

CURRICULUM VITAE



Personal Information

-Name: Ghanya Naji Mohammed Al-Naqeb Ph.D
-Nationality: Yemeni
-Gender: Female
-Marital status: Married
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Educational Background

- Ph.D. (Nutritional Sciences, Nutrigenomics), Department of Nutrition and Dietetic, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Malaysia. 2009.
- M.Sc. (Nutritional Biochemistry), Department of Nutrition and Dietetics Faculty of Medicine and Health Sciences, University Putra Malaysia, Malaysia. 2005.
- B.Sc. (Hons) (Food Sciences and Nutrition) Department of Food Sciences and Technology, Faculty of Agriculture, Damascus University, Syria, 1999.

Working Experiences

- Assistant Professor at Laboratory of Dietetics and Clinical Nutrition, Department of Public Health, Experimental and Forensic Medicine, University of Pavia. March 2023-Current.
- Research fellowship holder at Center Agriculture Food Environment - C3A, University of Trento, Trentino, Italy. August 2020 –February 2023.
- Research fellowship holder at Chair of Food Chemistry, Faculty of Chemistry and Pharmacy, institute of Pharmacy and Food Chemistry, Universität Würzburg Germany. December 20017 –November 2019.
- Associate Professor of Nutritional Sciences, Faculty of Agriculture Food and Environment, Department of Food Science and Nutrition, University of Sana`a, Yemen (2015-2017).

- Postdoctoral Research Fellow at Grand Forks Human Nutrition Research Center, Grand Forks, North Dakota, USA (January 2014 -September 2014).
- Assistant Professor of Nutritional Sciences, Faculty of Agriculture Food and Environment, Department of Food Science and Nutrition, University of Sana`a, Yemen (2011-2015).
- Lecturer , Department of Pharmacology and Toxicology Faculty of Pharmacy, Universiti Teknologi MARA, Campus Puncak Alam, Malaysia (January 2010 – January 2011).
- Post-doctorate Researcher, Laboratory of Molecular Biomedicine, Institute of Bioscience Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Malaysia (January 2009 – September 2010).
- Postgraduate researcher at Laboratory of Molecular Biomedicine, Institute of Bioscience, UPM (2002-2009).

Teaching Expertise

Teaching Fundamentals of Food Technology, Agri-Food Sustainability
Master Course Academic Year 2022/2023, University of Pavia Italy

Courses taught at university level (Faculty of Agriculture Food and Environment, Department of Food Science and Nutrition, Yemen:

1. Biochemistry
2. Biology
3. Functional Foods
4. Preventive Nutrition
5. Introduction to Human Nutrition
6. Medical Nutrition Therapy 1
7. Medical Nutrition Therapy 2
8. Nutrition through life cycle
9. Nutritional Assessment
10. Food Preparation
11. Food Analysis
12. Food Allergy
13. Teaching Methods in Nutrition
14. Pharmacology and Toxicology
15. Food and Drug Interaction
16. Especial topics in Nutrition

I have also taught the following courses at for postgraduate students (Master) at Laboratory of Dietetics and Clinical Nutrition, Department of Public Health, Experimental and Forensic Medicine, University of Pavia. March 2023-Current.

1. Pharmacology and Toxicology.
2. Research Methodology
3. Advance Human Nutrition
4. Nutrient and nutrient interaction

Supervising students: Main and Co-supervisor for: Ph.D., Master students and final Project for graduate student.

Research Interests:

- Functional foods and nutraceuticals development for diseases prevention.
- Bioactive compounds extraction, determination, identification and application.
- Natural antioxidants and antioxidant activity.
- Research on safety evaluation and genotoxicity assessment.
- Research on the biological activity and molecular mechanisms of functional foods and traditional herbal medicine used by Committee in the area of diabetes, cardiovascular diseases, lipid accumulation, oxidative stress and cancer.

