**CURRICULUM VITAE**

Eman Magdy Mohamed Radwan

**Contact info:**

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**Current position:**

Lecturer- Department of Medical Biochemistry - Assiut University- Egypt.

**Personal information:**

1) Gender: female

2) Citizenship: Egypt

3) Date of birth: 24/7/1982.

4) Maritul status: married

**Degrees:**

**2003** B.Ch degree

School of Pharmacy, Assiut University, Egypt.

Grade: Excellent with honors.

**2008** First part of master degree in Biochemistry studying Advanced Statistics

and Computer, Research Methodology and Medical Ethics

Grade: Excellent

**2009** Second part of master degree in Biochemistry studying Metabolism,

Signal transduction and Molecular Biology.

**2010** Master of Science (M.Sc) in Medical Biochemistry

Title of thesis (role of Adiponectin in type 2 diabetes Mellitus).

Department of Medical Biochemistry, School of Medicine, Assiut University, Egypt

Grade: Excellent

**2013** Passed advanced biochemistry courses for first part doctorate degree.

**2017** Doctoral Degree. Ph.D in Medical Biochemistry, Department of Medical

Biochemistry, School of Medicine, Assiut University, Egypt.

Title of thesis (Immune cells and vascular complications in hypertension).

**Academic appointments:**

1/2004 -11/2010 Demonstrator at the department of Medical Biochemistry,

School of Medicine, Assiut University, Egypt

1/ 2011 Assistant lecturer, Department of Medical Biochemistry,

School of Medicine, Assiut University, Egypt.

6/ 2015-6/2017 Research Scholar- Department of Physiological Sciences,

Eastern Virginia medical School, VA, USA.

11/2017 Lecturer- Department of Medical Biochemistry,

Assiut University, Egypt.

**Teaching Experience:**

**(2004-2015)** **(2017-2018)** **Lecturer of Medical Biochemistry**: School of Medicine, Assiut University.

Teaching 1st and 2nd year medical students, 3rd year pharmacy students, 1st and 2nd year veterinary medicine students, 1st and 2nd year clinical pharmacy students, 1st and 2nd year dentistry students, 1st year Malaysian dentistry students.

**Scholar ships**

Received a fully funded scholar ship from the Egyptian government to the USA for research and data gathering as a part for PhD joint supervision program.

**Research Experience and Ongoing research projects**

* My Masters work focused on the role of Adiponectin in type 2 diabetes Mellitus, various biochemical parameters were measured and compared in plasmas of diabetic patients obese and none obese, and in non-diabetic controls.
* My PhD work focused on the role of T regulatory immune cells in hypertension and cardiovascular dysfunction.
* Participated in a project involving different biochemical effects of bisphenol A in various rats organs.
* Participated in a project involving the essential role of smooth Muscle STIM1 in hypertension and cardiovascular dysfunction.
* Participated in a project involving the role of IL-12 from omental fat from obese type 2 diabetic mice in vascular dysfunction.
* Participated on a project involving the essential role for interleukin-12 in microvascular endothelial dysfunction in type 2 diabetes.

**Professional Skills**

* Wire myography
* Non-invasive systolic blood pressure (NIBP) by Tail cuff method on Powerlab (8 channel Recording system, ADInstrument,) using Labchart software.
* Simple surgeries in mice as mini-osmotic pump implantation for Induction of hypertension
* Microscopy: Morphological changes in tissue sections and cells by light microscopy; Ultra structural damage and organelle staining by electron microscopy.
* Worked on different animal strains as Wistar, Sprague-Dawly (Rats), C57, db/db, mutant and knock out strains of mice as Stim1SMC**-/-, IL-12-/-, db-/db-IL-12-/-, CHOP-/-, and db-/db-CHOP-/-** mice
* Drug Administration: Pharmacological treatments for rodents for both acute and chronic period (IV/IP/SC/Alzet pump).
* Protein measurement, Western blot.
* Immunoprecipitation, Immunohistochemistry fibrosis, calcification
* Cell culture techniques [Smooth muscle cells and endothelial cells ]: culturing, maintenance, cell death/viability assays.
* total RNA extraction and real-time PCR
* ELISA and multiplex assays.
* Isolation of t regulatory cells from vital organs (e.g. spleen and mesentry) of mice.
* Flow cytometry
* Enzymatic function and Cytokine assays.
* Others include good research and communication skills, good organizational and problem solving skills.
* Competent in using softwares as follows: Office, ImageJ, GraphPad Prism, Endnote and origin.
* Writing manuscripts.
* Measurement of Reactive Oxygen Species in the Culture

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**Publications**

1. “Role of Adiponectin in type 2 diabetes Mellitus”, A. M. El-Nuweihy, N. T. El-Melegy, N. F. Ameen and E. M. Radwan, , Bulletin of pharmaceutical sciences, Eman Magdy Mohamed Radwan, 33- part 2, 107-120, December, 2010
2. Essential Role of Smooth Muscle STIM1 in Hypertension and Cardiovascular Dysfunction”, Kassan M, Ait aissa k, Radwan E, Mali V, Haddox S, Trebak M, Matrougui K. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016.
3. Abstract 15819: Immune Regulatory T Cells Improve Vascular Function Through the Inhibition of Autophagy in Established Hypertension Eman Radwan, Vishal Mali, Mohamed Trebak and Khalid Matrougui Circulation. 2016;134:A15819.
4. “Role of IL-12 from omental fat from obese type 2 diabetic mice in vascular dysfunction” Kassan M, Radwan E, Ait aissa k, Mali V, Haddox S, Trebak M, Matrougui K ( under revision).
5. “Essential role for interleukin-12 in microvascular endothelial dysfunction in type 2 diabetes”, Eman Radwan, Vishal Mali, Samuel Haddox, Mohamed Trebak, Souad Belmadani, Khalid Matrougui ( under preparation).

**Postgraduate training courses and workshops:**

1- How to compete for a research fund, Assiut University, Egypt.

2- International publishing of research, Assiut University, Egypt.

3- Research Ethics, Assiut University, Egypt.

4- Code of ethics, Assiut University, Egypt.

5- The first scientific congress of medical biochemistry, Assiut University, Egypt.

6- The second scientific congress of medical biochemistry, Assiut University, Egypt.

7- How to properly write a scientific project, Assiut University, Egypt.

8- Optimization and Bioinformatics of PCR workshop. Assiut University, Egypt.

9- E-learning, Assiut University, Egypt.

10- Credit hour system, Assiut University, Egypt.

11- Two Annual conferences (2012,2013) for the faculties of medicine, Assiut , Egypt.

**Languages Spoken:**

1- Arabic (1st language).

2- English (fluent).