

**Sami Azrak, PhD**  
**Al-Rweiseh, Tartus, Syria**  
**Email: sgazrak@gmail.com**  
**Home phone: (+963) 43 4116350**  
**Mobile phone: (+963) 943200350**

---



**Qualifications and Academic Background:**

- 2/2003–04/2009 **PhD degree in Molecular and Cellular Biophysics and Biochemistry (MCBB) at Roswell Park Cancer Institute (RPCI), division of State University of NY at Buffalo (SUNY)**  
Research project: Human genetic variations and cancer
- 2/2002-1/2003 **Multi-disciplinary program in the field of Bioinformatics State University of New York at Buffalo (SUNY)**  
Research Project: Evolution of eukaryotic gene structure with a focus on the origin of introns from a comparative genomics approach.
- 5/2001-8/2001 **Certificate of English Proficiency from English Language Institute State University of New York at Buffalo**
- 9/1996–5/2000 **Bachelor of Science (B.S.) in Agriculture Engineering, University of Aleppo, Syria**

**Academic ranks and administrative tasks**

**Teaching Assistant**

- 10/2013-Present **Vice Dean for administrative affairs**  
Faculty of Medicine  
Al Andalus University for Medical Sciences
- 10/2012-9/2013 **Faculty Member**  
Faculty of Medicine  
Al Andalus University for Medical Sciences
- 10/2010-2/2011 **Molecular diagnostics Laboratory at American Hospital**  
Dubai, United Arab Emirates
- 12/2009-9/2010 **Post-Doctorate Research Associate**  
Department of Biological Science Brock University, Ontario, Canada
- 4/2009-11/2009 **Post-Doctorate Research Associate**  
Roswell Park Cancer Institute, Buffalo, NY, USA (Full time)

**Publications and Scientific Achievements**

1. **Azrak S**, Liang P, Starostik P, Khoury T  
**upQMPSF quantitative assay for the detection of HER2 amplification in breast cancer patients.** USCAP 98<sup>th</sup> 2009 Unlisted States and Canadian Pathology Annual Meeting, Boston, MA (Abstract submitted).
2. **Azrak S**, DiCioccio RA, Rodabaugh K, Liang P  
**Identification of exon 15 duplication in BRCA1 in a familial ovarian cancer patient using an improved method: upQMPSF.** ASHG 57<sup>th</sup> 2007 America

## AZRAK S

Society of Human Genetics Annual Meeting, San Diego, CA, USA. (Abstract submitted).

3. **Azrak S**, Li L, Foulkes W.D, Liang P  
**Development of upQMPSF and mutation-specific multiplex PCR for detecting large germline genomic rearrangement.** ASHG 56<sup>th</sup> 2006 America Society of Human Genetics Annual Meeting, New Orleans, LA, USA. (Abstract submitted).
4. Liang P, **Azrak S**, and Dongliang Wang.  
**What is special about copy number variation regions in the human genome?** Human Genome Variation Society Special Meeting on Copy Number Change. Helsinki, Finland. 2006. (Oral presentation).
5. Liang P, Wang J, Song L, Gonder MK, Tishkoff SA, **Azrak S**  
**Intra-species genome comparison reveals 800 polymorphic Alus and dynamic Alu distributions in human genome.** ASHG 54<sup>th</sup> America Society of Human Genetics Annual Meeting, Toronto, Ontario, Canada. (Abstract submitted).

## Publications:

1. **Azrak S.** **Autosomal Dominant Disorders in Clinical Practice**, Journal of Genetics and Genetic Engineering Volume 1, Issue 1, 2019.
2. **Azrak S.** **Hereditary Ovarian Cancer And Germline Mutations**, Journal of Genetics and Genetic Engineering Volume 1, Issue 1, 2017.
3. **Azrak S**, Khalil Melli , Batool Alassar , Thaer Khoury. **The detection of HER2 Gene Amplification In Breast Cancer By upQMPSF**, Journal of Genetics and Genetic Engineering Volume 1, Issue 1, 2017, PP 16-22
4. **Azrak S.** **upQMPSF, a Method for the Detection of BRCA1 Exon Copy Number Variants.** Biochem Genet. 2015 Jun;53(4-6):141-57.
5. **Azrak S**, Ayyasamy V, Zirpoli G, Ambrosone C, Bandera EV, Bovbjerg DH, Jandorf L, Ciupak G, Davis W, Pawlish KS, Liang P, Singh K. **CAG repeat variants in the POLG1 gene encoding mtDNA polymerase-gamma and risk of breast cancer in African-American women.** PLoS One. 2012;7(1):e29548.
6. Wang J, Song L, Grover D, **Azrak S**, Batzer MA, Liang P. **dbRIP: a highly integrated database of retrotransposon insertion polymorphisms in humans.** Hum Mutation. 2006; (4):323-329.
7. Wang J, Song L, Gonder MK, **Azrak S**, Ray DA, Batzer MA, Tishkoff SA, Liang P. **Whole genome computational comparative genomics: A fruitful approach for ascertaining Alu insertion polymorphisms.** Gene. 2006; 365:11-20.

## سيرة ذاتية (C.V)



### - المعلومات الشخصية:

- الاسم: سامي جرجس ازرق

- محل وتاريخ الولادة: طرطوس 1973/2/18

- البريد الإلكتروني: [s.azrak@au.edu.sy](mailto:s.azrak@au.edu.sy)

- الهاتف المحمول: 0957696407

- اللغات: عربي/ انكليزي

### - المؤهلات والشهادات العلمية:

إجازة جامعية في الهندسة الزراعية من جامعة حلب عام 2000

دكتوراه في الفيزياء الحيوية جامعة بفالو-نيويورك في الولايات المتحدة الأمريكية عام 2009

عنوان أطروحة الدكتوراه:

تطوير طريقة upQMPSF ودراسة الطفرات الكبيرة البدائل (LGRs) في الجينات المرتبطة بالإصابة بسرطان المبيض العائلي المورث

### - المراتب العلمية والمهام الإدارية:

- مدرس في جامعة الأندلس الخاصة للعلوم الطبية. 2012

- نائب عميد كلية الطب البشري للشؤون الإدارية والطلاب في جامعة الأندلس الخاصة للعلوم الطبية

### - النشر والخبرات العلمية:

تدريس مقرري الوراثة البشرية (السنة الثانية) ومهارات التواصل (السنة الأولى)

نشر العديد من المقالات في مجلات عالمية رصينة.

### - الرؤيا:

العمل الجاد والتفاني والانجاز أساس النجاح