

CURRICULUM VITAE
MOHAMMAD A. KHALED

PERSONAL

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HIGHEST DEGREE OBTAINED

Ph.D., 1975, University of London, London (England)

HONORS AND AWARDS

1970 The USAID Visiting Fellow, Lake Forest College, Illinois.

1972-75 Colombo Plan Scholarship for Ph.D. degree in London, England.

1987-88 Fulbright Senior Scholar.

1994-96 USAID Senior Fellow, Health and Child Survival Program.

2004-2005 Fulbright Senior Scholar

2005-2010 Fulbright Senior Specialist on Roster

PROFESSIONAL EXPERIENCE:

- 2000- present: Senior Scientist, Center for Health Promotion, University of Alabama at Birmingham (UAB) Medical Center,
- 2000- present: Senior Scientist, Clinical Nutrition Research Center, UAB
- 1999- present: Senior Scholar, the Sparkman Center for Public Health Education, UAB
- 1999- present: Professor, Department of Nutrition Sciences, UAB
- 1997 - Present: Senior Scientist, Center for Aging, UAB
- 1994 – 1996: Senior Advisor, International Centre for Diarrhoeal Disease Research, Bangladesh (ICDDR,B).
- 1992 – present:: Professor, International Health, UAB
- 1990 – 1996: Associate Professor, Biomedical Engineering, UAB
- 1985 – 1996: Scientist, Comprehensive Cancer Research Center, UAB
- 1984 - 1992: Associate Professor; Department of Nutrition Sciences; Adjunct Assistant Professor of Chemistry, UAB
- 1983 - 1984: Assistant Professor, Department of Nutrition Sciences; Adjunct Assistant Professor; Department of Chemistry, UAB
- 1981 - 1993: Member, Neuropsychiatry Research Program, UAB
- 1978 - 1983 Assistant Professor, Department of Biochemistry, UAB
- 1977 - 1978 Instructor (Research); Biochemistry, UAB
- 1975 - 1977 Postdoctoral Fellow-Research Associate, Laboratory of Molecular Biophysics, UAB

MEMBERSHIPS

Member, American Society for Nutritional Sciences
Listed in American Men and Women of Science
Sigma Xi Scientific Research Society of U.S.A.
Listed in WHO's WHO in Technology
Phi Beta Delta
American Institute of Nutrition

American Society of Clinical Nutrition
 Editorial Board of Journal of Diarrhoeal Disease Research.

Research Funding:

Agency	Title of Project	P.I.	% Effort	Amount(\$)	Dates
Funded					
AHA	H. pylori Induced Hyperhomocystenemia in African American		10	154,000	2005-2007
NIDDK/NIH R03DK54239	Iron and Vitamin A Deficiency in Children due to H. pylori	Khaled	10	117,025	1999-2001
Thrasher Fund	Effects of H. pylori infection on vitamin A and Iron in Children	Khaled	10	110,205	1998-2000
Nutricia Research Foundation	Zinc and Vitamin A Supplementation to Infants and Young Children With Pneumonia and Oxidative Stress	Khaled (co-PI)	10	99,230	1997-2000
Fogarty/NIH	Minority International Research	Jolly	5	880,980	1999-2003
NIDDK/NIH R03DK53032	H. pylori and Iron Anemia	Sarker	consultant	98,615	1997-2000
Swedish Fund	Supplementation of vegetable and animal Based proteins to malnourished children	Kabir	Consultant	184,000	1996-2001
USAID	Senior Technical Advisor in Resident (STAR) at the ICDDR,B	Khaled	75	228,000	1994-1996
USAID	Method to Assess Vit. A In Malnourished Children	Khaled	20	141,100	1990-1993

NIH	Core Clinical Research Center (Program Project a Krumbieck Major grant)	10	362,360 (Direct Cost Per Year)	1989-1994
Gerber Product	Body Composition of Infants by TOBEC (Completed successfully) Khaled	5	9,000	1988-1990
NIH	Effect of isoascorbic Acid on human vitamin C nutrition Sauberlich	5	226,426	1986-1988
CNRU	NMR method to assess TBW (a pilot project which was completed successfully) Khaled	10	7,500	1986-1987
Pending:		50	Over 3M	2007-2010

Bill & Melinda Gates Foundation Antioxidative Treatment of Diarrheal Diseases.

