

## CV

**RABAB FAWZY SALIM BAILOUMY**

**Professor of medical Biochemistry and Molecular Biology**

**Faculty of Medicine, Benha University**

### 1. Personal data

|                                   |                                                                                                                            |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Name (Arabic)                     | رباب فوزى سالم بيومى                                                                                                       |
| Name (English)                    | Rabab Fawzy Salim Baioumy                                                                                                  |
| Department                        | Medical Biochemistry & Molecular Biology                                                                                   |
| College                           | Faculty of Medicine- Benha University                                                                                      |
| Academic degree                   | MD in Medical Biochemistry and Molecular Biology                                                                           |
| Office Address                    | Faculty of Medicine- Benha University                                                                                      |
| Mobile 1                          | 0096891784840, 0096898582143                                                                                               |
| Home phone                        | 00201097891084,002001023787087                                                                                             |
| Email (university)                | <a href="mailto:rabab.salim@fmed.bu.edu.eg">rabab.salim@fmed.bu.edu.eg</a>                                                 |
| Email (alternative)               | <a href="mailto:Tohamy24@yahoo.com">Tohamy24@yahoo.com</a><br><a href="mailto:Rabab.bio@yahoo.com">Rabab.bio@yahoo.com</a> |
| Recent Photo<br>(passport format) |                                         |

### 2. Education:

| Institution                                    | Degree obtained                                                | Year |
|------------------------------------------------|----------------------------------------------------------------|------|
| Faculty of Medicine - Benha University         | M.D. of Medical Biochemistry & molecular Biology               | 2011 |
| Faculty of Medicine - Benha University         | M. Sc. of Medical Biochemistry& molecular Biology<br>Very good | 2007 |
| Benha Faculty of Medicine - Zagazig University | M. B. B. Ch.<br>Very good                                      | 2002 |

|                           |                                   |
|---------------------------|-----------------------------------|
| <b>General specialty</b>  | Medical Biochemistry              |
| <b>Specific specialty</b> | Molecular Biology & Biotechnology |

### Language skills:

| Language | Reading   | Speaking      | Writing   |
|----------|-----------|---------------|-----------|
| Arabic   | Excellent | Mother tongue | Excellent |
| English  | Excellent | Very good     | Excellent |

### 3. POSITIONS

| Position | Date From - to               | Organization                                             | Country | Position                      | Role                                                           |
|----------|------------------------------|----------------------------------------------------------|---------|-------------------------------|----------------------------------------------------------------|
| 1.       | 1/2/2023<br>present          | Faculty of Medicine-<br>Benha<br>University              | Egypt   | professor                     | Research<br>Teaching<br>Supervisor for<br>medical thesis       |
| 2.       | 31/5/2017<br>To<br>31\1\2023 | Faculty of Medicine-<br>Benha<br>University              | Egypt   | Associate<br>professor        | Research<br>Teaching<br>Supervisor for<br>medical thesis       |
| 3.       | 18/8/2011<br>to<br>30/5/2017 | Faculty of Medicine-<br>Benha<br>University              | Egypt   | Lecturer                      | Research<br>Teaching<br>Supervisor for<br>medical thesis       |
| 4.       | 23/9/2013<br>To<br>16/8/2015 | Faculty of medicine,<br>Northern<br>Border<br>University | KSA     | Assistant<br>professor        | Research<br>Teaching<br>Supervisor for<br>medical thesis       |
| 5.       | 2011                         | Faculty of Medicine-<br>Benha<br>University              | Egypt   | Consultant of<br>biochemistry | Consultant of<br>biochemistry in<br>faculty of<br>medicine lab |
| 6.       | 21/11/2007-                  | Faculty of                                               | Egypt   | Assistant                     | Research                                                       |

|    |                         |                                                |       |                         |                                                |
|----|-------------------------|------------------------------------------------|-------|-------------------------|------------------------------------------------|
|    | 31/7/2011               | Medicine-<br>Benha<br>University               |       | lecturer                | Teaching                                       |
| 7. | 5/5/2004-<br>20/11/2007 | Faculty of<br>Medicine-<br>Benha<br>University | Egypt | Demonstrator            | Research<br>Teaching                           |
| 8. | 1/3/2004-<br>4/5/2004   | Ministry of<br>Health                          | Egypt | General<br>Practitioner | Physician                                      |
| 9. | 1/3/2003-<br>28/2/2004  | Benha<br>University<br>Hospital                | Egypt | House Officer           | To be clinically<br>trained in the<br>hospital |

