

Josephine Bou Dagher

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EDUCATION

- **PhD in Neuroscience (Fall 2015 - Present)**

Department of Biomedical and Health Science Inst (BHSI)
University of Georgia (UGA),
Athens, Georgia State, United States of America

- **Masters in Neuroscience (Fall 2009 - Summer 2013)**

Department of Anatomy, Cell Biology and Physiology
American University of Beirut (AUB), Lebanon

Thesis : Molecular and structural substrates of the neurotoxic effects of lidocaine injection in the brainstem rostral ventro-medial medulla – AUB (October 2013)

- **Bachelor of Science – B.S in Biology (Fall 2006- Spring 2009)**

American University of Beirut (AUB), Lebanon
(Dean's Honor List 2009)

- **Lebanese Baccalaureate - Life Sciences with honors (1991-2006)**

Jesus and Mary School, Rabweh, Lebanon
(Award of Distinction – 2004/2005)

PROFESSIONAL EXPERIENCE

- **Teaching Assistantship (Fall 2018)**

University of Georgia – Department of Psychology
Course : Psychopharmacology (PSYC 5850)

- **Teaching Assistantship: Instructor of Record (Summer 2018)**

University of Georgia – Department of Psychology
Course : Sensation and Perception (PSYC 4120)

- **Teaching Assistantship (Fall 2017 – Spring 2018)**

UGA – Department of Cellular Biology
Course : Anatomy and Physiology II (CBIO 2210)

- **Graduate Assistantship (Spring 2016-Spring 2017)**

UGA – Department of Physiology and Pharmacology

- **Research Assistantship : Part Time (April 2014- August 2014)**

AUB – Medical Center -Department of Anatomy, Cell Biology and Physiology

- **Graduate Assistantship: Compensation for 6 credit hours per semester of Graduate studies in Neuroscience (2009-2013)**

AUB – Department of Anatomy, Cell Biology and Physiology

PUBLICATIONS

Review Article

- **Regulator of G-protein Signaling (RGS)1 and RGS10 Proteins as Potential Drug Targets for Neuroinflammatory and Neurodegenerative Diseases.**

Lee JK, Bou Dagher J.

The AAPS journal. 2016 ; PubMed PMID: 26902301

Book Chapter

- **Chapter: Regulator of G-protein Signaling 1 (RGS1)**

Bou Dagher J., Lee JK

Encyclopedia of Signaling Molecules, Second Edition

May 2017

DOI: 10.1007/978-1-4614-6438-9_101824-1

Database Entries

- **R4 family: regulator of G-protein signaling**

Josephine Bou Dagher, Jae-Kyung Lee

IUPHAR/BPS Guide to PHARMACOLOGY, May 2017

<http://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=2804>

PUBLISHED ABSTRACTS

- **The Effect of a High-Fat Diet and Green Tea Extract on Glucose Metabolism and Inflammation in Regulator of G protein Signaling 10 Knockout Mice.** Hea Jin Park, Erik Olsen, Xi Fang, Josephine Bou Dagher, Jaegwon Chung, Se Joong Kang and Jae-Kyung Lee. *The official Journal of the Federation of American Societies for Experimental Biology (The FASEB Journal)*, April 2017
- **Brainstem injection of lidocaine induces the activation of descending pain-inhibitory mechanisms in a rat model of mononeuropathy.** Atweh, S.F., Bou-Dagher, J., Barchini, J., Tchagchagian, S., Jabbur, S.J. and Saadé, N.E. *8th IBRO World Congress of Neuroscience*, International Brain Research Organization, Florence, Italy, July 14-18, 2011.