Teaching

1. NTR-708: Nutrition, Immunity and Infection. 1997- present
2. NTR-750: Body Composition and Energy Metabolism. 1988-1994
3. NTR-518/718: Nutritional Biochemistry. 1985 – present
4. NTR – 501, Dietetic Interns Class, 1989 – 1993
5. BME-700, Instrumentation, January, 1987

Mentor:

Name	Thesis Title	Year
J. Canlas	Effects of Conductor Geometry and Other Properties on Total Body Electrical Conductivity Measurements; MS	1987
Lisa Xu	Multifrequency Bioimpedance to Measure Extracellular and Total Body Water; PhD	1988

R. K. Roney	Comparison of Anthropometric, Bioelectrical Impedance and Hydrostatic Weighing Techniques MS	1990
M. Bamman	Body Composition of Weight Lifter Before the Weight Lifting Competetion; MS	1990
R. Ugueto	Establishment of a Regression Equation for the Evaluation of the Body Composition in Infants Using The TOBEC method; MS	1991
SAM K. Bashar	Vitamin A project, post doc.	1991-1992
R. Koester	CT Derived Abdominal Fat Patterning; MS	1992
I. Kabir	Nutritional Management of Post Shigella Growth Faltering in Children With a High-Protein diet; PhD	1992
S. Edwards	Use of Multifrequency Bioimpedance in the Assessment of Hydration States in Humans; MS	1993
M. A. Wahed	Vitamin A2 Synthesis. Post Doc Training	1993
R. Ricokovick	Construction of a Duel Frequency BIA; MS	1995
K. Olson	Effect of Physiologic, Caloric Intake of High Carbohydrate-Low Fat Diet VS Low Carbohydrate-High Fat Diet on Diet-Induced Thermogenesis in Never-Obese, Postmenopausal Females; PhD	1995
A. K. Mitra	Vitamin A excretion in infection; PhD	1997
S. Bakary	Bioavailabilty of vitamin A from various Mango Preparation; PhD	1997-present
A. Islam	Maternal and Neonatal Predictors of Psychomotor And Physical Development of Five Years Old Children; Dr. P. H.	2000
Qui-in Cai	Genomic instability and testicular Cancer in humans; PhD	2000
Quentin Felty	Estrogen and breast cancer	2003
A. Rahman	A Link between H. pylori and Heart Disease	2004

4. Visiting Professorship:

- Fulbright Visiting Professor at the Institute of Nutrition and Food Science, Dhaka University, Dhaka, Bangladesh, Jan. – May 1988
- At the Aga Khan University Medical Center in Pakistan (Karachi) in Feb. 1992 and the topic was “Modern methods to assess human nutritional status.”
- The Aga Khan University Medical Center and Baquai Medical College in Karachi (Pakistan) lecturing on Oxidants and Antioxidants in health, Dec. 1996
- The Kuwait University teaching the “Use of BIA in health and diseases” Jan. 1997.
- National Institute of Cholera and Enteric Diseases (NICED), India, lecturing on the role of H. pylori on human health, Dec. 1998.
- Fulbright Visiting Professor at the Institute of Nutrition and Food Science, Dhaka University, Dhaka, Bangladesh, 2004-2005

Invited Presentations:

Presented a seminar at the International Center for Diarrhoeal Disease Research in Bangladesh (ICDDR, B) in Jan. 1991 and the topic was “New and traditional methods of body composition.”

Presented a seminar at the Aga Khan University Medical Center in Pakistan (Karachi) in Feb. 1992 and the topic was “Modern methods to assess human nutritional status.”

Presented a seminar at the International Symposium on the Nutritional Treatment and Intervention of Diseases, held in Riyadh, Saudi Arabia in Jan. 1993. The title of the lecture was “Body composition and energy expenditure in never-obese human subjects as a function of diet composition.”

