

■ PROFESSIONAL ACADEMIC CURRICULUM VITAE



Prof. Abdalbasit Adam Mariod Al-Nadif

SECTION 1 — PERSONAL INFORMATION

Field	Details
Full Name	Abdalbasit Adam Mariod
Nationality	Sudanese
Date of Birth	1958, Ghibaish, Sudan
Marital Status	Married, 6 children
Current Position	Professor, Department of Biological Sciences, University of Jeddah, KSA
Previous Position	Professor, Indigenous Knowledge & Heritage Center, Ghibaish College of Science & Technology, Sudan
Field of Specialization	Food Science & Technology
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SECTION 2 — ACADEMIC QUALIFICATIONS

Degree	Institution	Country	Year	Thesis Title
Ph.D. in Natural Science	Westfälische Wilhelms-Universität Münster	Germany	2005	Investigations on the Oxidative Stability of Some Unconventional Sudanese Oils
M.Sc. Food Science & Technology	University of Gezira	Sudan	2000	Seeds of Sclerocarya birrea Oil and Protein: Quality and Product Development
B.Sc. Food Science & Technology	Alexandria University	Egypt	1986	—
Diploma in General Agriculture	Sudan University of Science & Technology	Sudan	1984	—

SECTION 3 — RESEARCH METRICS & SCIENTIFIC PROFILES

Platform	Identifier / Score	h-Index Citations	
Scopus	55888638200	37	4,554
ResearchGate	RG Score: 5.223	44	6,699
Google Scholar	i10-index: 143	48	8,201
Mendeley	71,305 Views	23	1,538
Web of Science	ResearcherID: AAD-7569-2020	-	-
ORCID	0000-0003-3237-7948	-	-

SECTION 4 — CURRENT & PREVIOUS ACADEMIC POSITIONS

Position	Institution	Country	Years
Professor, Biological Sciences	University of Jeddah	Saudi Arabia	2022–Present
Head, Research & Innovation Unit	University of Jeddah (Alkamil)	Saudi Arabia	2015–2020
Full Professor	King Abdulaziz University	Saudi Arabia	2013
Associate Professor	King Abdulaziz University	Saudi Arabia	2012–2013
Senior Research Fellow	University Putra Malaysia	Malaysia	2008–2010
Associate Professor	Sudan University of Science & Technology	Sudan	2009
Head, Food Science Dept.	Sudan University of Science & Technology	Sudan	2006–2008
Assistant Professor	Sudan University of Science & Technology	Sudan	2005–2009
Lecturer	Sudan University of Science & Technology	Sudan	2000–2005
Quality Control Consultant	Al-Musharaf Food Factories	Sudan	1999–2000
Head of Production & QA	Al-Rabia Biscuit Factory	Sudan	1997–1999
Shift Food Chemist	Afri-Cola Soft Drinks	Sudan	1996–1997
Head of Agricultural Affairs	Tazirbo Agricultural Scheme	Libya	1992–1994
Agriculturist	Sheikh Mustafa Alamain SMA Co.	Sudan	1987–1989

SECTION 5 — TEACHING RESPONSIBILITIES

Course	Level	Institution
General Inorganic Chemistry	Undergraduate	SUST
Sugar Technology	Undergraduate	SUST
Cereal Technology	Undergraduate	SUST

Course	Level	Institution
Candy Technology	Undergraduate	SUST
Oils & Fats Chemistry & Technology	Undergraduate	SUST
Food Quality Control	Undergraduate	SUST
Principles of Food Science & Technology	Undergraduate	SUST
Analytical Chemistry & Instruments	Undergraduate	SUST
Food Analysis	Undergraduate	SUST
Food Chemistry	Undergraduate	SUST
Research Methodology	Postgraduate	SUST
Functional Foods	Postgraduate	UPM
Consumer Health	Postgraduate	UPM
Food Quality Control	Undergraduate	Upper Nile University
Biology (BIO 100)	Undergraduate	KAU
Introductory Human Nutrition	Undergraduate	KAU
Biochemistry	Undergraduate	KAU
Food Processing Technology I	Undergraduate	KAU
Experimental Food Science I	Undergraduate	KAU
Instrumental Analysis	Undergraduate	KAU
Chemical Engineering I	Undergraduate	KAU
Food Chemistry	Undergraduate	KAU
Research Methodology	Postgraduate	UJ
Biology (BIO 102)	Undergraduate	UJ
Introductory Human Nutrition	Undergraduate	UJ
Biochemistry	Undergraduate	UJ
Food Processing Technology I	Undergraduate	UJ
Experimental Food Science I	Undergraduate	UJ
Food Analysis	Undergraduate	UJ
Food Chemistry	Undergraduate	UJ

