

Curriculum Vitae

1: Personal Data:

- a. **Name:** SALMA ELGHALI MUSTAFA ELSHEIKH
- b. **Place of Birth and Date:**Atbara/ Sudan;23/4/1971
- c. **Nationality:** Sudanese
- d. **Religion:** Islam
- e. **Marital Status:** Single

2: Present Address: Department of Food Science and Technology/
Faculty of Agricultural Studies / Sudan University of Science and
Technology.

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3: Education:

- Al –shimalyaPrimary School/ Atbara.
- Al –aomal Intermediate School / Atbara.
- Atbara Higher Secondary School.

4: Qualifications:

- **B.Sc.** Bachelor of Science (Honors) in Agriculture (Second Class- Division one) Department of Food Science and Biochemistry-Faculty of Agriculture/ University ofKhartoum (1996).
- **M.Sc.:** Master in Medical Biochemistry/ Faculty of Medicine/ University of Khartoum (2003).

- **Ph. D:** in Microbial Biotechnology /Faculty of Biotechnology and Biomolecular Sciences / University Putra Malaysia (2013).

5: Thesis Title:Characterization of Probiotic Microorganisms in Equol Biotransformation.

6: Area of Interest:

Food Science, Nutrition, Natural Products and Biochemistry.

7: Professional experiences:

- Associate professor October 2020 until present
- Assistance professor 2013-2020
- Lecturer 2003-2012.
- Teaching Assistant 1998- 2003.

8:Teaching experience:

A: Undergraduate:

- **Organic Chemistry (practical):** 1st year; College of Agricultural Studies (SUST).
- **In-organic chemistry (practical):** 1st year; College of agricultural studies (SUST).
- **Physiological Biochemistry:** 2ndyear; B.Sc. Food Science and Technology and 2nd Year; B.Sc. Animal Production, College of Agricultural studies (SUST).
- **General Biochemistry:** 2ndyear; B.Sc. College of Agricultural Studies (SUST).
- **Chemical Analysis of Food:** 3rd year;B.Sc.Food Science and Technology, College of Agricultural Studies (SUST).

- **Physical chemistry:** 2nd year; B.Sc. Food Science and Technology, College of Agricultural Studies (SUST).
- **Analytical Chemistry:** 3rd year; B.Sc. Food Science and Technology, College of Agricultural Studies (SUST).
- **Human Nutrition:** 4th year. B.Sc. Food Science and Technology, College of Agricultural Studies (SUST).
- **Candy Technology:** 4th year. B.Sc. Food Science and Technology, College of Agricultural Studies (SUST).
- **Sugar Technology:** 4th year. B.Sc. Food Science and Technology, College of Agricultural Studies (SUST).
- **Industrial Attachment:** 5th year. B.Sc. Food Science and Technology, College of Agricultural Studies (SUST).
- **Academic supervisor** for many students of the Department of Food Science and Technology, (different academic year levels). B.Sc. Food Science and Technology, College of Agricultural Studies (SUST).
- **Final Year Project (supervision):** 5th year. B.Sc. Food Science and Technology, College of Agricultural Studies (SUST).

B: Post graduate:

- **Functional Foods and Nutraceuticals (Theory):** M.Sc. Food Science and Technology, College of Agricultural Studies (SUST).
- **Food Chemistry (Practical):** M.Sc. Food Science and Technology, College of Agricultural Studies (SUST).
- **Food biotechnology (Practical):** M.Sc. Food Science and Technology, College of Agricultural Studies (SUST).

- **Complementary research (supervision):** M.Sc. Food Science and Technology, College of Agricultural Studies (SUST).
- **Internal examiner** for many postgraduate students.
- **External examiner** for many postgraduate students

9: Supervision of Postgraduate students:

a. Sudan University of Science and Technology :

- Supervisor for 20 M.Sc. students (**main supervisor**).
- Supervisor for 6 PhD. students (**Co- supervisor**).
- Supervisor for 1 PhD. students (**main supervisor**).

b. Other Universities:

- **Al-Neelian University:** Supervisor for **one** M.Sc. student (**Co- supervisor**).