- <https://scholar.google.com/citations?user=QOGepAcAAAAJ&hl=en>

<https://orcid.org/0000-0002-7734-1706>

<https://www.researchgate.net/profile/Ghanya-Al-Naqeb/research>

<https://www.scopus.com/authid/detail.uri?authorId=36522174100>

<https://sciprofiles.com/profile/1724105>

Scientific Award

- Best research Award in 19th International Congress of the International Society for Ethnopharmacology, Hörsaalzentrum of the Technische Universität Dresden Germany. 12th-14th June 2019.
- The 2016 Elsevier Foundation Awarded for Early Career Women Scientists in the Developing World, in Biological Sciences: Agriculture, Biology, Medicine, Arab Region. Annual Meeting in Washington D.C., USA. The 10 to 15 February 2016. <https://www.elsevier.com/connect/5-biologists-to-receive-elsevier-foundation-awards-for-women-in-science-at-aaasmtg>.
- 2015 Federation of Arab Scientific Research Councils Award in Medicinal and Aromatic Plants field. Khartoum Sudan 31 May 2016.
- Ghanya Al-Naqeb, Norhaizan Mohd.Esal and Zulkhairi Hj Amom, Maznah Ismail. The Effect of Nigella Sativa and Its Oil on Atherogenesis in Hypercholesterolemia Induced Rabbits. International Conference Exploring New Frontiers in Medicine and Health 2007. (Award for Best poster presentation).

list of publications of Ghanya Al-Naqeb

A- Publications with peer review process

1. **Al-Naqeb, G.**, Cafarella, C., Aprea, E., Ferrentino, G., Gasparini, A., Buzzanca, C., Micalizzi, G., Dugo, P., Mondello, L., Rigano, F. (2023). Supercritical Fluid Extraction of Oils from *Cactus Opuntia ficus-indica* L. and *Opuntia dillenii* Seeds. *Foods*, 12, 618. <https://doi.org/10.3390/foods12030618>.
2. **Al-Naqeb, G.**, Sidarovich, V., Scrinzi, D., Mazzeo, I., Robbiati, S., Pancher, M., Fiori, L., & Adami, V. (2022). Hydrochar and hydrochar co-compost from OFMSW digestate for soil application: 3. Toxicological evaluation. *Journal of environmental management*, 320, 115910. <https://doi.org/10.1016/j.jenvman.2022.115910>.
3. **Al-Naqeb, G.**; Fiori, L.; Ciolli, M.; Aprea, E. (2021). Prickly Pear Seed Oil Extraction, Chemical Characterization and Potential Health Benefits. *Molecules*, 26, 5018. <https://doi.org/10.3390/molecules26165018>.
4. **Al-Naqeb, G.** (2020). Antioxidants activity and cholesterol regulation effect of *Caralluma flava* N.E.Br extract in HepG2 cells. *Arabian Journal of Medicinal and Aromatic Plants*, 6(3), 57-75. doi:<https://doi.org/10.48347/IMIST.PRSM/ajmap-v6i3.23655>.
5. Kaokabah, N., Al-Qubati, A., **Al-Naqeb, G.** (2020). Anti-Obesity Effects of *Pulicaria Jaubertii* E. *Gamal-Eldin* in High Fat Diet-Induced Rats. *Universal Journal of Pharmaceutical Research*, Vol. 5, no. 5, Nov. doi: <https://doi.org/10.22270/ujpr.v5i5.487>.
6. **Al-Naqeb, G.** (2017). Acute toxicity and anti-ulcerative potential of *caralluma flava* N.E.Br methanolic extract against ethanol-induced gastric ulcers in rats. *Journal of Medicinal Plants Studies*. 5(6): 21-25.
7. **Al-Naqeb, G.** (2017). *Caralluma flava* N.E.Br extract reduces plasma glucose level and improves plasma antioxidant enzymes in hyperglycemic rats. *Journal of Medicinal Plants Studies*. 5(6): 39-43. 2017.
8. **Al-Naqeb, G.**, Taj Al- Deen, A. (2017). The effect of *Rumex nervosus* Vahl leaves on high fat diet-induced hyperglycemia and hyperlipidemia in albino rats. *International Journal of Chemical Science*. 1(2), 80-83.
9. **Al-Naqeb, G.**, Rousová, J., Kubátová, A., & Picklo, M. J., Sr (2016). *Pulicaria jaubertii* E. *Gamal-Eldin* reduces triacylglyceride content and modifies cellular antioxidant pathways in 3T3-L1 adipocytes. *Chemico-biological interactions*, 253, 48–59. <https://doi.org/10.1016/j.cbi.2016.05.013>.
10. **Al-Naqeb, G.** (2015). Effect of prickly pear cactus seeds oil on the blood glucose level of streptozotocin-induced diabetic rats and its molecular mechanisms. *International Journal of Herbal Medicine*. 3(4): 2934.
11. **Al-Naqeb, G.** (2015). Antioxidant and Antibacterial Activities of Some Yemeni Medicinal Plants. *International Journal of Herbal Medicine* 2015; 3(3): 06-11.
12. Mohd Ghazali, M. A., **Al-Naqeb, G.**, Krishnan Selvarajan, K., Hazizul Hasan, M., & Adam, A. (2014). Apoptosis Induction by *Polygonum minus* is related to antioxidant capacity, alterations in expression of apoptotic-related genes, and S-phase cell cycle arrest in HepG2 cell line. *BioMed research international*, 2014, 539607. <https://doi.org/10.1155/2014/539607>.
13. Wesam, R. K., **Ghanya, A. N.**, Mizaton, H. H., Ilham, M., & Aishah, A. (2013). Assessment of genotoxicity and cytotoxicity of standardized aqueous extract from leaves of *Erythroxylum cuneatum* in human HepG2 and WRL68 cells line. *Asian Pacific*