SECTION 6 — LABORATORY & TECHNICAL SKILLS

Category	Skills / Techniques
Oil Extraction	Soxhlet extraction, Cold press extraction, Supercritical CO ₂ extraction
Oil & Fat Analysis	Saponification value, Iodine value, Peroxide value, Free fatty acids, Color, Induction period, Viscosity
Chromatography	GC analysis (fatty acids, sterols, tocopherols), HPLC (DAD), Volatile compounds analysis
Phenolic Compounds	Extraction, purification, identification using SPE, HPLC
Oxidation Studies	Rancimat analysis, β -carotene–linoleic acid assay, DPPH assay

Category	Skills / Techniques
Food Processing	Frying technology, Sensory evaluation, Oil esterification (biodiesel)
Cereal Science	Farinograph, Extensograph, Gluten measurement
Quality Control	Soft drinks QC, Biscuit QC, Juice QC, Tahniah sweets QC
Software	MS Office, SPSS, RSM, EndNote

SECTION 7 — RESEARCH INTERESTS

Research Area

Functional Foods & Nutraceuticals
 Bioactive Compounds (Extraction, Identification, Application)
 Insects as food and feed sources
 Oil & Fat Processing Technologies
 New Oil & Protein Sources
 Oil Stability
 Natural Antioxidants
 Phenolic Compounds
 Food Product Development

SECTION 8 — COMPLETED & ONGOING RESEARCH PROJECTS

No.	Project Title	Role	Funding Body	Status
1.	Insect Oil as a Source of Nutraceuticals: New Approaches in the Food and Feed Industry	PI	University of Jeddah	2025
2.	Examining two edible insect oils compared with traditional edible oils: Main bioactive compounds and safety against oxidation	PI	University of Jeddah	2025
3.	Extraction and physicochemical properties of gelatin from chicken feet of different ages and its effect on sensory evaluation of the developed yoghurt	PI	University of Jeddah	2024
4.	Biotechnological Conversion of Date Seed Waste into Valuable Biochemicals: Exploring Fat-Soluble Vitamins, Carotenoids, Sterols, and Fatty Acids	PI	University of Jeddah	2025
5.	Effect of partial replacement of meat with chickpea, soybean & SMP in camel burgers	PI	University of Jeddah	2023
6.	Phytochemical profiling of <i>Vangueria madagascariensis</i> fruits using GC-MS & UHPLC-MS	PI	University of Jeddah	2023
7.	Role of diet in chronic diseases in KSA	Researcher	KACST	2014
8.	Aflatoxins in Sudanese vegetable oils	Co-PI	SSMO	Completed

No.	Project Title	Role	Funding Body	Status
9.	Detection of 3-MCPD in oils & bread	Co-PI	MOHESR Sudan	Completed
10.	Acrylamide in sorghum & millet fermented foods	Co-PI	SSMO	Completed
11.	Weaning foods & skincare products from local fruits	PI	MOHESR Sudan	Completed
12.	<i>Monechma ciliatum</i> as edible & industrial oil source	PI	MOHESR Sudan	Completed
13.	Chitosan nanomaterials from melon & sorghum bugs	PI	MOHESR Sudan	Completed
14.	Effect of processing on seed composition & oil stability	PI	—	Completed
15.	Melon & sorghum bugs as protein & oil sources	PI	—	Completed
16.	<i>Jatropha curcus</i> as bio-based product source	PI	Sudan Ministry of Science	Completed
17.	<i>Moringa oleifera</i> as nutritional & pharmaceutical source	PI	SUST	Completed
18.	Saponin & phytosterol fractions from <i>Balanites aegyptiaca</i>	PI	SUST	Completed
19.	Genetic variability of rice genotypes	PI	SUST	Completed
20.	High-quality oils & proteins from new oil sources	Co-PI	MOHESR Sudan	Completed
21.	Supercritical Fluid Extraction optimization	Researcher	UPM	Completed
22.	Protein isolates from defatted rice bran	Researcher	UPM	Completed
23.	Hypercholesterolemic effect of kenaf seed phytosterols	Researcher	UPM	Completed
24.	Antioxidant activity of <i>Monechma ciliatum</i> & <i>Prunus mahaleb</i>	Researcher	UPM	Completed
25.	Antioxidative activity of rice bran extracts	Researcher	UPM	Completed
26.	Antioxidant activity of <i>Nigella sativa</i> & <i>Hibiscus cannabinus</i>	Researcher	UPM	Completed
27.	Development of fatty acid & tocopherol composition in oils	Co-Researcher	Germany	Completed
28.	Physicochemical properties of Sudanese oil sources	Co-Researcher	Germany	Completed