#### 4. Activities in faculty/university/community service:

| Name of Activity Service                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. A member and vice technical manager of molecular biology and biotechnology lab accreditation project of the faculty according to ISO/IEC15189.</li> <li>2. A member and vice technical manager of biochemical &amp; endocrinology lab of the faculty (2011-2019).</li> </ol> |

#### List of Publications (Authors, Title, Journal/Conference name, pages from to, year, link to full paper)

1. Hajer A Al Saihati , Arigue A Dessouky , **Rabab F Salim** , Islam Elgohary , Mohamed El-Sherbiny , Fares E M Ali , Mahmoud M A Moustafa , Dalia Shaheen , Nicholas Robert Forsyth , Omnia A Badr , Nesrine Ebrahim (2024): MSC-extracellular vesicle microRNAs target host cell-entry receptors in COVID-19: in silico modeling for in vivo validation. stem Cell Res Ther, Sep 20;15(1):316.

2. Nesrine Ebrahim , Heba Elsayed Abd El-Halim , Omayma Kamel Helal , Nahla El-Eraky El-Azab , Omnia A.M. Badr , Amira Hassouna , Hajir A.Al Saihati , Nashwa Hassan Aborayah , Hanan Tawfeek Emam , Hend S. El-wakeel , Mohammad Aljasir , Mohamed El-Sherbiny, Naglaa A.S. Sarg, Gehan Ahmed Shaker, Ola Mostafa, Dina Sabry, Marwa Abdel Kader Fouly, Nicholas Robert Forsyth, Nehal M. Elsherbiny, **Rabab F. Salim (2022)**: Effect of bone marrow mesenchymal stem cells-derived exosomes on diabetes-induced retinal injury: Implication of Wnt/ b-catenin signaling pathway. Biomedicine & Pharmacotherapy Volume 154, October 2022, 113554.
3. Nesrine Ebrahim, Hajir A Al Saihati, Amani Shaman, Arigue A. Dessouky, Ayman Samir Farid, Noha I. Hussien, Ola Mostafa, Yasmin Seleem, Dina Sabry, Ahmed S. Saad, Hanan Tawfeek Emam, Amira Hassouna, Omnia A.M. Badr, Bayan A. Saffaf, Nicholas R. Forsyth and **Rabab F. Salim (2021)**: Bone marrow-derived mesenchymal stem cells combined with gonadotropin therapy restore postnatal oogenesis of chemo-ablated ovaries in rats via enhancing very small embryonic-like stem cells. 2021. Stem Cell Res Ther 2021 Sep 27;12(1):517. doi: 10.1186/s13287-021-02415-5.
4. Nesrine Ebrahim, Arigue A. Dessouky, Ayman Samir Farid, Ola Mostafa, Yasmin Seleem, Dina Sabry, Ahmed Nawar, Amira Hassouna, Bayan A. Saffaf, Mohammed El-Sherbiy, Nehal El-Sherbiy and **Rabab F. Salim (2021)**: Adipose mesenchymal stem cells combined with platelet rich plasma accelerate diabetic wound healing by modulating Notch pathway. Stem Cell Res Ther 12, 392 (2021). <https://doi.org/10.1186/s13287-021-02454-y>
5. Ebrahim, Nesrine, Omnia A.M. Badr, Mohamed M. Yousef, Amira Hassouna, Dina Sabry, Ayman S. Farid, Ola Mostafa, Hajir A.A. Saihati, Yasmin Seleem, Eman Abd El Aziz, Ahmed H. Khalil, Ahmed Nawar, Ahmed A. Shoulah, Mohammad Aljasir, Amira Z. Mohamed, Mohamed El-Sherbiny, Nehal M. Elsherbiny, Mohamed A. Eladl, Nicholas R. Forsyth, and **Rabab F. Salim (2021)**. "Functional Recellularization of Acellular Rat Liver Scaffold by Induced Pluripotent Stem Cells: Molecular Evidence for Wnt/B-

