

RACHA AL-KHOURY, M.Sc.

Nationality: Canadian
Date of birth: 02/01/1984
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EDUCATION:

2007- 2010

Masters Degree (M. Sc) in Biochemistry at Montreal University, Montreal, Canada.

2001-2006

Bachelor of Science (Specialization in Biochemistry), McGill University, Montreal, Canada.

2000-2001

High School Diploma, Al-Mawakeb School, Dubai. UAE.

SUMMARY OF EXPERTISE:

Sept. 1, 2023-Present:

- **Head of Peer Tutoring/ Advising Office**, under Students Success Hub, Deanship of academic Support Services, UoS.

Sept. 2010-Present:

- **Lecturer:** Teaching Theoretical and practical courses in most life science disciplines in the Biotechnology Program of the Department of Applied Biology and in the Department of Chemistry at University of Sharjah: such as Remedial Biology, General Biology Lab, General Chemistry Lab for Health Sciences, Molecular Genetics Lab, Molecular Biology Lab, Biochemistry Lab, Plant Biotechnology Lab, Protein Biochemistry & Engineering Lab.
- **Member and Representative** of several University of Sharjah, College of Sciences as well as departmental committees.
- **Senior Research Expert** directing senior students in their research projects.

2006-2008:

- Attended IRCM (**Institute de Recherches Cliniques de Montréal**) as a **graduate student** to obtain a Masters degree in biochemistry, in the Gene Transcription and Proteomics Laboratory.

TEACHING EXPERIENCE:

- Currently working as a **lecturer** at University of Sharjah. As the **Coordinator** of theoretical as well as several lab courses including Remedial Biology, Molecular Biology Lab and General Biochemistry Lab. My responsibilities include preparing lectures and teaching material, Syllabi, manuals, experiments for the labs, exams as well as preparing course reports.
- **Senior Research Expert**, my responsibilities include co-supervising and directing, together with the main supervisor, the progress of the graduating students' project, whether through discussing ideas or techniques.

COURSES TAUGHT:

- Remedial Biology (1450099)
- Molecular Biology Lab (1450452)
- Plant Biotechnology (1450421)
- Protein Biotechnology & Engineering (1450453)
- Molecular Genetics (1450342)
- General Biochemistry Lab (1450352)
- General Biology Lab (1450107)
- General Chemistry Lab For Health Sciences (1420155)
- General Chemistry Lab for engineering (1420102)

PUBLICATIONS

1. El-Keblawy, A., S. Soliman, **R. Al-Khoury**, A. Ghauri, H. Al Rammah, S.E. Hussain, S. Rashid and Z. Manzoor (2018). *Effect of light and temperature during seed maturation on germination response to temperature and light quality of Citrullus colocynthis* from the Arabian deserts. *Plant Biology* (2019) 21 (2).
2. Ismail Saadoun, Ban Al-Joubori & **Racha Al-Khoury**: Testing of Production of Inhibitory Bioactive Compounds by Soil Streptomyces as Preliminary Screening Programs in UAE for Anti-Cancer and Anti-Bacterial Drugs. Testing of Production of Inhibitory Bioactive Compounds by Soil Streptomyces as Preliminary Screening Programs in UAE for Anti-Cancer and Anti-Bacterial Drugs. *International Journal of Current Microbiology and Applied Sciences*; (2015) 4(3): 446-459.
3. Andree-Anne Lacombe, Diane Forget, Philippe Cloutier, **Racha Al-Khoury**, Annie Bouchard, Mathieu Lavallee-Adam, Celia Jeronimo, Jacques Archambault, Mathieu Blanchette, Benoit Coulombe: Nuclear import of RNA polymerase II requires the conserved GPN-loop GTPase XAB1/GPN1. *FASEB J.* April 2010; 24.
4. Diane Forget, Andre´ e-Anne Lacombe, Philippe Cloutier, **Racha Al-Khoury**, Annie Bouchard, Mathieu Lavallee´ e-Adam, Denis Faubert, Ce´lia Jeronimo,

Mathieu Blanchette, Benoit Coulombe. The Protein Interaction Network of the Human Transcription Machinery Reveals a Role for the Conserved GTPase RPAP4/GPN1 and Microtubule Assembly in Nuclear Import and Biogenesis of RNA Polymerase II. **Mol Cell Proteomics 2010 9: 2827-2839.**