10: Research projects:

Three Research Projects (Funded)

11: Administrative Experience:

- **January 2020-Present:** Director of Food Safety & Quality Center / college of agricultural studies / Sudan University of Science and Technology.
- **June 2020-Present** Director of Food Processing Incubator/ department of Food Science and Technology/ College of Agricultural Studies / Sudan University of Science and Technology

- **June 2016 - October 2017:** Head of the Department of Food Science and Technology /College of Agricultural Studies /Sudan University of Science and Technology.
- **2003- 2006:** Coordinator of the Master Program of Food Science and Technology/ Department of Food Science and Technology/ Sudan University of Science and Technology.
- **2014-2016:** Coordinator of the Master Program of Food Science and Technology/ Department of Food Science and Technology/ Sudan University of Science and Technology.
- Advisor of the Society of Food Science and Technology, College of Agricultural Studies, Sudan University of Science and Technology.

12: Memberships:

- Member of Council of College of Agricultural Studies, Sudan University of Science and Technology (June 2016 - October 2017).
- Member of examination committee at College of Agricultural Studies, Sudan University of Science and Technology.
- Member of Master of Food Science and Technology Program Development Committee.
- Member of Bachelor of Food Science and Technology Program Development Committee.
- Member of the Council of Professors of Sudan University of Science and Technology (June 2016 - October 2017).

13: Extracurricular Activities:

- Member of Sudanese society of Agriculturist Engineers.
- Member of Sudanese Agricultural council.

14: Publications:

A: Journals:

- Wala S. Babekir, El Rakha B. Babiker, Mahdi A. Shakak, **Salma E. Mustafa**, Eiman O. Basheer, Ibtisam H. Elhassan and Ahmed El. Ismail (2021). Physicochemical and Phytochemical Composition of Some Indigenous Sudanese Forest Fruits. International Journal of Innovation Science, Engineering and Technology vol. 8, issue 12. 12 December 2021.
- Wala S. Babekir, Mahdi A. Shakak, El Rakha B. Babiker, **Salma E. Mustafa**, Eiman O. Basheer, Ibtisam H. Elhassan and Ahmed El. Ismail(2021). Antibacterial activities of the ethanol extracts from six Sudanese traditional Fruits against *E. coli*, *Staphylococcus aureus* and *Salmonella*. International Journal of Innovation Science, Engineering and Technology vol. 8, issue 12. 12 December 2021.
- **Salma Elghali Mustafa**, Shuhaimi Mustafa, Amin Ismail, FaridahAbas, MohdYaizd ABD Manap, Omer Abdalla Ahmed Hamdi, Salma Elzen, LutfunNahar, and Satyajit D. Sarker.(2020). Impact of Prebiotics on Equol Production from Soymilk Isoflavones by Two *Bifidobacterium* species. Heliyon6 (2020) e05298.<https://doi.org/10.1016/j.heliyon.2020.e05298>.
- Limia Hashim Mohamed, Barka Mohammed Kabeir, **Salma Elghali Mustafa**,Salma ElzenIbraheem, Saeed Abdullah Badahdah. (2020).Probiotic *Bifidobacterium longum* BB536 viable Existence at Refrigeration Storageof Fermented goat milk supplemented with inulin and different cereal bran(Sorghum,