Catenin Upregulation" Cells 10, no. 11: 2819.  
<https://doi.org/10.3390/cells10112819>

6. **Nesrine Ebrahim, Hajir A Al Saihati, Ola Mostafa, Amira Hassouna, Sameh Abdulsamea, Eman Abd El Aziz M. El Gebaly, Nashwa Hassan Abo-Rayah, Fahad A. Alhumaydhi, Dina Sabry, Mohamed El-Sherbiny, Abdelmonem G. Madboly, Mohamed Ahmed Eladl, Omnia A.M. Badr, Nehal M Elsherbiny, Rabab F. Salim (2021).** Prophylactic evidence of MSCs-Derived Exosomes in Doxorubicin/Trastuzumab-Induced Cardiotoxicity: beyond mechanistic target of NRG-1/Erb signaling pathway. Stem Cell Res Ther. In press.
7. **Yasmeen El Sayed; Nagah Ali; Amal Elshazly; Rabab Salim; Bodour Baoumy; Heba El Noury (2021).** The Role of Vitamin D on Fluoxetine Induced Testicular Toxicity in Adult Male Rats. Mansoura Journal of Forensic Medicine and Clinical Toxicology. 29 (2) 41-56. DOI: [10.21608/mjfmct.2021.69367.1030](https://doi.org/10.21608/mjfmct.2021.69367.1030)
8. **Rabab Fawzy Salim, Ahmed Ata Sobeih, Heba Abd elkareem (2020):** Evaluation of the clinical value of circulating miR-101, miR-187 and miR-21 in neonatal sepsis diagnosis and prognosis. Egyptian journal of medical human genetics. 21:12.
9. **Rabab Fawzy Salim, Mamdouh Abadir, Lina Abdelhady, Heba Mansour (2020):** Evaluation of SIRT1 gene expression and polymorphism in coronary atherosclerosis. Jordan journal of biological sciences. 13:581-588.
10. **Naglaa Ibrahim Azab, Rabab Fawzy Salim, Mohamed Saeed Darwish (2017):** Study of thrombophilic gene polymorphisms in Egyptian patients with deep venous thrombosis using in situ hybridization technique. Bulletin of Egyptian society for physiological sciences.
11. **Naglaa Ibrahim Azab, Rabab Fawzy Salim, Amal Mahmoud Elsafy Elshazly, Mohamed A. Hadi Farag, Tamer Assar (2017):** Validity of real time PCR in preimplantation gender determination for single human blastomere. Bulletin of Egyptian society for physiological sciences.
12. **Rabab Fawzy Salim, Tohamy G Tohamy, Basant M Elnady (2017):** miR-146a and TLR4 gene expression in predicting rheumatoid arthritis disease activity. Egyptian journal of biochemistry and molecular biology.

