

CURRICULUM VITAE

PROF. DR. JEHANGIR KHAN KHALIL

I. PERSONAL DATA

Name Jehangir Khan Khalil
 Nationality Pakistani
 Address 18-11 C, Park Avenue, University Town, Peshawar, 25120 Pakistan.
 Date of Birth 14-12-1941
 Telephone Residence: 92(091) 9216855, 92(091)9216847
 Mobile 03339136214
 Fax No. 92(091) 9216520
 E-mail: khaliljk@yahoo.com
khaliljk@gmail.com

II. EDUCATION

<u>Year</u>	<u>Degree</u>	<u>Institution</u>	<u>Courses of study</u>
1982	Ph.D.	Punjab University, Pakistan	Major: Nutritional Biochemistry
1975	M.S.	American University of Beirut, Lebanon.	Major: Food Technology & Nutrition
1963	M.Sc.	Peshawar University, Pakistan	Major: Chemistry

- 1 Post Doctorate at American University of Beirut, Department of Food Technology and Nutrition adjuncted to Food and Nutrition Section of Agriculture & Water Research Center, Riyadh, Saudi Arabia. 1983.
2. Post Doctorate training at University of Urbana/Champaign, USA. 1988.,

SPECIAL TRAINING.

<u>Award</u>	<u>Institution</u>	<u>Training Course</u>
Certificate	University of Illinois Urban/Champaign, USA. (1988)	Administration and Management of a Multi-Functional University
Certificate	Pakistan Institute of Management (1991)	Developing Managerial skills.
Certificate	Coverdale Org. USA (Aug.4-Sept.9, 1993)	Workshop Design and Participatory Training Skills Development.
Diploma	University of Peshawar, Pakistan (1973)	French Language

Computer Literacy: Obtained training in computer literacy. Can make use of Word Processing (MS Word), Internet Operations (including browsing, email messages etc), Presentations (MS Power point) and Spreadsheet skills (MS Excel/ Access)

III. EMPLOYMENT RECORD

2008 to date	Visiting Professor, Faculty of Nutrition Sciences, NWFP Agric. Univ. Peshawar.
2006- 2007	Professor and Chairman, Department of Food. Agric. and Chemical Technology, Karakoram International University, Gilgit, Northern Areas, Pakistan.
2003-2005	Eminent Professor, Higher Education Commission, Ministry of Education, Government of Pakistan
2001-2003	Visiting Professor, Institute of Biotechnology and Genetic Engineering (IBGE), NWFP Agricultural University, Peshawar, Pakistan.
2001	Executive Director , Institute of Business and Management Sciences, NWFP Agricultural University, Peshawar.
1997- 2001	Dean , Faculty of Nutrition Sciences. NWFP Agricultural University, Peshawar & Director , Computer Science, NWFP Agricultural University, Peshawar
1992- 1995	Chairman , Department of Agricultural Chemistry & Human Nutrition.
1987- 2001	Professor , Department of Agricultural Chemistry & Human Nutrition, NWFP Agricultural University, Peshawar with additional charge of Provost .
1980-1986	Research Associate (Specialist A) Department of Food Technology and Nutrition, American University of Beirut, Lebanon, adjuncted to the Food Science and Nutrition Section (FSN), Regional Agricultural and Water Research Center (RAWRC), Riyadh, Saudi Arabia.
1979-1984	Associate Professor , Department of Agricultural Chemistry and Human Nutrition, NWFP Agricultural University, Peshawar, Pakistan.
1969-1979	Assistant Professor , Department of Agricultural Chemistry and Human Nutrition, NWFP Agricultural University, Peshawar, Pakistan.
1963-1969	Lecturer in Chemistry , Department of Agricultural Chemistry and Human Nutrition, NWFP Agricultural University, Peshawar, Pakistan.