- journal of tropical medicine*, 6(10), 811–816. [https://doi.org/10.1016/S1995-7645\(13\)60143-1](https://doi.org/10.1016/S1995-7645(13)60143-1).
14. Taj Al- Deen, A., **Al-Naqeb, G.**, Al-Maqtari. Q., (2013). Potential antioxidants and antibacterial from *Dodonaea viscosa*, *Fragaria x ananassa* duch and *Vernonia amygdalina* leaves. University of Aden Journal of Natural and Applied Sciences, 17, 2013.
 15. Azahar, M. A., **Al-Naqeb, G.**, Hasan, M., & Adam, A. (2012). Hypoglycemic effect of *Ocotelea sumatrana* aqueous extract in streptozotocin-induced diabetic rats and its molecular mechanisms. *Asian Pacific journal of tropical medicine*, 5(11), 875–881. [https://doi.org/10.1016/S1995-7645\(12\)60163-](https://doi.org/10.1016/S1995-7645(12)60163-)
 16. John, C. M., Ramasamy, R., **Al Naqeb, G.**, Dhiab Al-Nuaimi, A. H., & Adam, A. (2012). Enhanced CD4+CD25+ regulatory T cells with splenic proliferation and protection against oxidative stress by nicotinamide in gestational diabetes. *Current medicinal chemistry*, Advance online publication.
 17. John, C. M., Ramasamy, R., **Al Naqeb, G.**, Al-Nuaimi, A. H., & Adam, A. (2012). Nicotinamide supplementation protects gestational diabetic rats by reducing oxidative stress and enhancing immune responses. *Current medicinal chemistry*, 19(30), 5181–5186. <https://doi.org/10.2174/092986712803530449>.
 18. **Al-Naqeb, G.**, Al-Zubairi, A. S., Ismail, M., Amom, Z. H., & Esa, N. M. (2011). Antiatherogenic Potential of *Nigella sativa* Seeds and Oil in Diet-Induced Hypercholesterolemia in Rabbits. Evidence-based complementary and alternative medicine: eCAM, 2011, 213628. <https://doi.org/10.1093/ecam/nej071>.
 19. Ismail, N., Ismail, M., Al-Absi A., **Al-Naqeb, G.** (2011). Thymoquinone rich fraction from *Nigella sativa* and thymoquinone are cytotoxic towards colon and leukemic carcinoma cell lines. *Journal of Medicinal Plants Research*. 2011, Vol. 5(15), 3359–3366.
 20. **Al-Naqeb, G.** Ismail, M., Bagalkotkar, G., Adamu, H. (2010). Vanillin rich fraction regulates LDLR and HMGCR genes expression in HepG2 cells. *Food Research International* 43 2437–2443. <https://doi.org/10.1016/j.foodres.2010.09.015>.
 21. Ismail, M., **Al-Naqeb, G.**, Chan, K. W. (2010). *Nigella sativa* thymoquinone-rich fraction greatly improves plasma antioxidant capacity and expression of antioxidant genes in hypercholesterolemic rats. *Free radical biology & medicine*, 48(5), 664–672. <https://doi.org/10.1016/j.freeradbiomed.2009.12.002>.
 22. Mariod, A.A., **Al-Naqeb, G.**, Ismail, M. (2010). *Monechma ciliatum* methanolic extract regulates low density lipoprotein receptor and 3-hydroxy-3- methylglutaryl coenzyme A reductase genes expression in HepG2 cells. 9(36) 5813-5819.
 23. Ismail, M., **Al-Naqeb, G.**, Mamat, W. A., & Ahmad, Z. (2010). Gamma-oryzanol rich fraction regulates the expression of antioxidant and oxidative stress related genes in stressed rat's liver. *Nutrition & metabolism*, 7, 23. <https://doi.org/10.1186/1743-7075-7-23>.
 24. **Al-Naqeb, G.**, Ismail, M., & Allaudin, Z. (2009). Regulation of low-density lipoprotein receptor and 3-hydroxy-3-methylglutaryl coenzyme A reductase gene expression by thymoquinone-rich fraction and thymoquinone in HepG2 cells. *Journal of nutrigenetics and nutrigenomics*, 2(4-5), 163–172. <https://doi.org/10.1159/000227264>.
 25. **Al-Naqeb, G.**, Ismail, M. (2009). Effects of Thymoquinone Rich Fraction and Thymoquinone on plasma lipoprotein level and hepatic low-density lipoprotein receptor

