

# Curriculum Vitae

## Bara`a jarwan

Lecturer in Medicinal Chemistry at jadara University/jordan

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### ***Personal Profile***

I am bara`a jarwan from Irbid-Jordan, 30 years old, I was born at 6/10/1988 in irbid, my nationality is Jordanian. I am married and I have three childs. I am currently working as an lecturer in Medicinal Chemistry at the Faculty of Pharmacy/ Jadara university. I earned master degree in Pharmacy and Pharmaceutical Sciences with a specialization in Medicinal Chemistry from Jordan university of science and technology. Regarding research, I am interested in the biochemical evaluation in selected grape varieties grown in Jordan and determine their extracts effect on prostate cancer cells

### ***Education***

#### **2013-2017**

Master of medicinal chemistry, (average was very good)  
Faculty of pharmacy, Jordan university of science and technology, irbid, Jordan.

Thesis topic: Antioxidant Activity, Total Phenolic Content, and Liquid Chromatography-Mass Spectrometry Analysis of Resveratrol in Selected Jordanian Grape Species

Research in brief:

Grapes and its products contain high amounts of poly phenolic compounds, which are known for their profound antioxidant activities. One of the most potent antioxidants known to occur mainly in the skins and the seeds of grapes is resveratrol, which is a trans- 3,5,4'-trihydroxy stilbene with an antioxidant, anticancer, and a phytoestrogenic activities. In the current study, different cultivated grape cultivars were collected from different locations in Jordan and

evaluated for their antioxidant activities as % DPPH inhibition and total phenolic contents by using Folin–Ciocalteu colorimetric method for their seed, skin, and whole berry extracts. The total phenolic content of seed, skin, and whole berry extracts of the investigated cultivars ranged from 31.50 to 152.20, from 3.87 to 43.96, and from 3.32 to 33.74 mg GAE/g dry weight, respectively, while the total antioxidant capacity ranged from 49.75 to 91.43, from 4.48 to 49.27, and from 8.23 to 61.99 % DPPH inhibition/100 mg dry weight, respectively. Moreover, a simple, rapid, selective, and sensitive LC-MS/MS method was developed and validated according to ICH guideline for the quantification of resveratrol in seed and skin extracts. Chromatographic separation was carried out on a phenomenex C 18 column (125 mm × 4.6 mm × 5 micron) using gradient system mobile phase, CH<sub>3</sub>CN:aqueous 20 mM NH<sub>4</sub> OAC adjusted to pH 4.3 using acetic acid, with constant flow rate 400 µl/min. mass detection by electrospray ionization negative ion with multiple reaction monitoring mode. Calibration were linear over 7.8 - 900 µg/L. Intra and inter day accuracy and precision were within acceptable limits over the range. The detection limit was calculated in the low parts per billion range (1.48 µg/L) and quantitation limit was 4.49 µg/L to quantify the resveratrol content in the skin and seed extracts of grapes. Resveratrol content was ranged in seed and skin extracts from 0.011 to 11.6 and from 0.039 to 3.95, respectively. Finally, total solid soluble was measured for all cultivars juice to investigate the maturity an ripeness. The Brix degree was ranged from 5.1 to 22.2 %.

## **2006-2011**

Bachelor of Pharmacy (average was good)

Faculty of Pharmacy, Jordan University, amman, Jordan.

## ***Academic Experience***

### **2017-present**

lecturer in Medicinal chemistry teaching practical and theoritical pharmacuetical organic and medicinal chemistry, pharmacognosy and phytochemistry courses for undergraduate

Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, jadara university ,irbid, jordan.

### **2013-2015**

Teaching assistant in practical pharmaceutical organic, analytical and medicinal chemistry and instrumental analysis and quality control courses for undergraduate pharmacy students.

Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology, irbid, Jordan.

### **2011-2012**

Part-time lecturer in practical and theoretical pharmaceutical technology for diploma student, faculty of pharmacy, irbid university college, albalqa`a

applied university, irbid, jordan

### ***Other Experiences***

Responsible Pharmacist, **al-qainosy pharmacy, irbid, jordan**

### ***Publications***

Tamam El-Elimat, **Bara`a A. Jarwan**, Aref Zayed, Ahmed Alhusban, Maha Syouf . Biochemical evaluation of selected grape varieties (*Vitis vinifera* L.) grown in Jordan and in vitro evaluation of grape seed extract on human prostate cancer cells. *Food Bioscience*, 24, 103-110, 2018