Presented a lecture at The Ministry of Health in Riyadh, Saudi Arabia in Jan. 1993. The topic was “Some new observations in diabetic research area.”

Presented at the Institute of Nutrition and Food Science, Dhaka University, Dhaka, Bangladesh in Feb. 1993. The seminar was entitled “Diet induced changes in body composition and energy expenditure in never-obese human subjects.”

Bioimpedance methods for assessing human body composition was presented as invited lecture at the 14th Biomed. Engineering Symp. Held in New Delhi, India, 1995.

Invited to chair a couple of sessions on body composition methodologies in the 14th Biomed. Engineering Symp. Held in New Delhi, India, 1995.

In 1996, Rotary Club in Bangladesh invited to present my work on body composition of Bangladeshi nationals and presented under the title "Hidden Obesity in Bangladesh". This lecture was published in a reputed Bangladeshi newspaper called Bangladesh Observer.

Participated in a short course entitled "Biomedical Imaging in Medical Science" held at Johns Hopkins University, Baltimore, Maryland, March 1990. Various imaging technologies such as MRI/MRS, PET, SPECT etc. were taught for their applications in biomedical research.

Participated in the first vitamin A field support project workshop and training course on the assessment of human vitamin A status, held at the Iowa State University, Ames, Iowa from July 7 to 12, 1991

Presented a poster at the 76th American Cancer Soc. Meeting held in Houston, TX in 1985. The title of the presentation was "2-4 Diamino Pteridine Mustard: an active site directed Anticancer agent.

Presented a poster at the Keystone Symposium held at Keystone, Colorado in 1986. The topic was "Tyrosine may be analgesic if appropriately transported to the receptor site(s)".

Presented a poster at the 10th American Peptide Symposium held in St. Louis, Missouri in 1987. The title of the presentation was "Tyrosine alone exhibits opiate-like activity when linked to an amphipathic hydrocarbon chain".

Presented a seminar at the National Symposium on monitoring Environment System of Chemical Industries in Bangladesh in 1988. The topic was "NMR demonstration of the effect of organic nitrites on basic coenzymes".

Presented a poster at the 11th American Peptide Symposium held in San Diego, California in 1989. The title of the poster was "Analgesic behavior of some tyrosine-like small molecules".

Attended a National/International meeting on the biomedical applications of MRI/MRS held in New York, New York in 1987.

Presented a mini seminar at the FASEB meeting held in Washington D.C. in 1990 and the topic was "Borderline nutritional status of drug abusers". This presentation was selected for its exposure to news media by the reviewers.

Presented a seminar at the International Center for Diarrhoeal Disease Research in Bangladesh (ICDDR, B) in Jan. 1991 and the topic was "New and traditional methods of body composition." An invited lecture.

Presented a seminar at the Aga Khan University Medical Center in Pakistan (Karachi) in Feb. 1992 and the topic was "Modern methods to assess human nutritional status." An invited lecture.

Presented at the Institute of Nutrition and Food Science, Dhaka University, Dhaka, Bangladesh in Feb. 1993. The seminar was entitled "Diet induced changes in body composition and energy expenditure in never-obese human subjects." An invited lecture.

Presented at FASEB meeting held in Anaheim, California in 1994.

Presented at the 14th Biomedical Engineering Symposium held in New Delhi in 1995.

Presented at the Digestive Disease Week, Washington D. C. in 1997

Presented at the 16th International Nutrition Symposium, Montreal, Canada in 1997

"H. pylori Infection and Human Health: A Public Health Concern", presented at the Aga Khan Medical College, Karachi, Pakistan, 1999.

"What we do not about our health: the fire within us", invited lecture at the East-West University, Dhaka, Bangladesh and in Calcutta University, India, in 2005.

"Nutrition and Inflammation: H. pylori infection", presented at the ICDDR,B, Dhaka, Bangladesh, 2005

"Nutrition and Inflammation in Human Health and Diseases", presented at the Aga Khan Medical College, Karachi, Pakistan in December 2006.