SECTION 9 — SUPERVISION OF POSTGRADUATE STUDENTS

A. Summary Table

Program Completed Ongoing

Ph.D.	4	4
M.Sc.	9	2

B. External Examiner — Ph.D. Theses

No.	Candidate	Thesis Title	Institution	Year
1	Sangaran Chemmalar	Synergistic effects of dual drug-loaded nanoparticles in breast cancer	UPM	2022
2	Mohamad Zulhafiz	Antidiabetic study of stingless bee honey	UPM	2022
3	Mohamed Soleiman Barre	Encapsulation & biological activity of <i>Boswellia carterii</i> oil	IIUM	2022
4	Chan Kim Wei	Cardioprotective properties of kenaf seed meal	UPM	2018
5	Norsharina Ismail	Neuroprotective effects of thymoquinone	UPM	2018
6	Mustafa Saddam Ghaji	Nanocarrier for targeted anticancer drug	UPM	2018
7	Nahida Hammadi	Histological evaluation of breast cancer treatment	UPM	2018
8	Bilyaminu Abubakar	Intergenerational effects of rice cultivars	UPM	2017
9	Maged Salem Farag	Probiotic lactic acid bacteria from milk	KAU	2017
10	Hadiza Adamu	Germinated brown rice & epigenetic changes	UPM	2017
11	Sarega Nadarajan	Anti-hypercholesterolemia of <i>Clinacanthus nutans</i>	UPM	2016
12	Maryam Hajrezaie	Synthetic Schiff bases in colon cancer prevention	UM	2014
13	Heyam Sidahmed	Antiulcer mechanisms of mangostin	UM	2014
14	Farkaad Abdul Kadir	Hepatoprotective effects of medicinal plants	UM	2014
15	Walaa Najm Abood	Immunomodulatory & wound healing plants	UM	2014
16	Nur Akmal Ishak	Antidiabetic activity of <i>Curculigo latifolia</i>	UPM	2013
17	Mohammed Alshawsh	Hepatoprotective & antimicrobial plants	UM	2012
18	Ismaila Sani	Germinated brown rice as hormone therapy alternative	UPM	—
19	Amel Al-Magrami	Medicinal plants in colon cancer prevention	UM	2013
20	Ahmed Al-Rashdi	Wound healing & gastroprotective effects	UM	2013

SECTION 10 — EXTERNAL EXAMINER (M.Sc.)

No.	Candidate	Thesis Title	Institution	Year
1	Mahgoub Ahmed	Effect of deep-fat frying on oil quality	University of Gezira	2010
2	Gada Fadlalla	Improvement of pumpkin jam	University of Gezira	2007
3	Khalid Qasem	Evaluation of tomato cultivars	University of Gezira	2008

No.	Candidate	Thesis Title	Institution	Year
4	Babiker Hussein	Nutritional evaluation of sorghum lines	University of Khartoum	2007

SECTION 11 — AWARDS & HONORS

Award / Honor	Year
University of Jeddah Excellent Researcher	2023
Abdul Hameed Shoman Award for Arab Researchers	2021
Top 2% Global Highly-Cited Researchers (Stanford University)	2020, 2022, 2023, 2024
Research Medals (Gold, Silver, Bronze)	Multiple years
10 Research Grants	Various

SECTION 12 — MEMBERSHIP IN PROFESSIONAL SOCIETIES

Society / Organization

Member, 4 Scientific Societies (names listed in full CV)

Editorial Board Member, 20+ International Journals

Reviewer for 80 International Refereed Journals

SECTION 13 — TRAINING COURSES, CERTIFICATES & WORKSHOPS

No.	Course / Workshop Title	Institution / Organizer	Location	Year
1	Basics of Freeze Drying	Teflon Science & Technology	UPM, Malaysia	2008
2	High-speed & high-resolution HPLC	Institute of Bioscience	UPM, Malaysia	2008
3	Business Management in Chemistry	Institute of Business Management	Münster, Germany	2003
4	Food Chemistry (Graduate Level)	Institute for Food Chemistry	Münster, Germany	2004
5	Biochemistry (Graduate Level)	Institute of Biochemistry	Münster, Germany	2004
6	Cereal Seeds Industry & Milling Technology	SSMO-ICC	Khartoum, Sudan	2002
7	Statistical Analysis for Quality Improvement	S.G.C.Q.A	Khartoum, Sudan	2001
8	Trends in Quality Control for Cereals	SSMO-ICC	Khartoum, Sudan	2000
9	Maintenance of Testing & Measuring Equipment	CO-Design for Quality Improvement	Khartoum, Sudan	1999
10	ISO 9000 Essentials	S.C.Q.A	Khartoum, Sudan	1998