13. **Rabab Fawzy Salim, Ahmed F Salim (2017):** endothelial nitric oxide regulating genes as predictors for coronary atherosclerotic plaque burden. Bulletin of Egyptian society for physiological sciences.
14. **Reda Sanad Arafa, Ghada Saad Abdelmotaleb, Raneyah Hamdy Shaker, Inas Abdulmonem Elsayed, Rabab Fawzy Salim Baoumy and Nesreen Mohamad Zain El Dean (2016):** Seroprevalence of Measles, Rubella, Mumps and Varicella Specific Antibodies in Primary School Children. World family medicine journal;14 (1).
15. **Naglaa Ibrahim Azab, Rabab Fawzy Salim, Mohamed A. Hadi Farag (2016):** Comparative Value of Real Time and Conventional PCR in Antenatal Gender Determination. Bulletin of Egyptian society for physiological sciences.
16. **Mona Abd EL Zaher El Shemy, Naglaa Ibrahim Azab, Rabab Fawzy Salim (2016):** Zinc oxide: the hidden danger
17. **Afaf Taha Ibraheim, Doaa Shams El Deen Ghorab, Naglaa Ibrahim Azab, Rabab Fawzy Salim (2016):** Evaluation of t (14;18)(q32;q21) and BCL2 protein expression and their prognostic role in follicular lymphoma. Bulletin of Egyptian society for physiological sciences.
18. **Abd Elhamid Elhamshary, Rabab Fawzy Salem Bayoumy and Mohammed Elsayed Abd Elnaby Nawaya (2015):** Circulating level of inflammation-associated miR-155 and endothelial enriched miR-126 in patients with end stage renal disease on regular haemodialysis. Journal of American science.
19. **Azab N.I., Al Kholy A. F., Salem R. F., Gabr H., El Abd A. M (2011):** Comparison Between Bone Marrow Derived Mesenchymal Stem Cells And Hematopoietic Stem Cells In B-Islet Transdifferentiation. Stem Cell;2 (1):1-10.
20. **Mohamed M Hafez<sup>1\*</sup>, Sabry M Shaarawy<sup>1</sup>, Amr A Hassan<sup>2</sup>, Rabab F Salim<sup>2</sup>, Fatma M Abd El Salam<sup>2</sup> and Amal E Ali<sup>2</sup>(2007):**Prevalence of transfusion transmitted virus (TTV) genotypes among HCC patients in Qalubia governorate. Virology Journal, 4:135 doi:10.1186/1743-422X-4-135
21. **Ola G. Behairy , Osama I. Mohammad, Rabab F. Salim, Ahmad A. Sobeih (2021).** A study of nasal epithelial cell gene expression in a sample of mild to severe asthmatic children and healthy controls. Egyptian journal of medical human genetics. In press.

### Areas of research

- Stem cells
- Genotyping
- MicroRNA expression
- Gene expression

### PhD/MSc Supervision

| Title                                                                                                | PhD/MSc | Year completed / in |
|------------------------------------------------------------------------------------------------------|---------|---------------------|
| MicroRNA Expression is reduced in chronic renal failure patients                                     | M.Sc    | 2017                |
| Study of epigenetic markers of hepatocellular carcinoma on top of hepatitis C virus ( genotype 4)    | M.Sc    | 2018                |
| Preimplantation and prenatal sex determination by PCR                                                | M.Sc    | 2019                |
| Evaluation of SIRT1 gene expression and polymorphism in coronary atherosclerosis                     | MD      | 2020                |
| Value of some miRNAs as potential molecular biomarkers in diagnosis and prognosis of neonatal sepsis | M.Sc    | 2021                |
| Value of VANIN-1 expression in discriminating pediatric asthma corticosteroid treatment response     | M.Sc    | 2023                |

### **Attended Workshops, Symposiums, and Conferences:**

| <b>Name of Workshops, Symposiums, and Conferences</b>                                                                                                | <b>Year</b>  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 1. Conference and workshop on “ <b>Stem cell between reality and dreams</b> ”                                                                        | April 2021   |
| 2. Workshop " <b>Real time PCR: principles and clinical applications</b> " Molecular Biology Unit -Benha Faculty of Medicine                         | October 2020 |
| 3. Scientific Meeting “Update of H1N1 Molecular Biology Unit Faculty of Medicine Benha University , EGYPT                                            | 2019         |
| 4. Conference of stem cell "New horizons on stem cell therapy"                                                                                       | 2018         |
| 5. Conference of Egyptian society of Biochemistry and Molecular Biology; "Biochemistry and Molecular Biology Present and Future"                     | April 2017   |
| 6. Annual conference of Benha faculty of medicine "The Annual Medical Congress of Benha Faculty of Medicine at Grand Ceremony Hall, Benha University | 2017         |
| 7. Workshop on institutional self-Evaluation for Higher Education                                                                                    | 2017         |

### **PROFESSIONAL TECHNIQUES AND AREA OF EXPERTISE:**

- DNA and RNA extraction
- Conventional PCR
- Real Time PCR (TaqMan technology and Syber green)
- Biochemical laboratory investigations for example: liver functions, kidney functions, lipid profile, blood sugars, serology, ect...
- Enzyme linked immuno-sorbent assay (ELISA)
- Spectrophotometry
- Stem cells (isolation & culture)

### **COMPUTER, IT AND STATISTICAL SKILLS:**

Computer certification (Word, Windows, Excel, Power Point, internet, information technology).