IV. **RESPONSIBILITIES:** Including both **Managerial responsibilities** and **Academic Management**

- **Member Selection Board, NWFP Agricultural University, Peshawar (Current)**
- **Regional Coordinator**, South Asian Association for Regional Cooperation (SAARC) Food Data Systems (SAARCFOODS) Centre with secretariat at NWFP Agricultural University, Peshawar, Pakistan. SAARCFOODS is a regional center of the International Network of Food Data Systems (INFOODS) with its secretariat at the Food and Agriculture Organization (FAO) of the United Nations Systems, Rome. The regional SAARCFOODS Center facilitates improvement in the production, dissemination, storage and exchange of food data at the national, regional and global levels. It also helps in the improvement of food security as an index of nutrition security and mapping of the insecure people under FIVIMS (Food Insecurity and Vulnerability Information Mapping System) program of the FAO.
- Member Board of Studies, Institute of Biochemistry and Molecular Biology, Lahore, Punjab.
- Former Dean, **Faculty of Nutrition Sciences, NWFP Agricultural university, Peshawar and also Incharge Dean & member of the Management Committee** of the Institute of Business and Management Sciences (IBMS), NWFP Agricultural University, Peshawar. (1998-2001)
- Teaching, Research, outreach and academic management including guidance of students for making choices for their higher studies abroad (1963-2001).

- Outreach activities in **Human Nutrition** especially food security through lectures, write-ups, hand-outs and T.V (1986-2001). Authored a book on "Food Security with special reference to Pakistan" sponsored by HEC
- Master Trainer for Teachers' training and Nutrition Training project of NWFP Agricultural University, Peshawar (1993-1995).
- Editor, Pakistan Journal of Biochemistry and Molecular Biology, published from Lahore
- Provost 1987-1996 and 1997-1998
- Chairman, **University Disciplinary Committee, UDC** (1998 to 2001)/, Secretary UDC (1985-1999)
- **Chairman, Affiliation Committee, AUP** (1999-2001)
- Chairman, Sports Committee (1998-2001)
- Chairman, Employees Welfare Committee (2000-2001)
- Member, NWFP Agricultural University Syndicate (year 2000)

V. AWARDS/ACHIEVEMENTS

- Awarded **Tamgha-i-Imtiaz**, (a medallion) on Pakistan Independence day, 14th August, 2000 by President of Pakistan in recognition of the services rendered in the field of nutrition sciences and education.
- **Awarded Fellowship** of Pakistan Society of Biochemistry and Molecular Biology (April 7-10, 1997).
- **Member** of International Food Data Conference **Task Force (IFDC TASK FORCE)** appointed at the International Nutrition Congress in Montreal, Canada, 1997 and still a member of the task force.
- **Regional Coordinator of SAARCFOODS** (SAARC Food Data Systems) since 1996.
- **Member of Asia-Pacific Network of Food and Nutrition** (ANFN) expert consultation of FAO Regional Office for Asia and Pacific regions (RAP), Bangkok, Thailand.
- Recipient of a **U.S.AID open merit scholarship** for study at the American University of Beirut.
- **Chairman, Organizing Committee** for the 4th National Conference of the Pakistan Society of Biochemistry and Molecular Biology held at NWFP Agricultural University, Peshawar, April, 7-10, 1997.
- **Recipient of Numerous Certificates of Merit** for administrative and academic performances
- **Editor, Pakistan Journal of Biochemistry and Molecular Biology**
- **Eminent Professorship, Higher Education Commission, 2003-2005.**
- **Professor, NWFP Agricultural University, Peshawar since 2007 to date.**

VI . CONSULTANCY

a. Government Organization:

Worked as Technical member of the Public Services Commission of the Government of North West Frontier Province, Pakistan, to evaluate graduate recruitment in the scientific organizations run by the Provincial Government such as Agriculture Institutes and Agriculture Department.

b. Private Industry:

- a) Advised on several matters in response to requests by the private industry to the problems faced by the agro-industry especially on canning of fruits and vegetables, and establishing of quality control labs.
- b) Conducted as *Chief Supervisor* a Nutrition Survey on DSM for Afghan Refugees under the aegis of Nutrition Cell, Planning and Development, Government of Pakistan and J.Pilgrims Pvt., Ltd. (a UK NGO), 1986.
- c) Visiting Trainer for Health Workers training program conducted by UNHCR in Peshawar (August, 1987)
- d) Nutrition Consultant for UNHCR for analyzing and report writing on the nutritional status of children of Afghan refugees in various camps inside Pakistan.(contract signed on 13th April, 1995).
- e) Nutrition survey of Saudi Arabia, 1984 (team member)