Interdepartmental and community project:

- Helped International Health and Epidemiology department in the School of Public Health (SPH) to organize Public Health Nutrition program during their retreat at the Wynfrey Hotel in Oct. 1998.
- I helped a student from Miles College to successfully complete a public health nutrition project which was presented at the McWaine Center, Science and Museum in Birmingham in 1998.

International Educational Services:

- Chaired two sessions at the 14th Biomedical Engineering Conference, held in New Delhi, India in 1995.
- Organized the first International Symposium and Workshop on vitamin A at the ICDDR, B, in 1994.
- Selection as a member of the group of experts in the International Conference on the Medicinal Chemistry and Molecular Pharmacology of the Opioid Peptides and the Opiates
- Installed as a member of Beta Na chapter of Phi Beta Delta, Society for the International Scholars
- Senior Scholar, Sparkman International Center, Public Health (UAB)
- Guest Editor of Bangl. J. Nutrition in 1987.
- Member of the Editorial Board of Journal of Diarrheal Diseases Research.
- Member, Academic senate, Dhaka University, Dhaka, Bangladesh.
- External Examiner, Dhaka University, Bangladesh
- External Examiner, Calcutta University, India

PUBLICATIONS

1. DB Davies and MA Khaled. Determination of conformation of N-methylated peptide bond by NMDR method. *Tetrahedron Lett.* No. 303 2829-2832, 1973.
2. DB Davies and MA Khaled. Conformation of peptides in solution by nuclear magnetic resonance spectroscopy. Part I. Application of nuclear magnetic double resonance spectroscopy to the determination of *cis*- and *trans*-conformations of peptide bonds. *J. Chem. Soc. Perkin II*, 1651-1655, 1973.
3. MA Khaled. Conformation of oligopeptides in solution by nuclear magnetic resonance. Ph.D. Thesis, University of London (England), 1975.
4. DB Davies and MA Khaled. Conformation of peptides in solution by nuclear magnetic resonance spectroscopy. Part II. Homoallylic coupling in cyclin dipeptides. *J. Chem. Soc. Perkin II*, 187-196, 1976.
5. DB Davies and MA Khaled. Conformation of peptides in solution by nuclear magnetic resonance spectroscopy. Part III. Cyclic dipeptide ring conformations. *J. Chem. Soc. Perkin II*, 1238-1244, 1976.
6. DB Davies and MA Khaled. Conformation of peptides in solution by nuclear magnetic resonance spectroscopy. Part IV. Conformations of valinomycin determined from homoallylic proton coupling across peptide bonds. *J. Chem. Soc. Perkin II*, 1327-1334, 1976.
7. MA Khaled and DW Urry. Nuclear overhauser enhancement demonstration of the type II B-turn in repeat peptides of tropoelastin. *Biochem. Biophys. Res. Commun.* 70(2):485-491, 1976.
8. MA Khaled, V Renugopalakrishnan and DW Urry. Proton magnetic resonance and conformational energy calculations of repeat peptides of tropoelastin: The Tetrapeptide. *J. Am. Chem. Soc.* 98:7546-7553, 1976.
9. MA Khaled, DW Urry and K Ohamoto. Type Y-turn as an independent conformational feature in solution. *Biochem. Biophys. Res. Commun.* 72(1):162-169, 1976.
10. DB Davies, MA Khaled and DW Urry. Conformation of peptides in solution by nuclear magnetic resonance spectroscopy. Part V. Homoallylic proton spin coupling in linear peptides. *J. Chem. Soc. Perkin II*, 1294-1301, 1977.
11. MA Khaled, MM Long, WD Thompson, RJ Bradley, GB Brown and DW Urry. Conformational states of enkephalins in solution. *Biochem. Biophys. Res. Commun.* 76(2):224-231, 1977.