## السيرة الذاتية

### الخاصة بالدكتورة / رباب فوزى سالم بيومى

أستاذ الكيمياء الحيوية الطبية والبيولوجيا الجزيئية

بكلية الطب البشري جامعة بنها

=====

**الاسم:** د/ رباب فوزى سالم بيومى

**تاريخ الميلاد:** 21/11/1977 م.

**سنة التخرج:** ديسمبر 2002

**المؤهلات العلمية و التدرج العلمي:**

1- بكالوريوس الطب والجراحة دور ديسمبر 2002 من كلية الطب البشري جامعة

الزقازيق فرع بنها بتقدير عام جيد جدا مع مرتبة الشرف.

2- ماجستير فى الكيمياء الحيوية الطبية من كلية الطب البشري جامعة بنها دور مايو

2007 بتقدير جيد جدا

3- دكتوراه فى الكيمياء الحيوية الطبية من كلية الطب البشري جامعة بنها 2011

**التدرج الوظيفى والعلمى:**

1- طبيب امتياز من مارس 2003 حتى فبراير 2004

2- تكليف بوزارة الصحة من مارس 2004 حتى 4/5/2004

3- معيد بقسم الكيمياء الحيوية الطبية بكلية الطب البشري جامعة الزقازيق فرع بنها من

5/5/2004

4- مدرس مساعد بقسم الكيمياء الحيوية الطبية بكلية الطب البشري فرع بنها من

21/11/2007

5- مدرس بقسم الكيمياء الحيوية الطبية بكلية الطب البشري جامعة بنها من 18/8/2011

6- استشاري الكيمياء الحيوية الطبية بمعمل كلية الطب البشري للتحاليل الطبية جامعة بنها

7- أستاذ مساعد الكيمياء الحيوية الطبية بكلية الطب البشري جامعة الحدود الشمالية

بالمملكة العربية السعودية من 23/9/2013 وحتى 16/8/2015

تليفون: 0096891784840

00201097891084

البريد الإلكتروني: rabab.bio@yahoo.com

أستاذ مساعد الكيمياء الحيوية الطبية بكلية الطب البشري جامعة بنها من 31/5/2017 - 8  
وحتى 31/1/2023

أستاذ الكيمياء الحيوية الطبية بكلية الطب البشري جامعة بنها من 1/2/2023 وحتى 9-  
تاريخه.

### العضوية في اللجان:

1. عضو سابق في وحدة كيمياء الغدد الصماء- كلية الطب جامعة بنها وحاليا نائب المدير التنفيذي بها
2. عضو في وحدة البيولوجيا الجزيئية والتكنولوجيا الحيوية - كلية الطب جامعة بنها.
3. عضو الجمعية المصرية للكيمياء الحيوية والبيولوجيا الجزيئية
4. نائب المدير الفني في مشروع اعتماد وحدة البيولوجيا الجزيئية و التكنولوجيا طبقاً لمتطلبات المواصفة القياسية 15189ISO/IEC  
و تمت الموافقة عليه من قبل مشروع اعتماد معامل بمؤسسات التعليم العالي وحدة إدارة مشروعات التطوير - برنامج التطوير المستمر والتأهيل للاعتماد بالتعليم العالي و جاري حاليا العمل بالمشروع.

مجال التخصص: الكيمياء الحيوية الطبية و البيولوجيا الجزيئية

التخصص الدقيق: البيولوجيا الجزيئية و الخلايا الجذعية و النانو تكنولوجيا في هذه المجالات

المهام العلمية التي شارك فيها بالخارج: أستاذ مساعد الكيمياء الحيوية الطبية بكلية الطب البشري جامعة الحدود الشمالية بالمملكة العربية السعودية.