- f) Anthropometric and blood profiles of female university students to determine over nourished (over weight and obese) and undernourished students.
- g) Anthropometric data on school going children in Karak district for evaluation of their nutritional status

NGOs/Private Organizations/International organization:

- Advisor, SAARCFOODS, 2010 to date
- Coordinator, SAARCFOODS, FAO Regional Center for generation, compilation and dissemination of food composition data in SAARC countries, 1996-2010
- Resource Person for NEW (Network For Enterprising Women) an NGO working for the development of women in Pakistan (Address: 12-C, SADA Point, 28th St., Defense Housing Authority Phase-V, Karachi-75500).
- Contact person in the Resource Institution Directory for Women Entrepreneurship Development supported by UNICEF.
- Resource Person for training in Food composition data generation, compilation and data base management

VI MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

1. Nutrition Society of Pakistan (NSP) - Current President
2. Pakistan Society of Biochemistry and Molecular Biology (FPSBMB), a) Fellow and Life member b) Also its Past President.
3. Pakistan Society of Food Scientists and Technologists (PSFST)
4. Member, Technical Committee (Biological Sciences), Pakistan Science Foundation (Current Member)
5. Member, Technical Committee on Food Security of WFP/SDIP
6. Member, Asia Pacific Food Analysts Network (APFAN)
7. Member, Agriculture Professionals and Institutes Network (on line: Pakissan.com)
8. Saudi Biological Society, Saudi Arabia (Former Member)
9. Institute of Food Technologist (IFT) - Chicago, IL, U.S.A (Former Member)

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VII PARTICIPATION IN SCIENTIFIC MEETINGS / CONFERENCES/ SYMPOSIA & TRAINING WORKSHOPS

1. Participated and presented a paper in the 8th Food composition Data Conference held in Bangkok from September 30 to October 3, 2009
2. Participated in the First Nutrition Conference, Ministry of Health, Kuwait, 19-21 November, 2007. Made an oral presentation on “ Food composition in relation to Nutrition”.
3. Participated in the 7th International Food Data Conference, Sao Paulo, Brazil, 21-24 October, 2007, as Kraft-INF Travel Fellow and as a member of the task force.
4. Participated in the 18th FAOBMB Symposium on “ Genomics and Proteomics in Health Agriculture” organized by the Pakistan Society of Biochemistry and Molecular Biology and Federation of Asian and Oceanian Biochemists and Molecular Biologists at Lahore from 20-23 November, 2005.
5. Participated in the 6th International Food Data Conference held at the University of Pretoria, South Africa, from 14-16, September, 2005, as International Nutrition Foundation –Unilever Travel Fellow and member of the task force.
6. Attended the *Expert Consultation of the Asia-Pacific Network of Food and Nutrition (ANFN)* held in Bangkok, Thailand, 18-21 November, 2003, at the FAO regional Center for Asia and Pacific (RAP). as representative of Pakistan, nominated by the Ministry of Food, Agriculture and Livestock, Government of Pakistan, and presented three country reports on three different themes.
7. Attended the “*International Graduate Course on Production and Use of Food Composition Data in Nutrition, FoodComp-Asia 2002*”, held at the Institute of Nutrition, Mahidol University, Bangkok, 6-24 May,

2002 as a Resource Person. Made a presentation on the "Effect of Processing on the Nutrient Content of Foods" and presented a report on the activities of SAARCFOODS.

8. Attended the **4th Food Composition Data Conference in Bratislava, Slovak Republic**, 25-31 August, 2001, and made a presentation on the SAARCFOODS activities.

9. Participated in the workshop on "**Poverty Alleviation through Sustainable Agriculture Development**" at **Baragali**, Pakistan, from 25-27 July, 2000 and presented a paper on "The role of post-harvest management in poverty alleviation".