12. MA Khaled, MM Long, DW Urry, GB Brown and RJ Bradley. Conformations of enkephalin in solution. *Biophys. J.* 17:56a, 1977.
13. V Renugopalakrishnan, MA Khaled and DW Urry. Proton magnetic resonance and conformational energy calculations of repeat peptides of tropoelastin: The Pentapeptide. *J. Chem. Soc. Perkin II*, 111-119, 1978.
14. DW Urry, MA Khaled, V Renugopalakrishnan and RS Rapaka. Proton magnetic resonance and conformational energy calculations of repeat peptides of tropoelastin: The Hexapeptide. *J. Am. Chem. Soc.* 100:696-705, 1978.
15. DW Urry, MA Khaled, RS Rapaka and K Okamoto. Nuclear overhauser enhancement evidence for inverse temperature dependence of hydrophobic chain proximity in the polytetrapeptide of tropoelastin. *Biochem. Biophys. Res. Commun.* 79(3):700-706, 1977.
16. V Renugopalakrishnan, MA Khaled, K Okamoto and DW Urry. Nuclear magnetic resonance and conformational energy calculations of repeat peptides of tropoelastin: correlation of 1J (^{15}N - ^1H) with non-polarity of peptides moiety. *Int. J. Quantum Chem. Quantum Biology Sump.* No. 4:97-110, 1977.
17. RS Rapaka, MA Khaled, DW Urry, AK Saund and RS Bhatnagar. Active esters in the synthesis of sequential polypeptide models of collagen: An improved synthesis of (Pro-Pro-B-Ala) $_n$, *Macromolecules* 11(3):619-620, 1978.
18. V Renugopalakrishnan, H Sugano, MA Khaled, RS Rapaka and DW Urry. Conformational studies of cyclohexapeptide analogs of elastin sequences: Cyclo (Ala-Pro-Gly-Ala-Pro-Gly). *Int. J. Quantum Chem: Quantum Biology Symp.* No. 5:69-78, 1978.
19. MA Khaled, DW Urry, H Sugano, M Miyoshi and N Izumiya. Hydrogen-deuterium substitution and solvent effects on the nitrogen-15 nuclear magnetic resonance of gramicidin S: Evaluation of secondary structure. *Biochemistry* 17(13):2490-2494, 1978.
20. V Renugopalakrishnan, MA Khaled, RS Rapaka and DW Urry. Proton magnetic resonance and conformational energy calculations of repeat peptides of tropoelastin: A permutation of the hexapeptide. *Biochem. Biophys. Acta* 536:421-428, 1978.
21. MA Khaled, V Renugopalakrishnan, H Sugano, RS Rapaka and DW Urry. Conformational studies of Cyclo-(L-Val-L-Pro-Gly-L-Val-Gly) by nuclear magnetic resonance and theoretical energy calculations. *J. Phys. Chem.* 82(25):2743-2747, 1978.
22. MA Khaled, V Renugopalakrishnan, RS Rapaka, K Okamoto and DW Urry. NOE demonstration of side-chain association in repeat peptides of tropoelastin. *Biophys. J.* 21 80a:1978.