- Barely and Millet).International Journal of Current Microbiology and Applied Sciences. Volume **9** (10): 2109-2118.
- Mohammed Fadlalla Mohamed, Salma Elghali Mustafa and Omer Abdalla Ahmed Hamdi. (2020). Determination of Phytochemical and Antioxidant Activities of Aloe vera Gel Extracts. Acta Scientific Medical Sciences 4.10: 136-141.
 - LimiaHashim Mohamed, Barka Mohammed Kabeir, **Salma Elghali Mustafa**, SalmaElzenIbraheem.(2020). Prebiotic effect of different cereal brans (sorghum, barely and millet) on growth of *Bifidobacterium longum BB536* during fermentation of goat milk. Int.J.Curr.Microbiol.App.Sci (2020) 9(10): xx-xx. (ISSN: 2319-7706).
 - Salma ElzenIbraheem, Yousif Mohamed Ahmed Idris, **Salma Elghali Mustafa** , Baraka Mohamed Kabeir Baraka, FaridahAbas, Maulidiani, M, NurAshikin Abdul Hamid.(2020). Phytochemical profile and biological activities of Sudanese baobab (*Adansoniadigitata L.*) fruit pulp extract. International Food Research Journal (IFRJ).
 - Fatima Mohammed EissaMahadi, **Salma Elghali Mustafa**, Osman Mohamed Saad and Omer Abdalla Ahmed Hamdi. (2020). Evaluation of Nutritional Value and Bioactive Ingredients of Oil from *MagniferaIndicaL.* Seeds Kernel. Acta Scientific Medical Sciences. Volume 4 Issue. (ISSN: 2582-0931).
 - Almardi A Adam, Salma A Ahmed, Thana A Mohamed, Rasha A Azrag, **Salma Elghali. Mustafa** and Omer AA Hamdi. (2019). Evaluation of repellent activities of the essential oil of *Ocimumbasilicum* against Anopheles mosquito and formulation of

mosquito repellent cream. Biomedical Research and Clinical Practice. Volume 4: 1-5. doi: 10.15761/BRCP.1000184.

- Saeed Abdullah Badahdah, Baraka Mohammed Kabeir and **Salma Elghali Mustafa**. (2019). Evaluation of Physicochemical Properties and Growth of *Bifidobacterium longum* BB536 during Fermentation of Barley Beverages. International Journal of Food and Nutrition. Vol. 8, No. 1, January 2019.
- Saeed Abdullah Badahdah, Baraka Mohammed Kabeir and **Salma Elghali Mustafa**.(2019). Effect of Malting on Chemical Composition, Minerals Contents and Microbiological Quality in different Varieties of Barely (*Hordeumvulgare*). Sudan Journal of science and technology (Agricultural and Veterinary Sciences).
- Salma ElzenIbraheem, Yousif Mohamed Ahmed Idris, **Salma Elghali Mustafa** and Baraka Mohamed Kabeir Baraka. (2019). Chemical composition and minerals content of Sudanese baobab (*Adansoniadigitata* L) fruit pulp. Sudan Journal of Science and Technology (Agricultural and Veterinary Sciences).
- Salma ElzenIbraheem, Yousif Mohamed Ahmed Idris, Baraka Mohamed Kabeir Baraka and **Salma Elghali Mustafa**. (2019). Morphological Characterization of Baobab (*AdansoniaDigitata* L.) Fruit, Pectin and some Sugars of Baobab Pulp from Different Locations in Sudan. Sudan Journal of science and technology (Agricultural and Veterinary Sciences).
- **Salma Elghali Mustafa**, Shuhaimi Mustafa, FaridahAbas, MohdYaizd A.B.D. Manap, Amin Ismail, Mehrnoush Amid, Salma Elzen. (2019). "Optimization of culture conditions of soymilk for equol production by *Bifidobacterium breve* 15700 and *Bifidobacteriumlongum* BB536'. Food Chemistry; Volume 278, 25 April 2019, pages 767-772.