10. **Presented country report on FIVIMS status in Pakistan & participated in the Expert consultation of the Asia-Pacific Network of Food and Nutrition (ANFN), November 23-29, 2000 at the FAO Regional Center for Asia and Pacific (RAP), Bangkok, Thailand. which deliberated on the development of FIVIMS network in the region.**
10. Participated and presented a paper "**Food Composition Activities in the Developing Countries**" in the **3rd International Food Data Conference held in Rome, Italy**, 5-8 July, 1999.
11. Attended the workshop on "Issues and challenges in Agriculture Education, Research and Environment in the next millennium" held on 25-29 August, 1999 at Baragali, NWFP, Pakistan and presented a paper on "Food security in Pakistan and the role of agricultural institutions to meet the challenges of food security in the next millennium.
12. Organized and participated in the **second SAARCFOODS meeting** held in **Kathmandu, Nepal**, 21-23 Nov, 1998.
13. Organized the **4th National Conference of Pakistan Society of Biochemistry and Molecular Biology** at NWFP Agricultural University, **Peshawar**, April 7-10, 1997.
14. Organized the **First Organizational meeting of SAARCFOODS**, NWFP Agricultural University, **Peshawar**, August 17-20, 1996.
15. Participated in the deliberations of the "**National Forum of Health Professionals, Social Researchers and Community Leaders**" convened by the NWFP Provincial Health Department and UNICEF, 28th November, 1996. **Peshawar** to mark the 50th Anniversary of UNICEF and make commitment, action and vision for the improvement of the cause of children.
16. Participated in the **7th Asian Congress of Nutrition at Beijing, China**, 7-11 October, 1995, and represented Pakistan at the Executive Council Meeting of FANS (Federation of Asian Nutrition Societies).
17. Participated in the **3rd National Meeting of the Pakistan Society of Biochemistry and Molecular Biology** held at Avari Renaissance Hotel, **Lahore**, April 3-6, 1995.
18. Participated in a training seminar on the "**Problems of Small Peasants (Farmers) in Pakistan**" July, 1995 at Pakistan Academy For Rural Development, **Peshawar**, Pakistan.
19. Participated in National Workshop on "**Linking Population, Food and Nutrition Issue in Agriculture**" and presented a paper on "Population and Nutrition Links" - **Islamabad**, October 30 - November 1, 1994.
20. Participated in Workshop on "**Teaching and Research Trends in Biochemistry Sciences**" at UGC, Center, **Lahore**, organized by Pakistan Society of Biochemistry and International Union of Biochemistry and Molecular Biology (IUBMB), April 4-8, 1993 and delivered a lecture.
21. Participated in the Provincial and National workshop on "**Agricultural Sustainability and Natural Resource Management: 1990s and Beyond**" organized by the Government of Pakistan and US AID at NWFP Agricultural University, **Peshawar**, 6-7 May, 1990, and later at Islamabad.
22. Attended the **Ninth Meeting of the Saudi Biological Society, Riyadh**, Saudi Arabia, March, 1986 and presented Research Papers.
23. Participated and presented a paper in the **Second Symposium on Date Palm-Hofuf**, Saudi Arabia, March 3-6, 1986.
24. Attended the **Eight Meeting of the Saudi Biological Society**, King Faisal University, **Hofuf**, Saudi Arabia, March 12-14, 1985.
25. Attended the **Seventh Meeting of the Saudi Biological Society, Al-Gassim**, March 10-13, 1984.
26. Attended the **Sixth Meeting of the Saudi Biological Society, Jeddah**, Saudi Arabia, March 1-3, 1983.
27. Participated in the Symposium on "**Current Issues of Breast Feeding**". King Faisal Specialist Hospital and Research Center, Riyadh, **Saudi Arabia**, October 3, 1983.
28. Attended the **First Symposium on Date Palm - Hofuf**, Saudi Arabia, March 23-25, 1982.
29. Seminar on "**Growth standards for children in Pakistan**" held at **Islamabad**, December 1979 under the auspices of the Nutrition Division, Ministry of Planning, Government of Pakistan.
30. Attended the **Pakistan Science Conferences at Peshawar University** held in 1971.