and 3-Hydroxy-3methylglutaryl coenzyme A reductase gene expression. Journal of Functional Foods 1 (2009) 298–303. <https://doi.org/10.1016/j.jff.2009.06.003>.

26. **Al-Naqeep, G.N.**, M.M. Ismail, A.S. Al-Zubairi and N.M. Esa. (2009). Nutrients composition and minerals content of three different samples of *Nigella sativa* L. cultivated in Yemen. Asian Journal of Biological Sciences, 2: 43-48.
27. **Al-Naqeep, G.**, Ismail, M., (2009). Regulation of Apolipoprotein A-1 and Apolipoprotein B100 Genes by Thymoquinone Rich Fraction and Thymoquinone in HepG2 Cells. Journal of Food Lipids 16(2009) 245–258.
28. **Al-Naqeep, G.**, M. Ismail and A.S. Al-Zubairi. (2009). Fatty acid profile, α -tocopherol content and total antioxidant activity of oil extracted from *Nigella sativa* seeds. International Journal of Pharmacology. 5 (4): 244-250. Impact factor 0.751.
29. Yazan, L.S., Ng, W.K., **Al-Naqeep, G.**, Ismail, M. (2009). Cytotoxicity of Thymoquinone (TQ) from *Nigella sativa* Towards Human Cervical Carcinoma Cells (HeLa). Journal of Pharmacy Research, 2(4), 585-589. Impact factor 0. Citation 34.

B- Publications without peer review process (Conference paper)

30. **Al-Naqeep, G.** (2022). Genotoxicity Evaluation of Prickly Pear Cactus Seeds Oil in Cultured V79 Cells. September 2022. DOI: 10.21748/ZIFS8532. Conference: 2022 AOCS Annual Meeting & Expo.
31. Picklo M, Rousova J, Kubatova, **Al-Naqeep G.** (2015). *Pulicaria jaubertii* Extract Prevents Triglyceride Deposition in 3T3-L1 Adipocytes. FASEB J, 29(1):924.19.
32. Kraidi, S., Adam, A., Iryani, W., **Al-Naqeep, G.** (2013). Antiproliferative Effect of Antioxidant Rich Fraction Isolated from *Cassia Auriculata* and its Molecular Mechanisms. The Open Conference Proceedings Journal, 2013, Volume 4. 10.2174/2210289201304010228.

C – Patents

- 1- Ismail, M., **Al-Naqeep, G.** Cardioprotective Effects of Nutraceuticals Isolated from *Nigella Sativa Seeds*. US Patent App. 13/124,370, 2011. Publication of US20110244060A1. 2011-10-06
- 2- M Ismail, G Al-Naqeep, W Chan, NE Adnan Extraction of fixed oil and thymoquinone rich fraction - US Patent App. 13/832,499, 2013. 2012-02-23. Publication of US20120046366A1 <https://patents.google.com/patent/US20110244060A1/en>

Conferences and workshops

-National Biodiversity Future Center, 31 May - 1 June 2023, University of Padova - Botanical Garden of Padova.

