helwan University, Cairo, Egypt.	16-July 2006	19-July 2006
<b>3</b>	The Critical Hours	Guest House, Helwan University, Cairo, Egypt.	27- January 2008	29- January 2008
<b>4</b>	Using Technology in Teaching	Helwan University, Cairo, Egypt.	3-February 2008	5-February 2008
<b>5</b>	Organization of Scientific Conferences	Guest House, Helwan University, Cairo, Egypt.	6-May 2008	7-May 2008
<b>6</b>	Quality Standards in Teaching	Guest House, Helwan University, Cairo, Egypt.	11-May 2008	13-May 2008
<b>7</b>	The Scientific Paper	Guest House, Helwan University, Cairo, Egypt.	18-May 2008	20-May 2008
<b>8</b>	The universal Administration	Guest House, Helwan University, Cairo, Egypt.	2-July 2013	4-July 2013
<b>9</b>	How to compete for a research fund	Guest House, Helwan University, Cairo, Egypt.	9- August 2015	10- August 2015
<b>10</b>	Conference Organization	Guest House, Helwan University, Cairo, Egypt.	11- August 2015	12- August 2015



**References:**

Available Upon Requested.