23. DW Urry, TL Trapane and MA Khaled. Temperature dependence of rotational correlation times for an inverse temperature transition: A fundamental characterization. *J. Am. Chem. Soc.* 100:7744-7746, 1978.
24. MA Khaled, H Sugano and DW Urry. Nuclear magnetic resonance studies on a cyclin dodecapeptide analogue of repeat hexapeptide tropoelastin: Evaluation of secondary structure. *Biochem. Biophys. Acta* 577:273-284, 1979.
25. A Spisni, L Masotti, MA Khaled and DW Urry. On the incorporation of gramicidin A channels into lipid. *Biophys. J.* 25:66a, 1979.
26. MA Khaled, DW Urry and RJ Bradley. pH and solvent titrations of enkephalins by carbon-13 nuclear resonance spectroscopy: Complete assignments of resonances. *J. Chem. Soc. Perkin II*, 1693-1699, 1979.
27. DW Urry, A Spisni, MA Khaled, MM Long and L Masotti. Transmembrane channels and their characterization in phospholipid structures. *Int. J. Quantum Chem: Quantum Biology Symp.* No. 6:289-303, 1979.
28. DW Urry, A Spisni and MA Khaled. Characterization on micellar-packaged Gramicidin a channels. *Biochem. Biophys. Res. Commun.* 88:940-949, 1979.
29. A Spisni, MA Khaled and DW Urry. Temperature induced incorporation of Gramicidin A into lysolecithin micelles demonstrated by ¹³C-NMR. *FEBS Letters* 103(2):321-324, 1979.
30. MA Khaled, H Sugano and DW Urry. Conformational study of the cyclic hexapeptide. (L-Ala¹-L-Pro²-Gly³-L-Val⁴-Gly⁵-L-Val⁶), by nuclear magnetic resonance spectroscopy. *J. Chem. Soc. Perkin II*, 206-211, 1980.
31. MA Khaled, K Okamoto and DW Urry. Nitrogen-15 NMR of repeat peptides of tropoelastin: The tetrapeptide. *Biochem. Biophys. Acta Report* 623:29-233, 1980.
32. MA Khaled, CM Venkatachalam, TL Trapane, H Sugano and DW Urry. Nuclear magnetic resonance and conformational energy calculations of repeat peptides of tropoelastin: The conformational characterization of the cyclododecapeptide. *J. Chem. Soc. Perkin II*, 1119, 1980.
33. DW Urry, CM Venkatachalam, A Spisni, P Lauger and MA Khaled. Rat theory calculation of gramicidin single channel currents using NMR-derived rat constants. *Proc. Natl. Acad. Sci. USA* 77:2028-2032, 1980.
34. MA Khaled, CM Venkatachalam, H Sugano and DW Urry. Conformational characterization of cyclododecapeptide (L-Val-L-Pro-Gly-L-Val-Gly): A repeating analogue of elastin. In: *J. Pept. Protein Re.* 17:23-33, 1981.
35. DW Urry, MA Khaled, A Spisni, CM Venkatachalam and RD Harris. Sodium-23 and nitrogen-15 magnetic resonance of membrane active peptide antibiotics (gramicidin A

and gramicidin S) in "Antimicrobial Agents and Chemotherapy". American Society of Microbiology, Bethesda, MD, pp. 53-55, 1980.

36. V Renugopalakrishnan, MA Khaled, RS Rapaka and DW Urry. The tetrapeptide, HCO-L-Ala-L-Pro-Gly-Gly-OMe: Conformations and solvent effects in Proceedings of the International Symposium on Biomolecular Structure, Conformation, Function and Evolution, University of Madras, Madras, India, 2, 545-561, 1981.
37. CM Venkatachalam, MA Khaled, H Sugano and DW Urry. NMR and conformational energy calculations of repeat peptide of elastin: Conformational Characterization of Cyclo-(L-Val-L-Pro-Gly-L-Val-Gly)₃. J. Amer. Chem. Soc. 2372-2379, 1981.
38. DW Urry, CM Venkatachalam, MA Khaled and KU Prasad. Conformational methods in the study of biological peptides and the early studies on oxytocin, in neurohypophyseal peptide hormones and other biologically active peptides. (D.H. Schlesinger, Ed.), Elsevier North Holland, Inc., pp. 169-193, 1981.
39. MA Khaled, RD Harris and DW Urry. Multiple selective irradiation to assign both peptide proton and carbon-13 resonances in Current Methods in Molecular Biology, NATO Symp., Maratea, Italy, 1981.
40. MA Khaled and DW Urry. Combinative use of multiple and selective proton decoupled carbon 13 resonance assignments of polypeptides. J. Chem. Soc. Commun. 230-232, 1981.
41. MA Khaled, RD Harris, KU Prasad and DW Urry. Complete proton and carbon-13 resonance assignments of the cyclodecapeptide of elastin by combinative use of multiple and selective proton decoupled carbon-13 and proton spectra. J. Magn. Resonance 44:255-261, 1981.
42. MA Khaled, KU Prasad and DW Urry. Temperature induced conformational transition of Cyclo-(L-Val-L-Pro-Gly-L-Val-Gly)₂: An analogue of the repeat pentapeptide of tropoelastin. Biochem. Biophys. Acta 701:285-294, 1982.
43. MA Khaled and DB Davies. Solution and ion-complex conformations of beauvericin by proton magnetic resonance. Biochem. Biophys. Acta 704:186-196, 1982.
44. MA Khaled, CL Watkins and JC Lacey Jr. 2H NMR demonstration of amino acid nucleotide interaction. Biochem. Biophys. Res. Commun. 106:1426-1434, 1982.
45. MA Khaled, CL Watkins and JC Lacey. NMR studies of amino acid nucleotide interactions. ACE-SE a168, 1982.
46. JC Lacey, DW Mullins and MA Khaled. The Genetic Code: Origin based on selective affinities and reactions. ACE-SE a212, 1982.
47. MA Khaled and CL Watkins. The detection of hydrogen bonding in peptides by C-13 and proton nuclear overhauser effect. J. Amer. Chem. Soc. 105:3363-3375, 1983.