31. Attended the **All Pakistan Seminar on Physical Chemistry**, Peshawar University, Pakistan, 1970.
32. Attended the **Pakistan Science Conferences** at Peshawar University, held in 1962.

PROJECTS DESIGNED & COMPLETED

1. **Physical, chemical and nutritional characterization of Saudi Arabian Dates (1980)**
More than 150 date varieties of Saudi Arabia were analysed for their physical parameters, chemical composition (proximate composition, vitamin C, sugars, polyphenols (Tannins), nutritional characteristics (amino acids, PER, IVPD), and their processing into date products.
Outcome: → Several Research Papers (see appendix 1)
2. **Nutritional characterization of Sorghum and Pearl millet grown in Saudi Arabia (1983)**, funded by AGWATT (US/AID)
Outcome: : → Two research publications
3. **Nutritional characterization of peanut and chickpea flours as supplements for wheat and corn flours. (1978)**. Partially funded by Agric. Dept. FATA and partially by the Faculty of Agriculture, University of Peshawar.
Outcome: : → Research publications (see Appendix 1)
4. **Supplementation of Wheat Flour with Iron (1988)** funded by TIPAN project of US AID
Outcome: : → One publication
5. **Development of a Regional Center for the SAARC countries (SAARCFOODS) (1996)** for facilitating the generation, dissemination and interchange of food composition data at the national, regional and global levels. This project was funded jointly by FAO and UNU (United Nations University)
Outcome: Establishment of SAARCFOODS CENTER at NWFP Agricultural University, Peshawar./ Proceedings of the Organizational meeting
6. Development of a report on **the Evaluation of the Nutritional Status of Afghan Refugee children in North Waziristan, Kurram and Baluchistan. Outcome:** Report for UNHCR
7. **Additionally** worked as co-worker in several other projects devised by fellow scientists eg **Impact of anemia on pregnancy outcome** by Paracha et al (UNICEF PROJECT), **Characterization of Prickly Pear, Cleome spp., Sheep, Goat and Camel milks** (Sawaya et al. / AGWATT/US AID Projects) etc
8. **Designed a training program** with counterpart at the Institute of Nutrition, Mahidol University, Bangkok (Dr.Prapasri Puwastien), for food analysts in the ASEAN and SAARC countries. Conducted the training program as a resource person and evaluated the program for the sponsors, ILSI, INFOODS/FAO

VIII. PROJECT REPORTS/ PROCEEDINGS

1. Report of the training session on **PROGRAMME DESIGN AND TRAINING SKILLS DEVELOPMENT** held at Swabi Irrigated Agriculture Project (SIAP), Mardan, NWFP January 16-18,1996 by Jehangir Khan Khalil . **Sponsor:** Pak-Swiss Project (SIAP)
2. **PROCEEDINGS OF THE FIRST SAARCFOODS ORGANIZATIONAL MEETING** edited by Jehangir Khan Khalil and published by FAO and UNU (1996) : **Sponsors:** FAO and UNU
3. Report on the **IMPACT OF ANAEMIA ON PREGNANCY OUTCOME** by Dr. Pervaiz Iqbal Parach & Dr. JehangirKhan Khalil (NWFP Agricultural University, Peshawar) and Dr. Lala Rukh and Dr. Bilquis Afridi (Dept. of Gynaecology and Obstetrics, Khyber Medical College / Hayat Shaheed Teaching Hospital, Peshawar. **Sponsors:** UNICEF/ TIPAN (1995)
4. Repot on the **EVALUATION OF THE NUTRITIONAL STATUS OF AFGHAN REFUGEE CHILDREN IN NORTH WAZIRISTAN, KURRAM AND BALUCHISTAN** *By Jehangir Khan Khalil* **Sponsor:** UNHCR (1995)