PRESENTATIONS

Oral Presentation :

- **Bisphenol-A and Diethylhexyl phthalate prenatal exposure followed by high fat feeding results in gender-specific metabolic alterations in rats**
Josephine Bou Dagher, Maryam H. Al Mansi, Thomas B. Rudi, Elyssa Jacob, Amrita Kaimal, Yen-Jen Chuang, Djemila McCraya , P.S. MohanKumar and Sheba M.J. MohanKumar. *2018 Regenerative Bioscience Symposium, April 2018*

Posters:

- **Gender-specific prenatal programming effect of a combination of Bisphenol-A and Diethyl hexyl phthalate on rat development.** Josephine Bou Dagher, Elyssa B Jacob, Ansley Almond, Diane Tran, Amrita Kaimal, Yen-Jun Chuang, Reza Kianian, Hannah Buechter, P.S. MohanKumar, Sheba MJ MohanKumar
GSPS Research Day , April 2018
- **Brainstem injection of lidocaine induces the activation of descending pain-inhibitory mechanisms in a rat model of mononeuropathy.** (February 2011)
The First Annual AUB Basic Biomedical Research Day
- **Lessepsian migration as an evolutionary process** (May 2009)
American University of Beirut

Seminars :

- **Epigenetic regulation of glucocorticoid receptor in human brain associates with child abuse** (February 2016) - UGA
- **Chagas Disease** (December 2008) - AUB

RESEARCH EXPERIENCE

Laboratory and Research Skills:

- Statistical analysis
- Research Design
- Literature Review
- Data Collection and Processing
- Analytical Reasoning and Evaluation Methods

Lab Techniques :

Pain Test, Perfusion, qPCR, Western Blot, RNA / DNA / Protein extraction and quantification, Immunofluorescence, Confocal Microscopy, Gel Electrophoresis, ELISA, Preparation of single-cell suspensions, Flow cytometry, Cell culture, Histological techniques, Stereotaxic surgery, Stress related behavioral tests : Shock Probe Defensive Burying Test, Elevated Plus maze, Open Field Test.

Seminars Attended (*Certificate available upon request*)

- **Visceral Pain: The Point of View of the Specialist** (*March 2013*)
Lebanese Society for the Study of Pain (LSSP) scientific meeting
- **Neuropathic Pain: A challenge for the Patient and the Physician** (*January 2012*)
Lebanese Society for the Study of Pain (LSSP) scientific meeting
- **Update on Treatment of Headaches** (*October 2010*)
Lebanese Society for the Study of Pain (LSSP) scientific meeting

Workshops and Conferences attended

- **MEMA - 46th Middle East Medical Assembly** (*May 2013*) - AUB
- **The First Annual AUB Basic Biomedical Research Day** (*February 2011*) - AUB
- **Volunteers Orientation Workshop: Children's Cancer Center of Lebanon (CCCL)** - (*June 2010*) - *St. Jude's Center*

Health and Safety Training : (*Certificate available upon request*)

- **Biosafety Practices and Procedures in BSL2 labs** (*September 2016*) – UGA
- **USG Ethics Basic Course – Arts and Sciences – Biosciences** (*November 2015*) - UGA
- **USG Ethics Basic Course – Arts and Sciences – Biosciences** (*September 2015*) - UGA
- **Radiation Safety Training Course for users of unsealed radioactive materials in research** (*July 2011*) - AUB Biology Teacher – International College (Ras Beirut)
- **Chemical and Biological Lab safety Training Course** (*June 2010*) - AUB
- **Red Cross - Basic First Aid Course (CPR...)** (*March 2009*)- AUB

TEACHING EXPERIENCE

University of Georgia – Teaching Assistantship (*Fall 2017 – Fall 2018*)

Department of Cellular Biology – Anatomy and Physiology Course: CBIO2210

Biology teacher – International College : Secondary School (*2011-2015*)

- **Lebanese Program** : Grade 10 (5th), Grade 11 (6th), Grade 12 (7th Life Science and 7th Economics and Sociology)
- **International Baccalaureate** : IB I and IB II (High and Standard Level)
- **Advisor**: Grade 10 (5th), Grade 12 (7th LS)

Science Teacher – Jesus and Mary School (Rabweh)

- Grade 4, Grade 5, Grade 6 (*2010-2011*)

Private Tutoring

- **Grade 3, 6 and 9 levels:** Math-Chemistry-Biology-Physics (2004-2015)
- **First secondary level:** Math - Physics - Biology (2008)
- **Second secondary level:** Biology - Chemistry (2010 - 2015)