48. CL Watkins, BB Hudson and MA Khaled. The application of ^{13}C - ^1H couplings to the determination of peptide conformation in solution. *Peptides: Chemistry and Biology*, Pierce Chemical Company, Proc. 8th American Peptide Symposium, pp. 813, 1983.
49. MA Khaled, DW Mullins and JC Lacey. Complexes of polyadenylic acid and the methyl esters of amino acids. *Origin of Life* 13:87-96, 1983.
50. MA Khaled, DW Mullins and JC Lacey Jr. Binding constants of phenylalanine for the four mononucleotides. *J. Mol. Evol.* 20:66-30, 1984.
51. MA Khaled, RD Morin, F Benington and JP Daugherty. 2,4-Diamino-6-(Bis-Chloroethyl) aminomethyl pteridine: A highly potent anticancer drug. *Cancer Chemoth. Pharmacol* 13:73-74, 1984.
52. JC Lacey Jr., DW Mullins Jr. and MA Khaled. The case for anticode. *Origin of Life* 14:505-511, 1984.
53. F Benington, RD Morin and MA Khaled. An efficient procedure for the synthesis of trans-2,3, and 4-pyridalactones. *Synthesis* 619, 1984.
54. MA Khaled, JE Baggott, JP Daugherty and VK Ghanta. 2,4-Diamino pteridine mustard: An active-site directed anticancer agent. *76th Amer. Assoc. Cancer Res. Proc.* 26:251, 1985.
55. MA Khaled and CL Krumdieck. Association of folate molecules as determined by NMR: implications on enzyme binding. *Biochem. Biophys. Res. Commun.* 130:1273-1280, 1985.
56. MA Khaled, MJ McCutcheon, J Canlas and CE Butterworth Jr. Effects of body geometry on TOBEC measurement. In: *Biomed. Eng. Recent Development IV. Proc. of 4th Southern Biomed. Eng. Conf.* 171-175, Pergamon Press, 1985.
57. MA Khaled, KU Prasad, CM Venkatachalam and DW Urry. Nuclear magnetic resonance and conformational energy characterization of repeat peptides of elastin: The Cyclohexadecapeptide, Cyclo-L, Pro 2 Gly 3 Gly 4). *J. Am. Chem. Soc.* 107:7139-7145, 1985.
58. MA Khaled and JM Beaton. The design and testing for analgesia of some enkephalin like compounds in the rat. *Soc. Neurosci. Abstr.* 11(1):389, 1985.
59. MA Khaled, CL Watkins and CL Krumdieck. Inactivation of B-12 and folate coenzymes by butyl nitrite as observed by NMR: Implications on one-carbon transfer mechanism. *BBRC* 135:201-07, 1986.
60. MA Khaled. Conformations of opioid peptides as determined by nuclear magnetic resonance and related spectroscopies. In *Opioid Peptides: Medicinal Chemistry* (eds.

RS Rapaka, G Barnett and RL Hawks), NIDA Research Monograph, Ser. 69, 266-290, 1986 (DHHS) Publication ADL 86-1454, 1986).