- Awadia Aldow Ramadan Hamed and **Salma Elghali Mustafa**. (2018). "Extraction and assessment of pectin from pumpkin peels". Biofarmasi, J NAT PROD BIOCHEM vol 16. Number 1 (2018), pages 1-7.
- AwadiaAldow Ramadan Hamed, Abdeen ElsiddigEltyebElkhedir and **Salma Elghali Mustafa**. (2017). "Effect of Soxhlet Method Extraction on Characterization of Pectin of Pumpkin Peels". Journal of Experimental Food Chemistry, 3:1; 2017.
- Mahdi Abbas SaadShakak ,KholoudRedaAldeenAwadOkasha and **Salma Elghali Mustafa** (2016). "Physicochemical Changes of Repeatedly Used Oils for Food Frying Collected From Some Restaurants in Sudan". IJRDO-Journal of Agricultural and Research, Volume-2 | Issue-9 | September, 2016.
- **Salma Elghali Mustafa**, Shuhaimi Mustafa, FaridahAbas, MohdYaizd A.B.D. Manap, Amin Ismail, MehrnoushAmid (2014). "Variations on soymilk components during fermentation by Lactobacillus and Bifidobacterium strains". Journal of Food, Agriculture & Environment; Vol.12 (2), April 2014.
- **Salma Elghali Mustafa**, ShuhaimiMustafa ,Mehnoush Amid, MohdYaizd ABD Manap, Amin Ismail, FaridahAbas (2012). "Bioconversion of daidzein to equol by *Bifidobacterium breve*15700 and *Bifidobacterium longum* BB536". [Journal of Functional Foods; Volume 4, Issue 4](#), October 2012, Pages 736–745.

B: Publications / Conferences:

1. Salma Elghali Mustafa, Shuhaimi Mustafa, Amin Ismail, MohdYazidManap&Faridah Abas. Biotransformation of Daidzein to Equol By Selected Human Intestinal Bacteria Strains.

"International Congress of Malaysian Society for Microbiology. 1-4 December 2009", Penang, Malaysia.

2. **Salma Elghali Mustafa**, Salma Elzen Ibraheem, Yousif Mohamed Ahmed Idris, and Baraka Mohamed Kabeir Baraka. **"Total Phenolics, Flavonoids and Antioxidant Activity of Sudanese Baobab (*Adansoniadigitata*) Fruit Pulp"**. International Food Research Conference IFRC (2017).25th to 27th July 2017). University Putra Malaysia (UPM).

- **Conferences, symposia and Workshops**
- **16th Dubai International Food Safety Conference (DIFSC 2022)**
1-3 November 2022. Dubai World Trade Centre
- **2nd International Food Research Conference (IFRC 2019)**. 27-29 August 2019 -The EverlyPutrajaya/ Malaysia.
- Arab initiative on food safety for trade facilitation (SAFE) Training work shop **"National Codex Capacities Development"**; **28-30 January 2019 /Cairo –Egypt.**
- **Teaching Mobility Training** at Department of Food Science and Technology; College of Agricultural Studies; Sudan University of Science and Technology. **8 -12 January 2019.**
- Training work shop: **"Supervision skills for graduate students; 16-19 December 2018"** / Secretariat of Academic Affairs in collaboration with Scientific Research Deanship/ Sudan University of Science and Technology, Khartoum –Sudan.

- Training course: "**Intellectual Property and It 's Importance at Universities/ 24-25 April 2018**" Scientific Research Deanship/ Sudan University of Science and Technology, Khartoum –Sudan.
- Work shop on: "**Research Ethics; 8 August 2018/ Sudan University of Science and Technology, Khartoum –Sudan** " awarded by responsible conduct of research program at Jordon University of Science and Technology- Jordon and University of California San Diego- USA.
- "**3rd International Course on Food Safety and Additives**" **23-27 May 2016**" / Menemen –Izmir, Turkey.
- Training course in Quality Management System (QMS). **23th -26th November 2015**: Faculty of Agriculture / University of Khartoum (Sudan).
- "**Bioprocess Technology and Data Analysis Workshop. 14-17 December 2009**" /Department of Bioprocess Technology, Faculty of Biotechnology and Biomolecular Sciences, University Putra Malaysia.
- "**International Congress of Malaysian Society for Microbiology. 1-4 December 2009**", Penang, Malaysia.
- "**Development of Skills in Research, Data Analysis and Thesis Writing, 24- 28 September 2005**". College of Graduate Studies, Sudan University of Science and Technology.
- Training course in Management, Technology and Sources of Agricultural Information. 17 - 23 July 2005.Faculty of Agriculture; University of Khartoum; Sudan.

15: Reviewer for some local and international Journals /