Workshops and Conferences

- **An Introduction to Evidence-Based Undergraduate STEM Teaching CIRTLL Network Massive Open Online Courses (MOOC) (Fall 2016)**
Center for the Integration of Research Teaching and Learning (CIRTLL)
(With Distinction - Certificate available upon request)
- **Teaching with Technology**
Graduate-level CIRTLL network course (Fall 2016)
Center for the Integration of Research Teaching and Learning (CIRTLL)
(Certificate available upon request)
- **Biology Extended Essay Online Workshop (September - November 2013)**
IB Online Professional Development Team (Certificate available upon request)
- **IB Diploma Program Biology Internal Assessment English Online Workshop (September - November 2012)**
IB Online Professional Development Team (Certificate available upon request)
- **Moodle Workshop (June and November 2012)**
Dr. Mahmoud Shihab – International College
- **Triple A Learning in cooperation with the IB: An Introduction to Teaching IB DP Biology online workshop (October 2011)**
IB Online Professional Development Team (Certificate available upon request)
- **SMEC 15: The Fifteenth Annual Science and Math Educators Conference (March 2013) - AUB (Certificate available upon request)**
- **Activboard Training: Creating interactive flipcharts for lessons using Promethean ActivBoard and ActivInspire (December 2011)**
Dr. Mahmoud Shihab – International College (Certificate available upon request)

LANGUAGE

Fluent in English, French, and Arabic.

SKILLS

Computer skills:

- Microsoft Office: Microsoft Word, Excel, Power Point, Publisher
- Searching in scientific Database (PubMed – Medline...)
- GraphPad InStat
- Refworks
- Moodle
- Windows Movie Maker
- Adobe Photoshop
- ActivInspire (Interactive board)

BACKGROUND COURSES

Science Courses :

- **Graduate Courses** : Neuroanatomy , Neurophysiology , General Physiology, Histology , Metabolism, Methods in Morphology, Directed Reading and Research , Biophysics , General physiology, Research Methods, Immunology.
- **Undergraduate Courses** : Chemical Principles, Organic Chemistry, General Biology, Cell biology, Genetics, Entomology, Biology of Invertebrates, Conservation Biology, Ecology, Physics, Statistics.

Non-Science courses :

Psychology, Education, Philosophy, Phonetics, Civilization Sequence, English, Arabic.

INTERESTS AND ACTIVITIES

Music and Arts:

- **Piano Performance and singing in a choir** (1997-present)
- **Playing flute** (1998-2001)
- **Other musical courses taken at the Lebanese National Conservatory** : *Solfège, Theory, Harmony, Counterpoint, Fugue, Analyze* (1997-2006)
- **Painting and drawing** : Fabriano awards (1998 – 2003)

Volunteer work and community involvement:


- **Community Service in “Beit Chabeb”** : Accompanying and taking care of handicapped people (2014)
- **Community service in “Anta Akhi”** : Accompanying and taking care of handicapped people (2003-2004)
- **Leader in children’s summer camps**: Counselling young children (of ages 8-12) and guiding them through the projected life skills (July 2003 – present)

Memberships :

- **Lebanese Society for the Study of Pain (LSSP)** (2010 - Present)
- **Biology Student Society (BSS) - AUB** (2006-2009)
- **Blue and Green Club** (1998-2000)

REFERENCES

- **Dr. Nayef Saadeh, Professor**
Department of Anatomy, Cell Biology and Physiology
Faculty of medicine, American University of Beirut, Lebanon
Tel: 961-1-350000, Ext.4750/1
E-mail: nesaade@aub.edu.lb
nesaade@gmail.com
- **Dr. Assaad Eid, Assistant Professor**
Department of Anatomy, Cell Biology and Physiology
Faculty of medicine, American University of Beirut, Lebanon
Tel: 961-1-350000, Ext.4781
E-mail: ae49@aub.edu.lb,
- **Mrs. Rasha Daouk, Assistant to the Director**
IB DP Coordinator, Secondary School, International College, Ras Beirut
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- ***Mrs. Rita Zgheib , Secondary School Principal
Academic HR Director, Academic Supervisor, Jesus and Mary School.
E-mail: r.zgheib@jmrab.edu.lb***

 - ***Mrs. Maguy Yammine , Biology Instructor
Biology and Chemistry Coordinator, Third Secondary , Jesus and Mary School.
E-mail: m.yammine@jmrab.edu.lb***