

CURRICULUM VITAE

NAME : HAZEM KHADER GHNEIM

DATE & PLACE OF BIRTH : 4/6/1954, JERUSALEM

NATIONALITY : JORDANIAN AND PERMENANT RESIDENT OF USA

MAILING ADDRESS : COLLEGE OF APPLIED MEDICAL SCIENCES
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SOCIAL STATUS : MARRIED WITH TWO CHILDREN

EDUCATION

1959 - 1970 Elementary , Preparatory and High School. **St. George's School**, P. O. Box 19018, **Jerusalem**.
General certificate of education, London University Board, Ordinary level: Classical Arabic , English Literature, History, Pure Mathematics, Physics with Chemistry and Biology.

1970 - 1972 **Loughborough College of Technology, Leicestershire , England** . General certificate of Education, Associated Examining Board, Ordinary and Advanced levels, Physics, Chemistry and Biology.

1972 - 1973 **Salford College of Technology, Salford Lancashire , England**. General certificate of Education, Joint Matriculation Board Advanced level, Physics, Chemistry, Biology and Pure Mathematics.

1973 - 1976 **Salford University, Salford, M5 4WT, Lancashire, England**.
B.Sc. Joint Honours in Physiology and Biological Chemistry
Second upper class Honours.

1976 - 1977 **Newcastle-upon-Tyne University, Faculty of Medicine, Department of Clinical Biochemistry and Metabolic Medicine , Newcastle-Upon- Tyne, NE 2 , England**
M.Sc. Clinical Biochemistry.

Title of Thesis: A method for the measurement of Lysozyme using a synthetic substrate and its application to the investigation of serum Lysozyme levels in Levamisole treated patients with ovarian adenocarcinoma.

1979 - 1982 **Newcastle-upon-Tyne University , Faculty of Medicine Department of Clinical Biochemistry and Metabolic Medicine, Newcastle-Upon-Tyne, England**.
PhD : Clinical Biochemistry
Title of Thesis: Biotin and Biotin - dependent enzymes in cultured human cells .

EMPLOYMENT

Pre-Doctoral Teaching and Clinical Experience :

- 1978 - 1979 Lecturer in Organic and Analytical Chemistry,
Birzeit University , West Bank, Israel.
- 1980 - 1981 Undergraduate Laboratory instructor, Department of Biochemistry , Newcastle-Upon-
Tyne University , England.

Post Doctoral Teaching and Clinical Experience:

- 1982 - 1987 Assistant Professor in Biochemistry, Department of Biology and Biochemistry,
Birzeit University, West Bank, Israel.
- 1985 - 1987 Chairman, Department of Biology and Biochemistry, Birzeit University, West Bank,
Israel.
- 1987 - to date Assistant Professor of Clinical Biochemistry at Department Clinical Lab Sciences,
College of Applied Medical Sciences, King Saud University, Riyadh, Saudi Arabia.
Supervisor Clinical Chemistry Routine Lab, King Abdul Aziz University Hospital.

1994 Promoted to Associate Professor.

During the above 18 years I have been teaching undergraduate courses in the following disciplines:

Introductory Biochemistry	3 rd year students
Metabolic Biochemistry	3 rd year students
Clinical Biochemistry	4 th year students
Endocrinology	4 th year students
Inborn errors of Metabolism	4 th year student
Cell Biology	2 nd year students
Biochemistry Seminar	4 th year students
Metabolic Clinical Biochemistry	3 rd year students
Biochemistry Clinical Practice	4 th year students
Analytical Chemistry	2 nd year students
Advanced Diagnostic Biochemistry	M. Sc. Students
Advanced Instrumental Biochemical Analysis	M. Sc. Students
Inborn Errors of Metabolism	M. Sc. Students

Post - Doctoral Research :

- 1984 - 1987 Worked on project dealing with the metabolism of the substrates and enzymes of the GABA shunt . The parameters of the shunt were studied in brain tissue of rats that were made hypoglycemic and consequently convulsive by insulin administration. The level of the substrates and enzymes of the shunt and those of Krebs cycle were studied at pre and post convulsive stages.
- 1987-up-to-date My major research interest lies in the use of cultured human cells as a tool for various biochemical investigations. During my work in England I have used human skin fibroblast cultures for the elucidation of biochemical abnormalities and mechanisms behind biotin-dependent carboxylase deficiencies, a group of inborn errors of metabolism. I enjoy working with inborn errors and have accumulated a lot of experience in this field. We have succeeded in Riyadh at setting up facilities for the investigation of a number of inborn errors of metabolism including Urea Cycle Congenital defects and Maple Syrup Urine Disease. The rate of incidence of such errors in Saudi Arabia and the region is extremely high. I have also used cultured human cells for biochemical characterization of aging. Biochemical variations related to glucose and amino acid metabolism that accompany the aging process have also been studied. Future work includes the effect of aging on fatty acid degradation. I have also used cultured human fibroblast to look at the effect of crude and purified venom protein fractions on key cellular metabolic activities. Other interests lie in the use of serum and biological fluid enzymes as early markers of disease. Such work included the use of serum and pleural fluid adenosine deaminase activity in the diagnosis of pulmonary tuberculosis. In addition the use of adenosine deaminase as a possible marker of aging has been investigated and the role of zinc in increasing the catalytic activity of the enzyme in aging cultured human fibroblasts has been studied. More recently I have initiated a project dealing with superoxide radicals and superoxide scavenger enzymes in human cultured cells that have been aged and subjected to oxidative stress. The effect of many factors on this including improved oxygenation, vitamins E and C, copper, zinc, and selenium will be studied. The enclosed list of publications will reflect the above mentioned interests.

Academic Honours and Scholarships:

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| 1973 - 1976 | Salford Area Education Authority, England. Undergraduate Scholarship. |
| 1979 - 1982 | British Council Scholar. |
| 1984 | British Council Research Award. |
| 1984 - 1986 | Birzeit University Research Award |
| 1988 - todate | King Saud University (Riyadh) Research Award. |
| 1998 – todate | King Abdulaziz City of Science & Technology (Saudi Arabia) Research Award |

Affiliation in Professional Societies:

- 1991 Clinical Scientist Member of the American Society of Clinical Pathologists (ASCP).
- 1998 Member of the Association of Clinical Biochemists (London).
- 1998 Member of the Australian Institute of Medical Scientists
- Member of the New York Academy of Sciences
- Member of the American Association for the Advancement of Science

Extra-curricular Activities:

- 1980 - 1981 President , Hiscock House, Castle Leazes Halls of Residence , Newcastle-upon-Tyne, England
- 1981 - 1982 Sub-Warden, Freeman`s Hall, Castle Leazes, Newcastle-upon-Tyne, England.

Names of Academic Referees:

- 1- Dr K. Bartlett,
Professor of Paediatric Biochemistry,
Dept. of Child Health, Royal Victoria Infirmary,
Fremlington Place, Newcastle-upon-Tyne, NE2 4HH, England.
- 2- Professor K.G.M.M. Alberti,
Chairman,Department of Medicine,
Medical School, Fremlington Place, Newcastle-upon-Tyne NE2 4HH, England.
- 3- Professor G. Baramki, Vice president Birzeit University P.O.Box 14 Birzeit, West Bank.
- 4- Dr. Abdul Aziz Al-Meshari, Chairman, Department of
Obstetrics & Gynaecology, Medical School, King Saud
University, Riyadh, KSA.
- 5- Dr. Fahad J. Al-Shammary, Dean, College of Applied Medical Sciences,
King Saud University, College of Applied Medical Sciences,
P.O.Box 10219, Riyadh 11433, Saudi Arabia.