**Raanan Gvirtz**

14 Brandis St., Raanana Israel ● [**gvraanan@gmail.com**](mailto:gvraanan@gmail.com) ● TEL +972 547 235 150

**Summary**

I am a biologist that is interested in the field of protein studies and protein engineering. I have a vast background in protein purification and molecular biology as well as cell culturing and basic knowledge in random mutagenesis. I'm a devoted employee, I have science curiosity and a will to study new fields, I'm capable of self taught and have a long range memory, highly organized, punctuate, can deal with small details and self discipline.

**Professional Experience**

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| **DSSC – Dead sea & Arava Science Center,**   * Extensive work with cell and tissue cultures. * Evaluation of medicinal compounds with dermo-cosmetic applications   **BGU – Ben Gurion university**  **Biochemistry instructor –** Prof. Eyal Gur's Lab   * MSc: Structural approach for deciphering the interaction mode of PafA with its substrates. * Cloning, purification and crystallization of PafA & IDER for crystallography. * Measurements and detection using various methods including, spectrophotometer, AKTA ect. | **2016-today**  **2013-2015** |
| **TAU – Tel Aviv University**   * Project: cloning the Carbohydrate Binding Module 3b (CBM3b) of Acetivibrio cellulolyticus ScaA (Prof’ Lamed) | **2008-2012** |
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| **Israeli Defense Forces**   * Complete service * Cannon man in tank. * Communication warrior. | **2005-2008** |
| **Lab-work Experience** |  |

**DNA:**

* Cloning
* PCR
* Ligation PCR
* Sewing PCR
* Gibson assembly
* Transformation
* Electroporation
* Agarose gel

**Protein:**

* Protein expression: IPTG / Arabinose induced
* TEV cleavage
* Protein purification:
* Salting out
* HIS/Strap tag
* Gel filtration
* Ion exchange
* HIC
* HPLC
* Acrylamide gel
* Dialysis
* ELISA
* CASP3

**Skills and Languages**

Hebrew – Native Tongue level, English – Excellent.

**Scintific publitions**

1. Ilanit (2014) " **Structural approach for studying the interaction between PafA, the mycobacterial Pup ligase, and its protein targets** " (poster)
2. Article (10.5.2019) " **Nrf2 Activation by SK-119 Attenuates Oxidative Stress, UVB, and LPS-Induced Damage** ", **Skin pharmacology and Physiology.**