

# CURRICULUM VITAE

A. Personal Details	
Full Name	Hana Kadum Shanan
Contact Details	hanakadum@mu.edu.iq 07808456387
Expertise	Biotechnology , Metabolomics , Microbiology, Biochemistry.

B. Academic Qualification		
Certificate / Qualification obtained	Year obtained	Area of Specialization
PhD	2018	Biotechnology

C. Language Proficiency					
Language	Poor (1)	Moderate (2)	Good (3)	Very good (4)	Excellent (5)
English				✓	
Arabic					✓

E. Employment				
Employer	Designation	Department	Start Date	Date Ended
AL- Muthanna University	Senior Lecturer	Science	July 2008	Sep- 2013
University Putra Malaysia	PHD student	Science	May 2014	May 2018
AL- Muthanna University	Assist .Prof. Dr	Biotechnology	Sep 2014	Sep- 2018

G. Selected, recent publications	
Journal	<p>1. Muhialdin, B. J., <b>Kadum, H.</b>, Zarei, M., &amp; Hussin, A. S. M. (2020). Effects of metabolite changes during lacto-fermentation on the biological activity and consumer acceptability for dragon fruit juice. <i>LWT</i>, 121, 108992.</p> <p>2. Muhialdin, B. J., Algboory, H. L., <b>Kadum, H.</b>, Mohammed, N. K., Saari, N., Hassan, Z., &amp; Hussin, A. S. M. (2020). Antifungal activity determination for the peptides generated by <i>Lactobacillus plantarum</i> TE10 against <i>Aspergillus flavus</i> in maize seeds. <i>Food Control</i>, 109, 106898.</p> <p>3. <b>Kadum, H.</b>, Hamid, A.A., Abas, F., Ramli, N.S., Mohammed, A.K.S., Muhialdin, B.J. and Jaafar, A.H., 2019. Bioactive Compounds Responsible for Antioxidant Activity of Different Varieties of Date (<i>Phoenix dactylifera</i> L.) Elucidated by 1H-NMR Based Metabolomics. <i>International Journal of Food Properties</i>, 22(1), pp.462-476.</p> <p>4. Anzian, A., Muhialdin, B. J., Mohammed, N. K., <b>Kadum, H.</b>, Marzlan,</p>

- A. A., Sukor, R., & Meor Hussin, A. S. (2020). Antibacterial activity and metabolomics profiling of torch ginger (*Etlingera elatior* Jack) flower oil extracted using subcritical carbon dioxide (CO<sub>2</sub>). Evidence-Based Complementary and Alternative Medicine, 2020.
5. Muhialdin, B. J., **Kadum, H.**, & Hussin, A. S. M. (2021). Metabolomics profiling of fermented cantaloupe juice and the potential application to extend the shelf life of fresh cantaloupe juice for six months at 8 C. Food Control, 120, 107555.
6. Muhialdin, B. J., **Kadum, H.**, Fathallah, S., & Hussin, A. S. M. (2020). Metabolomics profiling and antibacterial activity of fermented ginger paste extends the shelf life of chicken meat. LWT, 132, 109897.
7. **Kadum, H.** (2019). Metabolomic Profiling Elucidated by <sup>1</sup>H-NMR and the Correlation with Antibacterial and Antioxidant Activity of (*Cyperus rotundus*. L) Fermented by Lactic Acid Bacteria. stress, 1, 2.
8. Muhialdin, B. J., Algboory, H. L., Mohammed, N. K., **Kadum, H.**, Hussin, A. S., Saari, N., & Hassan, Z. (2020). Discovery and Development of Novel Anti-fungal Peptides Against Foodspoiling Fungi. Current drug discovery technologies, 17(4), 553-561.
9. Muhialdin, B. J., Hussin, A. S. M., **Kadum, H.**, Hamid, A. A., & Jaafar, A. H. (2021). Metabolomic changes and biological activities during the lacto-fermentation of jackfruit juice using *Lactobacillus casei* ATCC334. LWT, 141, 110940.
10. **Kadum, H.**, Hamid, A., Abas, F., Ramli, N. S., Mohammed, A. K. S., & Muhialdin, B. J. (2018). Applications of Date (*Phoenix dactylifera* L.) Fruits as Bioactive Ingredients in Functional Foods. vol, 12, 1101-1108.
11. Aboud, N. S., Hussein, N. J., & **Al-Musawi, H. K.** (2014). Studying the therapeutic effect of watery &alcoholic extracts extract of *Apium graveolens* leaves on urinary tract infections caused by *Staphylococcus aureus* in rabbits. Journal of University of Babylon, 22(2).
12. **Al-Mosoy, H. K.** (2013). Determination the therapeutiction of *Datura metel* leaves extract for some urinary system bacteria in rabbits (in vitro and in vivo). Al-Qadisiyah Journal of Veterinary Medicine Sciences, 12(1), 36-43.
13. Algboory, H. L., **Kadum, H.**, & Muhialdin, B. J. (2021). Shelf-life assessment of bread containing *Cyperus rotundus* rhizome aqueous extract with antimicrobial compounds identified by <sup>1</sup>H-NMR. LWT, 140, 110823.
14. Muhialdin, B. J., Marzlan, A. A., **Kadum, H.**, Arulrajah, B., Mohamad Asri, N., Fathallah, S., & Meor Hussin, A. S. (2021). Metabolomics profiling and antimicrobial activity of fermented date fruit (Khastawi) used as functional ingredients for making Asian confectionary (Dodol). Biotechnology & Biotechnological Equipment, 35(1), 478-486.
15. **Kadum, H.** (2019). EFFECT OF GINGER (ZINGIBER OFFICINALE) EXTRACT ON SALMONELLA TYPHI. Plant Archives, 19(2), 708-711.

<b>Supervision activity</b>				
Degree	Thesis title	Role	Start Date	Date Ended
MSc research	Study Antioxidant And Antimicrobial Activities Of Bioactive Peptides Generated Using Protein Extracted From Desert Truffle ( <i>Terfezia Claveryi Chatin</i> ) In Iraq.	Main supervisor	Oct- 2020	Present
MSc research	Study The Metabolic ,antioxidant and antimicrobial activities of bitter almond ( <i>prunus amygdalus L.</i> .) extracts as affected by various solvents and extracts methods	Main supervisor	Aug- 2020	Present
BSc	Antioxidant and anti-aging activity of alga	Main supervisor	Dec- 2020	Present
BSc	Antibiotic production by industrial microorganisms	Main supervisor	Dec- 2020	Present
BSc	Genetic polymorphism of breast cancer	Main supervisor	Dec- 2020	Present

<b>Teaching subjects</b>			
Stage	Subject title	Credit	Duties
MASTER	ADVANCE BIOTECHNOLOGY	2	Lecture
FOURTH STAGE	FOOD MICROBIOLOGY	2+2	Lecture and laboratory practice
FOURTH STAGE	BIOTECHNOLOGY	2+2	Lecture and laboratory practice
SECOND STAGE	RESEARCH METHODOLOGY	2	Lecture
FIRST STAGE	LABORATORY SAFETY AND SECURITY	2	Lecture