

CURRICULUM VITAE

NAME : Hamzeh H. Elayan

PERSONAL DATA : Born: April 12, 1949
Place of Birth: Al-Khalil, Jordan
Married, 4 Children

ADDRESS : Department of Pharmacology
Faculty of Medicine
University of Jordan,
Amman, Jordan

Email : hamzehe@yahoo.com

EDUCATION : 1973- B.S.c. Pharmacy, Cairo University
Cairo, Egypt

1978- Ph.D Pharmacology, Leeds
University England

EMPLOYMENT AND
PROMOTIONS : Present position Professor of Pharmacology since
July 1990.
Pharmacology Department
Faculty of Medicine
University of Jordan

Pharmacology Department March 1984 to - Associate Professor of
July 1990 Pharmacology
Faculty of Medicine
University of Jordan

Pharmacology February 1979 to- Assistant Professor of
1984

Pharmacology October 1978 to- Part Time Lecturer of
February 1979 University of Jordan,
Amman, Jordan

January 1974 to- Pharmacist at General Medical

September 1974 Laboratory, Ministry of Health
Amman-Jordan

Committees:

Research Committee.
Curriculum and Examination Committee.
Promotion Committee.
Library Committee.

Faculty Council.
Membership of Safety of some food products committees,
Ministry of Health, Amman-Jordan

TEACHING ACTIVITIES:

1. Teaching pharmacology courses to:
2. - Medical students, 2nd & 3rd years.
 - Pharmacy students
 - Dental students
 - Nursing students
 - Rehabilitation students
 - Post graduate students
3. Teaching an introductory course in medical laboratory technology for the medical technical diploma students (years 1982 - 1985)
4. Teaching short revision courses in pharmacology for pharmacists at the syndicate of pharmacists 1985

AWARDS: Fulbright grant 1991-1992

RESEARCH ACTIVITIES:

1. A research visit for 3 months (Summer, 1980) to Department of Pharmacology, Leeds University, Leeds, England.
2. A visiting professor, associated with Dr. M. Bennett, Department of pharmacology, Faculty of Pharmacy, University of Bath, England.

3. Sabbatical leave from June 1987 to July 1988. Associated with Michael G. Ziegler, M.D. University of California- San Diego (UCSD) Medical Center, , San Diego, California, USA.
4. Sabbatical leave from June 91 to July 92 in UCSD Medical Center, San Diego, USA. supported by a Fulbright scholarship.
5. Six month sabbatical leave (Feb. 1999-August-1999) in UCSD Medical Center, San Diego, USA.
6. Six month sabbatical leave (Feb. 2001-August-2001) in UCSD Medical Center, San Diego, USA.
7. Six month leave (Feb. 2005-August-2005) in UCSD Medical Center, San Diego, USA.
8. Sabbatical leave from september 2010 to August 2011. Associated with Michael G. Ziegler, M.D. UCSD Medical Center, San Diego, California, USA.
9. Sabbatical leave for one term from August 2013 to January 2014, at . UCSD Medical Center, San Diego, California, USA.

PUBLICATIONS:

Chronic β 2 adrenergic agonist, but not exercise , improves glucose handling in older type 2 diabetic mice. Elayan H, Milic M, Sun P, Gharaibeh M, Ziegler MG. Cell Mol neurobiol. 32(5): 871-7, 2012.

Endogenous epinephrine protects against obesity induced insulin resistance. Michael G. Ziegler , Milos Milic , Ping Sun , Chih-Min Tang , Hamzeh Elayan , Xuping Bao ,Wai Wilson Cheung , Daniel T. O'Connor. Autonomic Neuroscience: Basic and Clinical, 162 :32-4. 2011.

Cardiovascular regulation in obstructive sleep apnea. .Michael G. Ziegler , Milos Milic, Hamzeh Elayan. Drug discovery Today: Disease Models. Vol.8. No. (4) : 155-160, 2011.

Epinephrine and the Metabolic syndrome. Michael G. Ziegler, Hamzeh Elayan, , Milos Milic & Munir Gharaibeh. *Current Hypertension Reports*. Vo.243-6, 11906-11911, 2011.

Epinephrine regulation of hemodynamics in catecholamine knockouts and the pithed mouse. Sun P, Bao X, Elayan H, Milic M, Liu F, Ziegler MG. *Ann N Y Acad Sci*.1148:325-30, 2008

Cardiovascular responses to electrical stimulation of sympathetic nerves in the pithed mouse. Hamzeh H. Elayan , Ping Sun , Milos Milic , Fujun Liu , Xuping Bao , Michael G. Ziegler. *Autonomic Neuroscience: Basic and Clinical* 140 (2008) 49–52

The pressor effect of NO synthase inhibition correlates to pre-existing systolic BP in the rat. Elayan HH, Kennedy BP, Ziegler MG., *Auton Neurosci*. 2002 Ja 10; 95(1-2): 32-6.

Adrenalectomy attenuates L-NAME augmentation of the vasopressor responses to sympathetic nerve stimulation in the pithed rat. Elayan HH, Kennedy BP, Ziegler MG. *Life sciences* 70: No 21, April 21, 2002 2481-2491

Selective peripheral regulation of norepinephrine and epinephrine release by nitric oxide. Elayan HH, Kennedy BP, Ziegler MG. *Clin. Exper . Pharm Physiol* 29(7): 589-94, Jul 2002.

The Bioequivalence Study of Folifer-Z: A new formulation of sustained-release iron and zinc. Salhab AS, Zmeili SM, Gharaibeh, MN, Elayan H, Sallam E, Al Deleq S. *Int J Pharm*. 178(2): 171-81, 1999.