No.	Course / Workshop Title	Institution / Organizer	Location	Year
11	ISO 9000 Documentation	S.C.Q.A	Khartoum, Sudan	1998

SECTION 14 — EDITORIAL BOARD MEMBERSHIPS

Journal / Publication	Role	Year(s)
Frontiers in Sustainable Food Systems	Editorial Board Member	—
Sustainable Food Processing	Editorial Board Member	—
Sudan Journal of Medical Sciences	Editorial Board Member	—
Foods and Raw Materials	Editorial Board Member	—
Cogent Food & Agriculture	Editorial Board Member	—
Traditional Medicine Research	Editorial Board Member	2022– Present
Acta Scientiarum Polonorum Technologia Alimentaria	Editorial Board Member	2012– Present
International Journal of Tropical Insect Science (Springer)	Editorial Board Member	2019– Present
Functional Foods in Health and Disease	Editorial Board Member	2021– Present
Sudan Journal of Science & Technology	Editorial Board Member	2011– Present
E-Cronicon Nutrition	Editorial Board Member	2018– Present
Current Research in Nutrition and Food Science (Taiwan)	Editorial Board Member	2019– Present
International Journal of Sudan Research	Editorial Board Member	2021– Present
Bioactive Compounds in Health and Disease	Editorial Board Member	2021– Present
Functional Food Science	Editorial Board Member	2021– Present
African Journal of Engineering & Technology	Editorial Board Member	2021– Present
Journal of Agriculture and Crops	Editorial Board Member	2021– Present
Asian Review of Environmental and Earth Sciences	Editorial Board Member	—

Journal / Publication	Role	Year(s)
International Journal of Agriculture, Forestry and Life Sciences	Editorial Board Member	—
Epidemiological Studies in Food Science	Editorial Board Member	—

SECTION 15 — CONSULTANCY & PROFESSIONAL STUDIES

No.	Study / Consultancy Title	Client / Institution	Year
1	Ice cream manufacturing status in Sudan	MIKO Co., Khartoum	2010
2	Food technology small-scale applications	SUST Consultancy Team	2005–2007
3	Quality control & good practice program	Jalab Bakeries, Omdurman	2007
4	Small-scale food processing units study	Sinnar State	2007
5	Drinking water quality study	Ghibaish Locality, Kordofan	2006
6	Ice cream product development feasibility	Alehsan Ice Cream Factory	2006
7	ISO certification preparation	Rabie Biscuit Factory	1997–1999
8	Quality management program	Musharaf & Daralnaeim Biscuit Factories	1999–2000

SECTION 16 — PATENTS

Patent No.	Title	Year
1517	Natural antioxidants from <i>Sclerocarya birrea</i>	2008
1542	Antioxidants from <i>Combretum hartmannianum</i> & <i>Guiera senegalensis</i>	2008
1541	Antioxidants from <i>Salvadora persica</i>	2008
1518	Biodiesel from insect & plant oils	2008

SECTION 17 — BOOKS

No.	Book Title	Authors / Editors	Publisher / ISBN / Link	Year
1	<i>Introduction to Food Science and Technology</i> (Arabic)	Mariod	Sudan University of Science & Technology	2010
2	<i>Candy Technology</i> (Arabic)	Mariod	Sudan University of Science & Technology	2011