BOOKS

1. Author of “ **Food Security** with special reference to Pakistan”, published by Higher Education Commission of Pakistan, 2007
2. Co-author of a book entitled "**Dates of Saudi Arabia**" Published by the Ministry of Agriculture and Water, Riyadh, Saudi Arabia (1986).199 Pages & edited by W.N.Sawaya

- Chapter 3. Growth and compositional changes during the various development stages of some Saudi Arabian date cultivars by WN Sawaya & Jehangir Khan Khalil pp75-93.
- Chapter 5. Date bars fortified with soy or yeast proteins and dry skim milk by Jehangir Khan Khalil pp 143-165
- Chapter 6 Date By-Products: Date Seeds_ Chemical composition and nutritional quality WN Sawaya and Jehangir Khan Khaalil pp 167-176

IX RESEARCH PUBLICATIONS Research Articles→ More than 50 articles (see Appendix-1)

Appendix-I
LIST OF PUBLICATIONS
Jehangir Khan Khalil (J.K.Khalil)

Publications in Scientific Journals .

1. **Khalil, J.K.** and A.H.Halab (1975). Nutritive value and chemical composition of Arabic bread supplemented with cheese whey. Pakistan Journal of Biochemistry.8:57-62. (Pakistan)
2. **Khalil, J.K.**, N.A. Khan and M.Ahmand (1975). Amino acid composition and nutritive value of Mexi-Pak 65 and C-591 varieties of wheat (Triticum aestivum) grown under conditions of Peshawar Region. Pakistan Journal of Scientific Research.27:156-158. (Pakistan)
3. Khan, N.A., **J.K.Khalil** and T.Hussain (1979). Changes in the carotene content of carrots during maturity, processing and storage under different temperature conditions. Pakistan Journal of Biochemistry. 27:112-114. (Pakistan).
4. Alam, M., N.A.Khan, **J.K.Khalil** and T.Hussain (1979). Amino-acid composition and nutritive value of soybean (Glycine max), varieties Lee and Hood. Pakistan Journal of Biochemistry. 10. 9:26-28 (Pakistan).
5. **Khalil, J.K.** and A.H.Hallab (1977). Rheological properties and acceptability of Arabic bread supplemented with cheese whey. Pakistan Journal of Biochemistry. 10:75 -81.(Pakistan)
6. Hussain, T., M.Quresh, M.Alam and **J.K.Khalil** (1977). Effect of various levels of chloride concentration and forms of nitrogen on chloride uptake and quality of tobacco leaf. Pakistan Tobacco. 1 (2): 127-129. (Pakistan)
7. **Khalil, J.K.**, I.Ahmad, M.Saeed and N.Habib (1978). Variations in the chemical composition of citrus fruits at different stages of maturity. Journal of Science and Technology. 2:1-6.(Pakistan)
8. **Khalil, J.K.** and M.I.d. Chughtai (1978). Peanut: Its role in nutrition. Pakistan Journal of Science. 30:29-37. (Pakistan)
9. Khan, P., T. Hussain and **J.K.Khalil** (1978). The chemical composition of flue-cured virginia tobacco at leaf stalk position as influenced by potassium. Pakistan Tobacco.2:43-47.(Pakistan)
10. Khattak, M.S., T.Hussain, **J.K.Khalil** and M.Ahmand (1980) Calcium and iron content of the two spinach varieties, (Oleracea spinach) and Pishtara (Medicago Polymorph). Journal of Science and Technology. 4 (1).(Pakistan)
11. Usman, M., T.Hussain and **J.K.Khalil** (1980). Effect of different doses of NPK fertilizer on seed Yield, oil and protein content on the sunflower variety 'Turkish-473'.The Sunflower Newsletter 4(4):11-14. (Netherland)
12. Hussain,T, **J.K.Khalil**, M.A.Khan and P.Iqbal (1980). Nutrition survey of the people of the low-income group in the rural and urban population of NWFP. Pak. Journal of Science. 32:127-134) (Pakistan)
13. Hussain, S., T.Hussain, **J.K.Khalil** and I.Ahmad (1981). Effect of fertilizer application of yield, chemical composition and oil constants of soybean. Pak. Journal of Agricultural Research. 2(4):215-218. (Pakistan)
14. Hussain, T., I.Iqbal, **J.K.Khalil** and M.A.Khan (1981). Nutritional evaluation of home prepared supplementary weaning foods for infants in Pakistan.Pakistan Journal of Scientific Research. 33(1/4): 65-70. (Pakistan).

