



SDI Review Form 1.6

Journal Name:	Biotechnology Journal International
Manuscript Number:	Ms_BJI_35996
Title of the Manuscript:	Investigation the effects of UV radiation on physiological characteristics of Moringa oleifera in vitro and in vivo.
Type of the Article	Original article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	<p>Subject: <i>Moringa oleifera</i> Lam: could be introduced in the subject; not necessary in the text.</p> <p>All manuscript: The units must be separated from their values, for example: 10_ml and not 10ml.</p> <p>Introduction: The wavelength values of the UV light must be decreasing (400 – 320 nm for UV-A; 320 – 280 nm for UV-B and 280 – 200 or 100 nm for UV-C). Murashige and Skoog 1962)</p> <p>Materials end Methods: Sampling: How many seeds are submitted to UV? Treatment: How seeds were treated with UV light? Medium: Growth regulators: Which those used in the work? Sucrose, myo-inositol and growth regulators: their quantities in the medium? What moment the NaOH (0.1N) and HCl (0.1N) solutions were used each? Clorox: What's that? 30% of Clorox for 30 min, it's not too much? (See Abd El-Kadder et al., 2014).</p> <p>The medium was sterilized by autoclaving, what autoclave? What temperature and what pression? The seeds dipped in 95% ethanol, it is not 70% or 95%? See again Abd El-Kadder et al., 2014). BAP = Benzylaminopurine, What are BA and 2, 4-D? All cultures were incubated at 25±2°C, where? What the biological material used for callus production, seeds or explants or cotyledons of M. oleifera? See formula. How has the fresh weight of the callus been measured? Spectrophotometer used: Which one, his mark? Equation of the curve? In vivo is used if animals were used, I think that you could use in situ. What statistical test is used to find the same lsd (Lsd = 3.1) for all parameters?</p> <p>The conclusion was not included in the text.</p>	<p>Dear Sir/Madam</p> <p>Thank you very much for the valuable feedback Sir.</p> <p>1- As for the name of the plant, the method of units writing and wavelengths, their writing has been corrected.</p> <p>2- There are 50 seeds were submitted to UV.</p> <p>3- Seeds were sown in a distilled water for 15 minutes, then washed three times and spread in sterile petri dishes under the UV Lamps.</p> <p>4- 2,4-D (2,4-Dichlorophenoxyacetic acid) and BA (Benzyl adenine) were used as a growth regulator in this work. their quantities in the medium were</p> <p>0.5 mg/l BA</p> <p>2.5 mg/l 2, 4-D</p> <p>30 g/l sucrose</p> <p>0.1 g/l myo-inositol</p> <p>5- During the sterilization process, I suffered from the large amount of contamination that was obtained when using appropriate quantities of Clorox or ethanol, so I had to use higher concentrations for longer periods of time and I tried different concentrations for different periods until I got (0.0%) contamination ratio. Therefore, these concentrations (30% clorox for 30 min and 95% ethanol) were adopted in sterilization process.</p> <p>6- The medium was sterilized by autoclaving (Viseclave-MACS-1100, Korea) at 15 lbs pressure and 121 °C for 15 min.</p> <p>7- All cultures were incubated at 25±2°C in the growth chamber in Biotechnology Dept., College of Science, Al- Nahrain University.</p> <p>8- Seedlings were cut into small pieces (explant) and placed on the MS agar medium for callus induction.</p> <p>9- callus fresh weight was measured using sensitive balance.</p> <p>10- Spectrophotometer (Analog- 305634, Japan).</p> <p>11- The experiments were designed as factorial experiments with a completely randomized design. Analyses were done using the SPSS var. 12 software. Differences between means were determined and least significant differences were compared at P ≤ 0.05.</p>
Minor REVISION comments	<p>Callus page 3 Callus after Oraibi, 2016.</p> <p>Table 1 UV (nm): Control (0.0), A (400 – 320 nm), B (320 – 280 nm) and C (280 – 200 nm).</p>	<p>This has been done, Thans</p>
Optional/General comments	<p>° How weighted you the fresh callus?</p> <p>° How did you do between the fourth week and the sixth week for the callus after weighting?</p> <p>° Which callus have been weighted, those from seeds, explants or cotyledons?</p>	<p>1- Callus fresh weight was measured using sensitive balance under optimum sterilization conditions.</p> <p>2- I am sorry Sir, that there was a typographical error while writing, where the callus was induced within six weeks and then the pieces of induced callus was subcultured into a callus growth medium for another six weeks, and after these six weeks of call multiplication. Callus fresh weight was measured directly using sensitive balance.</p> <p>3- Only one type of callus was obtained in this research which induced from seedlings that were cut into small pieces (called explants) and placed on the MS agar medium for callus induction.</p>