- DAAD-Alumni-Forum from 1 to 7 of July 2022, Wuerzburg Germany.
- Speaker in the Building Peace for Sustainability through Science Conference 1 March 2022 – 6:30 pm to 8:00 pm South Africa Standard Time (SAST).
Building Peace for Sustainability through Science
<https://us06web.zoom.us/my/laurelmilliken?pwd=Z1hjTDhxRFFjY243ZExhVGVYT2NiQT09>
- World Forum for Women in Science, 8 March 2021
Refugee and displaced scientists
<https://www.interacademies.org/news/gender-dimension-refugee-and-displaced-scientists>
- The EuroScience Open Forum (ESOF) 2020 Trieste**
- Virtual 2020 AOCs Annual Meeting & Expo. From 29TH OG June 2020- 3rd of July 2020.
<https://www.eventscribe.com/2020/AOCs/agenda.asp?pfp=FullSchedule>.

- Workshop “Plant tissue culture technique from A to Z” 4-6 November 2019, Karlsruhe Institute of Technology, Karlsruhe. Venue: Fritz-Haber - Weg. 4, Gbd. 30.43, (5. OG, Seminarraum 506, 507), 76131 Karlsruhe.
- Workshop “Opening Doors: Peer-Mentoring and Collaborative Research”, 4-6 July 2019. Harnack Haus, Freie Universität Berlin, Germany.
<https://www.fu-berlin.de/en/sites/academicsinsolidarity/media/Archive-QM1.html>
- 19th International Congress of the International Society for Ethnopharmacology (12th-14th June 2019) “Antiadipogenic properties, Chemical characterization and Genotoxicity Approaches of Pulicaria Jaubertii E. Gamal-Eldin leaves Extract Originated from Yemen. Ghanya Al-Naqeb, Harald L. Esch, Carolin Kleider, Matthew J. Picklo Sr, Leane Lehmann: Hörsaalzentrum of the Technische Universität Dresden. 12th-14th June 2019.
<https://tu-dresden.de/mn/internationales/veranstaltungen/symposien-kolloquien/2019-international-ethnopharmacological-congress>.
- 2019 Forum for Academic Freedom by the Alliance of Science Organisations in Germany: Supporting the Career Development of Researchers at Risk. 18 – 19 March 2019, Berlin Cafe Moskau, Karl-Marx-Allee 34, 10178 Berlin <https://www.cafemoskau.com/>
https://www.humboldt-foundation.de/pls/web/docs/F697314032/Programme_Forum_Academic_Freedom_2019.pdf
- 2018 Scholars at Risk Network Global Congress, Freie Universität Berlin in Berlin, Germany, 23-26 April, 2018 on the theme of The University and the Future of Democracy.
<https://www.berlin-university-alliance.de/en/news/items/20180423-scholars-at-risk.html>
<https://www.humboldt-foundation.de/web/press-release-2018-10.html>
- **The Role of Some Selected Yemeni Herbal Plants for Disease Prevention**
July 12, 2018, 4pm | Campus Neues Palais | House 12, Room 0.39 (1.12.0.39)
Citizenship Lectures Summer 2018: Science at Risk – Scholars at Work. Centre for Citizenship, Social Pluralism and Religious Diversity. Universität Potsdam, Germany
<https://www.uni-potsdam.de/de/centre-citizenship/events/citizenshiplectures/citizenshiplecturessummer2018.html>
- 2018 Threatened Researchers II – Science in Exile. December 6th, 2018 Venue: “Senate Hall”, Engelbert-Arnold Str. 2, 76131 Karlsruhe (building 11.30), KIT Campus South.
<https://www.intl.kit.edu/ischolar/11116.php>
- 2016 OWSD Fifth General Assembly and International Conference on Women in Science and Technology for the Developing World 16-19 May 2016, Kuwait.
<https://owsd.net/about-owsd/conferences/5th-general-assembly-and-international-conference>

-2013- International Conference on Women in Science and Technology in the Arab Countries .
Venue: Kuwait Institute for Scientific Research (KISR) April 21-23, 2013. Ghanya Al-Naqeb*,
Department of Food Sciences and Technology, Faculty of Agriculture, University of Sana'a,
Yemen: "stimulation of Hair Growth by The Herbal Hair Proliferator and Its Molecular
Mechanisms in Vitro and In Vivo"

<http://www.sheraca.eg.net/images/conf.pdf>

-2013- The Yemeni Academic Conference on the Nutrition Study Program in Yemen, 17th to 19th
December 2013. Al- Bostan Hotel, Sana`a .