3	<i>Sugar Technology (Part I: Technology of Raw Sugar Production) (Arabic)</i>	Mariod	Sudan University of Science & Technology	2012
4	<i>Seeds of Sclerocarya birrea Oil and Protein</i>	Abdalbasit Adam Mariod	LAP LAMBERT Academic Publishing,	2012
5	<i>Principals of Food Analysis (Arabic)</i>	Abdalbasit Adam Mariod	King Abdulaziz University	2017
6	<i>Unconventional Oilseeds and Oil Sources</i>	Mariod, Mirghani, Hussein	Elsevier	2017
7	<i>Gum Arabic: Structure, Properties, Application and Economics</i>	Mariod	Elsevier	2018
8	<i>Wild Fruits: Composition, Nutritional Value and Products</i>	Mariod	Springer,	2019
9	<i>African Edible Insects as Alternative Source of Food, Oil, Protein and Bioactive Components</i>	Mariod	Springer,	2020
10	<i>Roselle (Hibiscus sabdariffa L.): Chemistry, Production, Products, and Utilization</i>	Mariod, Tahir, Mahunu	Elsevier	2021
11	<i>African Fermented Food Products: Recent Trends in Some African Fermented Foods</i>	Sulieman & Mariod	Springer,	2022
12	<i>Multiple Biological Activities of Unconventional Seed Oils</i>	Mariod	Elsevier	2022
13	<i>Biochemistry, Nutrition, and Therapeutics of Black Cumin Seed</i>	Mariod	Elsevier	2022
14	<i>The Traditional Sudanese Foods: Sources, Composition, Preparation, Nutritional and Therapeutic Aspects</i>	Mariod	Cambridge Scholars	2023
15	<i>Recent Studies on Vitaminology – Insights, Applications and Uses</i>	Mariod	IntechOpen,	2025
16	<i>Insect Oil as a Source of Nutraceuticals: New Approaches in the Food and Feed Industry</i>	Mariod	Elsevier	2024
17	<i>Vitaminology – Biochemistry, Nutritional and Therapeutic Importance</i>	Mariod	IntechOpen	2026
18	<i>Insects Bioactive Compounds: Innovations in Functional Food, Feed, Pharmacy, and Cosmetics</i>	Mariod	Elsevier (Under Process)	2026
19	<i>Natural Gums as a Sustainable Material for Food Packaging and Preservation</i>	Tahir, Xiaobo, Mariod, Katona	Elsevier	2026

SECTION 18 — BOOK CHAPTERS

Category	Details
Total Chapters	123
Publishers	International scientific publishers
Topics	Oils & fats, antioxidants, functional foods, bioactive compounds, food chemistry, wild fruits, edible insects

SECTION 19—PUBLICATIONS (ARTICLES)

No.	Authors	Title	Journal	Year
1	Mariod & Elnour	Optimization of Microwave-Assisted Extraction of Date Seed Oil	IJFST	2026
2	Hammad Fadlalmola & Mariod	Traditional Remedies for Urinary & Kidney Diseases in Sudan	Sudan J. Med. Sci.	2025
3	Mariod et al.	Traditional Sudanese Medicine for GI & Hepatobiliary Disorders	Sudan J. Med. Sci.	2025
4	Mariod et al.	Extraction & Properties of Gelatin from Chicken Feet	Front. Sustain. Food Syst.	2025
5	Abaker et al.	Aroma Compounds in Millet Flours	Microchemical Journal	2025
6	Eltayeb et al.	Advocacy Challenges in Nursing Practice	Sudan J. Health Sci.	2025
7	Hamad et al.	Traditional Medicine for Reproductive Disorders	EC Gynaecology	2025
8	Elgadir & Mariod	Effect of Food Additives on Meat Quality	Agriculture & Food Bioactive Compounds	2025

SECTION 20 — SUMMARY OF SCIENTIFIC CONTRIBUTIONS

Category	Quantitative Contribution	Description of Impact
Peer-Reviewed Journal Articles	314+	Extensive contributions to food science, oils & fats chemistry, antioxidants, functional foods, and bioactive compounds.
Books Authored/Edited	16	Major academic references used in food science, nutrition, and natural products research.
Book Chapters	123	Contributions to international scientific volumes published by leading academic publishers.
Conference Proceedings	27	Dissemination of research findings at global scientific meetings.
Patents	4	Innovations in natural antioxidants and biodiesel production.
Research Projects	22+	Principal Investigator or collaborator in national and international funded projects.
Supervision	4 PhD (completed), 4 PhD (ongoing), 9 MSc (completed), 2 MSc (ongoing)	Strong mentorship record in postgraduate education.
External Examiner	20 PhD, 6 MSc	International recognition as an expert evaluator.
Editorial Roles	20+ Journals	Leadership in scientific publishing and peer review.
Reviewer	80+ Journals	Active reviewer for high-impact international journals.
Invited Speaker	Numerous international conferences	Recognized authority in food science & technology.
Awards	10+	Includes Shoman Award and Stanford Top 2% Global Scientist ranking.
Teaching Portfolio	20+ Courses	Undergraduate and postgraduate teaching across Sudan, Malaysia, and Saudi Arabia.
Laboratory Expertise	15+ Techniques	Advanced analytical chemistry, chromatography, oil processing, and antioxidant assays.
Professional Memberships	4 Scientific Societies	Active participation in global scientific communities.