15. Sawaya, W.N., H.A. Khatchadourian, J.K.Khalil, W.M.Safi and A.A.Shalhat (1982). Growth and compositional changes during the various developmental stages of some Saudi Arabian date cultivars. *Journal of Food Science*. 47:1489-1492,1497. (USA)
16. Khalil, J.K. and M.I.D.Chughtai (1982). Chemical composition and nutritive values of wheat bread supplemented with peanut flour. *Pak. Journal of Scientific Research*. 34 (1-2) (Pakistan)
17. Khalil, J.K., and M.I.D. Chughtai (1982). Nutritional evaluation of maize bread supplemented with peanut flour. *Pakistan Journal of Biochemistry*. 15(2):83-90.(Pakistan)
18. Khalil, J.K., B. Ahmad, I.Ahmad and T.Hussain (1983). Nitrogen balance in human subjects as influenced by corn bread supplemented with peanut and chickpea flours. *Pak. Journal of Scientific and Industrial Research*. 26(2):83-86. (Pakistan).
19. Khalil J.K., I. Ahmad, P.Iqbal and S.Mufti (1983). Nutritional and organoleptic evaluation of wheat bread supplemented with peanut flour. *Pak.J. of Scientific and Industrial Research*. 26(2):87-90.(Pakistan)
20. Khalil J.K. and M.I.D.Chughtai (1983). Chemical composition and nutritional quality of five peanut cultivars grown in Pakistan. *Qualitas Plantarum: Plant Foods for Human Nutrition*. 33(1):63-70. (Netherlands)
21. Sawaya, W.N., J.K.Khalil, W.N.Safi and A.AI-Shalhat (1983). Physical and chemical characterization of three Saudi date cultivars at various stages of development. *Canadian Institute of Food Science and Technology Journal*. 16(2):87-91. (Canada)
22. Sawaya, W.N., J.K.Khalil and M.M.AI-Mohammed (1983). Nutritive value of prickly pear seeds *Opuntia ficus-indica*. *Qualitas Plantarum: Plant Foods for Human Nutrition*.33(1):91-97.(Netherlands)
23. Sawaya, W.N., H.A.Khatchadourian, J.K.Khalil and A.S.Mashadi (1983).Processing of three major Saudi Arabian date cultivars into jam. *Journal of food Science & Technology* . 20(4):149-152. (India).
24. Khatchadourian, H.A., W.N. Sawaya, J.K.Khalil and A.S. Mashadi (1983). Processing of five major Saudi Arabian date varieties into date-butter and dates-in-syrup. *Date Palm Journal*. 2(1):103-109. (Iraq)
25. Sawaya, W.N., A.M.Miski, J.K.Khalil, H.A.Khatchadourian and S.Mashadi (1983). Physical and chemical characterization of the major date varieties grown in Saudi Arabia. I.Morphological measurements, proximate and mineral analyses. *Date Palm Journal*. 2(1):1-25. (Iraq)
26. Sawaya, W.N., J.K.Khalil, W.J.Safi and H.A.Khatchadourian (1983). Date bars fortified with soy protein isolate and dry skim milk. *Journal of Food Science*. 48:1503-1506.(USA)
27. Khalil, J.K. and W.N.Sawaya (1984). Mineral and vitamin contents of Saudi Arabian pearl millet-flour and bread. *Cereal Chemistry*. 61(4):301-304.(USA)
28. Khalil, J.K., W.N.Sawaya, H.A.Khatchadourian and W.J.Safi (1984). Fortification of date bars with yeast protein and dry skim milk. *Canadian Institute of Food Science andTechnology Journal*. 17(3):131-136.(Canada).
29. Khalil, J.K., W.N.Sawaya, W.J.Safi and H.M.AI-Mohammad (1984). Chemical composition and nutritional quality of sorghum flour and bread. *Qualitas Plantarum: Plant Foods for Human Nutrition*. 34(2):141-150.(Netherlands)
30. Sawaya, W.N., J.K.Khalil and A.AI-Shalhat (1984). Mineral and vitamin contents of goat milk. *Journal of the American Dietetic Association*. 84(4):433-435. (USA).
31. Sawaya, W.N., J.K.Khalil, A.AI-Shalhat and H.AI-Mohammad(1984). Chemical composition and nutritional quality of camel milk. *Journal of Food Science*. 49(3):744-747.(USA)
32. Sawaya, W.N., J.K.Khalil and W.J.Safi (1984). Nutritional quality of Millet flour and bread. *Qualitas Plantarum: Plant Foods for Human Nutrition*. 34(2):117-125. (Netherlands)
33. Sawaya, W.N., J.K.Khalil and W.J.Safi (1984). Chemical composition and nutritional quality of date seeds. *Journal of Food Science*. 49:617-619.(USA).
34. Sawaya, W.N., J.K.Khalil, H.A.Khatchadourian and M.M.AI-Mohammad (1984). Nutritional evaluation of various breads consumed in Saudi Arabia. *Nutrition Reports International* 29(5):1161-1170.(USA)
35. Sawaya, W.N., J.P.Salji, M.Ayaz and J.K.Khalil, (1984). Chemical composition and nutritive value of Madder. *Ecology of Food and Nutrition*. 55: 29-37.(UK)
36. Khalil,J.K. and M.I.D.Chughtai (1984). Nutritional evaluation of wheat and maize breads supplemented with a mixture of peanut-chickpean flour. *Qualitas Plantarum: Plant Foods for Numan Nutrition*. 34(4):285-296.(Netherlands)
37. Sawaya, W.N., J.K.Khalil, A.F.AI-Shalhat and M.M. AI-Mohammad (1985). Mineral and vitamin contents of sheep milk. *Milchwissenschaft*. 40(2):81-83.(Germany)
38. Sawaya, W.N., J.K.Khalil, M.Ayaz and M.M. AI-Mohammad (1985).Chemical composition and nutritional quality of halva. *Nutrition Reports International*. 31(2):389-397.(USA)