-2013- Yemen's Rural Development Agenda, Sheba hotel on Thursday, December 5th, 2013 from
8:30 am to 4.00 pm.

-2012- BIT's 2nd Annual World Congress of Marine Biotechnology (WCMB-2012), September
20-23, 2012 in Dalian, China. "Development of Nutraceutical Isolated from Nigella Sativa Seeds
for Reducing Cardiovascular Disease Risk".

[http://www.biobest.com.au/bioweb/index.php?option=com_content&view=article&id=150:annual-world-congress-of-marine-biotechnology-&catid=39:conferences&Itemid=73.](http://www.biobest.com.au/bioweb/index.php?option=com_content&view=article&id=150:annual-world-congress-of-marine-biotechnology-&catid=39:conferences&Itemid=73)

Memberships in societies and scientific committees

- TWAS Young Affiliates
- OWSD Member since 2013.
- Members of the Academics in Solidarity Network/ Germany
- Members of the scholar at risk Network/Italy
- Members of the Sana'a University Females Academies Forum/Sana`a Yemen
- Member in American Oil Chemists' Society/ USA
- Member in Women in science without borders.
- Member in Arab Scientific Research Councils
- Member in Agricultural Cooperative Federation/ Yemen
- Member in Ruler women development association / Yemen
- Member in Nutrition society / Yemen

Training Courses

-2013- Sida International Training Programme "Quality Infrastructure for Food Safety"Sweden,
November 17 to December 13, 2013.

-Training Courses on Nutrition Awareness and food processing and preservation in Abs (Hajah)
and Zabid (Hodeidah) with UNDP as trainer. 2013

-Training Courses on Nutrition Awareness and food processing and preservation in Sana`a and
Emran with UNDP as trainer. 2013

-Training Courses on Nutrition Awareness and food processing and preservation in, Hodeida with
European Union Project for Technical Assistance to Tehama Development Authority, Ministry of
Agriculture & Irrigation as trainer. 2012

-Training Courses on Nutrition Awareness and food processing and preservation in Dhamar and
Ibb with UNDP as trainer. 2012

-Training Courses on Nutrition Awareness and food processing and preservation in Lahij with
UNDP as trainer. 2012

Personal Skills and Abilities

- Experience in Genotoxicity work.
- Experience in different cells culture work.
- Experience in animal studies work (Rats, Rabbits, Mice)
- Experience in cell cancer and toxicity studies.
- Experience in molecular biology (RNA and DNA extraction, gene expression).
- Experience in operating and handling real time PCR.
- Experience in operating and handling gene expression profiler (GeXP) system
- Experience in operating SFE (Super critical fluid extraction system).
- Experience in providing training on Community-Based Management of Acute Malnutrition (CMAM).
- Experience in providing training on management of Severe Acute Malnutrition (SAM).
- Experience in providing training on management of Moderate Acute Malnutrition (MAM).
- Experience in providing training on providing supplement Feeding program for pregnant and lactating women.
- Experience in identifying training needs, plan and implement relevant trainings in nutrition.
- Experience in providing training for staff on nutrition guidelines and protocols.
- Experience in planning of dieting.
- Experience in Food processing technology.
- Experience in Food packing and labeling technology.
- Experience in Food preservation methods.

Experience in the design of small industrial units in the field of food industries.

- Experience in the development of human skills and abilities. •
- Experience in rural women development.
- Experience in the formation of agricultural cooperatives.
- Able to speak and write in Arabic and English. Having basic Malay language, Dutch and Italian language.
- Proficient in Microsoft Office (Word, Power Point, Excel) and Internet Explorer.
- Familiar in web Page Building (Netscape Navigator, Front Page and HTML).
- Experience in varies statistical program SPSS and GraphPad Prism 7.