Glucocorticoid elevation of mRNA encoding epinephrine-forming enzyme in lung. Kennedy B, Elayan H, Ziegler MG. *Am J Physiol*. 265(2 Pt 1): L117-20 , 1993.

Glucocorticoid induction of epinephrine synthesizing enzyme in rat skeletal muscle and insulin resistance. Kennedy B, Elayan H, Ziegler MG. *J Clin Invest*. 92(1): 303-7, 1993.

Glucocorticoid hypertension and nonadrenal phenylethanolamine N-methyltransferase. Kennedy B, Elayan H, Ziegler MG. Hypertension. 21(4): 415-9, 1993.

Propranolol reduces rat dopamine-beta-hydroxylase activity and catecholamine levels. Elayan H, Kennedy B, Ziegler MG. Eur J Pharmacol. 3; 212(2-3): 259-62, 1992.

Epinephrine synthesis by rat arteries. Kennedy B, Elayan H, Ziegler MG. Am J Hypertens. 4(1 Pt 1): 45-50, 1991.

Elayan H. Sources of urinary catecholamines in renal denervated transplant recipients. Ziegler MG, Morrissey EC, Kennedy B. J Hypertens. 8(10): 927-31, 1990.

Epinephrine synthesis in the rat iris. Elayan H, Kennedy B, Ziegler MG. Invest Ophthalmol Vis Sci. 31 (4): 677-80, 1990.

Lung epinephrine synthesis. Kennedy B, Elayan H, Ziegler MG. Am J Physiol. 258 (4 Pt 1): L227-31, 1990

Epinephrine synthesis in rat skin by an N-methyltransferase. Elayan H, Kennedy B, Ziegler MG. Arch Dermatol Res. 282 (3): 194-7, 1990.

Cardiac atria and ventricles contain different inducible adrenaline synthesising enzymes. Elayan HH, Kennedy BP, Ziegler MG. Cardiovasc Res. 24(1): 53-6, 1990.

Epinephrine synthesis by an N methyltransferase in rat liver. Elayan H, Kennedy B, Ziegler MG. Gastroenterology. 98(1): 152-5, 1990.

Rat renal epinephrine synthesis. Ziegler MG, Kennedy B, Elayan H. J Clin Invest. 84(4): 1130-3, 1989

Ziegler MG, Kennedy B, Elayan H. Extraadrenal adrenaline formation by two separate enzymes. Experientia. 45(8): 718-20, 1989.

Gharaibeh MN, Elayan HH, Salhab AS. Hypoglycemic effects of *Teucrium polium*. *J Ethnopharmacol*. 24(1): 93-9, 1988.

Ziegler MG, Kennedy B, Elayan H. A sensitive radioenzymatic assay for epinephrine forming enzymes. *Life Sci*. 43(25): 2117-22, 1988.

Some pharmacological properties of Al-Ja'adeh Plant. Elayan, .H., Salhab, A.S. & Abu Rumeileh, b. *Dirasat*, 8, 131-138, 1981.

A study on smoking in Jordan. Salhab, A.S., Elayan, H.H., Z& Zmeili, S.M. *Dirasat* 9, Nov. 2, 157-168, 1982.

A study on caffeine consumption in Jordan. Elayan, H.H., Salhab, A.S., & Zmeili S.M. *Jordan Medical Journal*, 19, 127-137, 1982.

Ramadan fastin and catecholamines excretion. Elayan, H.H. *Dirasat*, 12, 93-100, 1985.

The acute toxicity of the juice of *Ecballium elatrium* (L.) A. Rich. A.S. Salhab, H.H. Elayan, M.N. Gharaikbeh and S. Amr. *Dirasat* 13(11): 91-99, 1986.

Crystalline isolation and physiochemical characterization of guaiaol as a major constituent of an active spasmolytic fraction of the essential oil of *Teucrium polium* (L.). A.S. Salhab, H.H. Elayan and U.H. Strenstrom. *Dirasat* 14 (6): 93-101, 1987.

Effect of cigarette and pipe smoking on heart rate, blood pressure and urinary excretion of VMA. Hamzeh Elayan. *Dirasat* 14(6): 23-30, 1987.

Abstracts:

1. A study on caffeine consumption in Jordan. A.S. Salhab, H. Elayan and S. Zmeili. *the Pharmacologist*, 23(3), 421, 1981.
2. A study on smoking in Jordan. A.S. Salhab, H. Elayan and S. Zmeili. *the Pharmacologist*, 24(3), 217, 1982
3. The Pharmacological activity of the volatile oil of *Teucrium polium* L. plant. a.S. Salhab, H.h. Elayan and R. Madden. *The Pharmacologist* 25(3), 1983.

4. Investigations in three medicinal plants used in Jordan folklore medicine A.S. Salhab, H.H. Elayan, M.N. Gharaibeh. The fourth Jordanian Medical Conference, Jordan Medical Association 6th - 8th March, 1985, Amman-Jordan
5. The acute toxicity of the juice of the plant *Ecballium elatrium* (L.) A. Rich. M. Gharaibeh, A.S. Salhab, H. Elayan and S. Amr. *the Pharmacologist* Vol. 27 No. 3, 259, 1985
6. Effects of the crude juice of *Ecballium elatrium* (L.) A. Rich on bilirubin level in the main bile duct ligated rats. H. Elayan, A. Salhab, and M. Gharaibeh. *The Pharmacologist*, Vol. 27, No. 4, 922, 1985.
7. Effects of cigarette and pipe smoking on heart rate, blood pressure and urinary excretion of VMA. H.H. Elayan, *The Pharmacologist* 28(3): 203 (1986).
8. The hypoglycemic and anorexic actions of *Teucrium polium* L. in rats. Munir Gharaibeh and Hamzeh Elayan. *The Pharmacologist* 28(3): 164 (1986).