5. **Racha Al-Khoury**, Benoit Coulombe. Defining protein interactions which regulate disease progression. *Expert Opinion on Therapeutic Targets*; 13(1): 13-17 (2009).
6. Philippe Cloutier, **Racha Al-Khoury**, Mathieu Lavallée-Adam, Denis Faubert, Heng Jiang, Christian Poitras, Annie Bouchard, Diane Forget, Mathieu Blanchette, Benoit Coulombe. High- Resolution Mapping of the Protein Interaction Network for the Human Transcription Machinery and Affinity Purification of RNA polymerase II- Associated Complexes. *Methods*; 48(4): 381-386 (2009).
7. Benoit Coulombe, Philippe Cloutier, Céilia Jeronimo, **Racha Al-Khoury**, Mathieu Lavallée-Adam, Mathieu Blanchette and Diane Forget. High-precision mapping of the protein interaction network for the human transcription machinery reveals a novel class of cellular regulatory factors. *The FASEB Journal*. 2008;22:795.1.

MANUALS:

1. General Biochemistry Lab Manual (1450352). **Racha AL-Khoury**
2. Molecular Biology Lab Manual (1450452). **Racha Al-Khoury**
3. Plant Biotechnology Lab Manual (1450421). **Racha Al-Khoury** & Tasnim Obaid
4. Molecular Genetics Lab Manual (1450342). **Racha Al-Khoury** & Tasnim Obaid.
5. General Biology Lab Manual (1450107). **Racha Al-Khoury**, Ban Al-Joubori, Ismail Saadoun & Moslih Al-Moslih.
6. Research Project Manual. Prof. Ismail Saadoun, **Racha Al-Khoury**

TECHNICAL SKILLS:

Management/Administrative and Communication:

- Effective planning, multi-tasking and organizational skills.
- Supervised students' research projects.
- Budgeting and purchasing.
- High-level written and presentational skills.
- Conducted, coordinated and planned seminars and workshops.
- Writing research papers.
- Strong knowledge of a range of Microsoft applications, including Word, Access, Excel, PowerPoint, and Photoshop, Blackboard and WebCT.

Health and Safety

- Member of University of Sharjah Safety Committee since September 2015.
- Detailed knowledge and understanding of the Workplace Health and Safety Act.

- Identifying Workplace Health and Safety training needs in conjunction with the Learning and Development Advisor and assisting in the implementation and delivery of statutory and non-statutory training programs.

Laboratory Techniques: Include Chemistry, Biochemistry, Cell Culturing, Molecular Biology, Protein Biotechnology and Plant Biotechnology techniques.

- Tandem Affinity Purification: purification of interacting proteins from mammalian cell
- SDS-PAGE
- Western blotting
- Cloning and gene Expression
- Enzyme Kinetics / Spectrophotometry
- Animal cell culturing
- Recombineering
- PCR, RT-PCR, primer design, gel; electrophoresis
- Thin-layer Chromatography
- Bioinformatics
- Aseptic microbiological plating, culturing and staining techniques
- DNA, RNA and protein extraction and quantification
- Plant Tissue culturing (Media preparation, Seed germination, Sterilization techniques, Organogenesis, Response to growth hormones, Agrobacterium Transformation)

Awards, Recognitions and certificates:

- Certificate of Recognition for outstanding contribution as member of the Organizing committee of Sharjah International Conference on Physics of Advanced Materials (SICPAM), April 25-27, **2023**.
- Dean's Distinguished Faculty, Certificate of Appreciation for contribution in the College of Sciences at UoS, June 12, **2022**.
- Certificate of Appreciation for contribution in the College of Sciences at UoS, June 13, **2020**
- Certificate of Appreciation from Emirate of Sharjah Innovation Committee for involvement in Sharjah Innovation, Feb 08-14, **2020**.
- Certificate of Completion of "Flipped Classroom" training workshop, March 26-28, **2018**.
- Certificate of Appreciation on behalf of UoS for involvement in the organization of The 3rd International Conference on Arabs' and Muslims' History of Sciences (ICHS17), December 5-7, **2017**.