39. Sawaya, W.N., A.Al-Jebrin, J.P.Salji, M. Ayaz and **J.K.Khalil** (1985). Cholesterol contents and fatty acid composition of selected Saudi Arabian dishes. *Nutrition Reports International*. 31(3):593-600.(USA)
40. Sawaya, W.N., **J.K.Khalil** and S.Ahmad (1985). Chemical composition and nutritional quality of *Cleome dolichostyla* seeds. *Qualitas Plantarum:Plant Foods for Human Nutrition*. 35(1):27-33.(Netherlands)
41. Sawaya, W.N., M. Ayaz, **J.K.Khalil** A.F.Al-Shalhat (1985). Chemical composition and nutritional quality of Tehineh (Sesame butter). *Food Chemistry*. 18(1):35-45.(UK)
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SPECIAL INTEREST

I am **interested in biochemistry** especially nutritional biochemistry (teaching & research) including the nutritional biochemistry of genetically evolved improved varieties of crops, the use of wild plants in food and nutrition and the economic well being of the poor masses, and **Food composition** and its relationship to the improvement of the **Household Nutrition Security and Livelihood needs** of a household through **food security and FIVIMS** implementations. As a teacher and Dean, Faculty of Nutritional Sciences, introduced a special paper on “Food Security” in the curricula of the Bachelor and Master programs of Agricultural Chemistry , Food and Nutrition Departments of the Faculty of Nutrition Sciences, NWFP Agricultural University, Peshawar. I have written a book on Food Security in Pakistan to cover the designed course work.

REFEREES

1. Dr. Qasim Jan,
Vice Chancellor, Quaide-eAzam University, Islamabad
2. Dr. Said Khan Khalil
Vice-Chancellor, NWFP Agricultural University, Peshawar