61. MA Khaled, GM Anantharamaiah, JM Beaton and IK Ho. Tyrosine may be analgesic if appropriately transported to the receptor site(s). *J. Cell Biochem.* 31:R34, 1986.
62. MA Khaled . (Book Review). Survey of drug research in immunologic diseases. Vol. 6: Noncondensed Aromatic Derivatives. *J. Am. Chem. Soc.* 108:6842, 1986.
63. MA Khaled, HC Lukaski and CL Watkins. Determination of total body water by deuterium NMR. *Am. J. Clin. Nutr.* 45:1-6, 1987.
64. MA Khaled, GM Anantharamaiah, JM Beaton and CL Watkins. Tyrosine alone exhibits ooiate-like activity when linked to an amphipathic hydrocarbon chain. *Proc. 10th Amer. Peptide Symp.* (GD Marshall, ed), ESCOM Publ., Page 476, 1988.
65. MA Khaled, MJ McCutcheon, S Reddy, PR Pearman, GR Hunter and RL Weinsier. Electrical impedance in assessing human body composition: The BIA Method. *Am. J. Clin. Nutr.*, 47:789, 1988.
66. MA Khaled. Modern methods for assessing human body composition. *Bangl. J. Nutr.* 1:81, 1987.
67. MA Khaled and CL Krumdieck. NMR demonstration of the effect of organic nitrites on basic coenzymes. *Natl. Symp. on Monitoring Environ. Syst. of Chem. Indust. in Bangladesh; Jan/Feb, Dhaka, Bangladesh, 1988.*
68. JM Beaton, F Benington, RD Morin, MA Khaled and JA Monti. Analgesic substituted amphetamines. *Soc. Neurosci. Abstr.* 14, p.220, 1988.
69. MA Khaled, JM Beaton, RD Morin and CL Watkins. Analgesic behavior of some tyrosine-like small molecules. *Eleventh American Peptide Symposium, 1989.*
70. MA Khaled, F Benington and RD Morin. Pteridine derivatives and method of treating cancer using same. *USA Patent No. 4,820,706, 1989.*
71. GR Hunter, LE Newton, RK Roney and MA Khaled. Effects of pre-competition diet and training on metabolism, body composition and strength in bodybuilders. *Conf. Am. Colf. Sport Med.*, 1991.
74. S Islam, MA Malek, MS Akbar, MR Karim, I Kabir and MA Khaled. Classification of malnutrition according to fat content of body of children measured by bioelectric impedance analyzer. *Bangladesh J. Nutr.* 4:73-82, 1991.
75. RK Roney, GR Hunter, MM Bamman, LE Newton and MA Khaled. Comparison of anthropometric, bioelectrical impedance and hydrostatic weighing techniques in measuring body composition during the pre-competition phase of competitive bodybuilding. *Conf. Am. Coll. Sport Med.*, 1991.

76. EW Richards, MA Khaled, CL Watkins and CL Long. The effect of sample solute on total body water using nuclear magnetic resonance. *Nutrition* 7:344-346, 1991.
77. ND Huggins, MA Khaled, PE Cornwell and Jo Alvarez. Nutritional status and immune function in cocaine and heroin abusers and in methadone treated subjects. *Res. Commun. Subst. Abuse* 12:209, 1991.
78. AK Olson, B Darnell, RL Weinsier, KM Nelson, A Wayland, M Khaled and CL Long. Effect of physiologic eucaloric intake of high carbohydrate-low fat diet vs. low carbohydrate-high fat diet on body composition and diet induced thermogenesis in never-obese, postmenopausal, caucasian females. *Amer. J. Clin. Nutr.* 56:777, 1992.
79. GR Hunter, MA Khaled, D Synder and RS Koester. Estimation of abdominal fat patterning using segmente BIA analysis and anthropometric measures analysis. *Med. Sci. Sports Exercise* 1992: 24 (suppl):A47.
80. RS Koester, GR Hunter, S Synder, MA Khaled, LL Berland. Estimation of CT derived abdominal fat patterning. *Internat. J. Obesity* 16:543, 1992.
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