

CURRICULUM VITAE  
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NAME: MAHMOOD VESSAL

EDUCATION:

1968

Ph.D. Biochemistry and Nutrition, Virginia Polytechnic Institute and state University, Blacksburg, Va. ( Dissertation: Metabolism of cellulose dextrans by Cellvibrio gilvus with emphasis on the role of cellobiose phosphorylase and transglucosylases.

June 1964

M.S., Food Technology and Nutrition. Minor-Biochemistry, American University of Beirut (Thesis: protein quality and free and bound gossypol content of some Middle Eastern cotton-seed meals with emphasis on the essential amino acid content and biological quality of the meals).

June 1962

B.S., Agriculture, American University of Beirut, Lebanon.

FELLOWSHIPS AND ASSISTANTSHIPS:

1984-1985

Research Associate, Department of Biochemistry and Nutrition, Virginia Polytechnic Institute and state University, Blacksburg, VA.

June 1972-Sept.1972

Research Associate, Department of Biochemistry, University of California, Berkeley, CA.

1970-1971

Research Associate, Department of Biochemistry, University of California, Berkeley, CA.

1964-1967

Graduate Research Assistantship, Department of Biochemistry and Nutrition,

Virginia polytechnic Institute and state University, Blacksburg, Va.

1958-January 1964

Scholarship from (American) Agency for International Development to study at the American University of Beirut, Lebanon.

ACADEMIC POSITIONS HELD:

2004-2005

Visiting Professor, Department of Physiology, University of Manitoba, Winnipeg, MB, Canada. Worked in collaboration with Professor L J Murphy on the inhibitory effect of prohibitin on pyruvate carboxylase activity of mouse adipocytes.

1997-1998

Research fellow, Department of metabolic medicine, Division of Investigative sciences, Imperial college, Hammersmith Hospital, London W12, U.K.

1990-1991

Visiting professor, Department of Biochemistry and Nutrition, Virginia Polytechnic Institute and State University, Blacksburg, Va. (on Sabbatical leave from Department of Biochemistry, Shiraz University of Medical Sciences, Shiraz, Iran). Worked in collaboration with professor G.E. Bunce on the effect of Zn deficiency on

- the activity of Liver RNA Polymerase II activity in male rats.
- Summer 1988 Visiting professor, department of Biochemistry, University of Queensland, Brisbane, Australia.
- 1984-1985 Research Associate, Department of Biochemistry, Virginia polytechnic Institute and state University, Blacksburg, VA. (on sabbatical leave from Department of Biochemistry, Shiraz University, Shiraz, Iran). Worked in collaboration with professor G.E. Bunce on the roles of vitamin B<sub>6</sub> and Zn in estrogen uptake and expression by the rat uterus.
- 1978- 1979 Visiting Professor, Liver Research Unit Department of Medicine, University of California, San Francisco. Worked in collaboration with Dr. D.M. Bissell on the effect of fructose utilization on the level of cytochrome P-450 in cultured hepatocytes from adult rats.
- 1974- date Professor of Biochemistry, Shiraz University, Shiraz, Iran. Major duties included teaching biochemistry to Medical, veterinary, Dental, paramedical and Graduate students, in addition to supervising M.S. students research and theses.
- 1970-1974 Associate professor, Department of Biochemistry, Shiraz University, Shiraz, Iran. Shared teaching of Biochemistry courses to Medical, Dental and Nursing students with two other colleagues. Also taught part of two Graduate Biochemistry courses and supervised M.S. students' research and theses.

June 1972-Sept.1972.

Research Associate, Department of Biochemistry, University of California, Berkeley, CA. Worked in collaboration with the late professor W.Z. Hassid on the purification of glucosamine 6-P N-acetyl transferase from mung bean seeds (on leave of absence from Pahlavi University).

1970-1971

Research Associate, Department of Biochemistry, University of California, Berkeley, CA, Worked in collaboration with the late professor W.Z. Hassid on the purification of L-glutamine: D-fructose-6-P Amidotransferase from mung bean seeds (on sabbatical leave from Pahlavi University).

1967-1970

Assistant professor, Department of Biochemistry, Medical Faculty, Pahlavi University, Shiraz, Iran. Taught one third of two semester biochemistry course for medical and dental students, supervised two MS. students, taught one third of one semester course in Advanced Biochemical Techniques and one third of a graduate one semester enzymology course, performed research on the enzymes of hydatid cyst fluid.

1964-1967

Research Assistant, Department of Biochemistry and Nutrition, Virginia Polytechnic Institute and State University, Blacksburg, Va.

Jan. 1964-May 1964

Assistant Instructor, Department of Food Technology and Nutrition, American University of Beirut, Lebanon.

ADMINISTRATIVE EXPERIENCES:

- Oct. 1991-1996                      Director of Graduate Studies, Shiraz University of Medical Sciences.
- Oct. 1991-Oct.1992                  Chairman, Biochemistry Department, Shiraz University of Medical Sciences.
- Oct.1985-Sept.1990                  Chairman, Biochemistry Department, Shiraz University of Medical Sciences.
- 1981-1984                              Biochemistry Consultant to Clinical Chemistry Laboratory of the Pathology Department, Nemazee Hospital, Shiraz University Medical School, Shiraz, Iran. Supervised and revised some of the routine clinical chemistry tests done in a 250-bed hospital affiliated with Shiraz University. Supervised the development of some clinical tests not previously performed at that clinical laboratory.
- August 1980- Sept.1980              Acting Dean, School of Graduate Studies, Shiraz University, Shiraz, Iran. Arranged graduate council meetings, reviewed files for more than 250 applicants for admission to graduate school, Also made decisions on assistantships.
- 1973-1974                              Acting chairman, Department of Biochemistry, Pahlavi University, Shiraz, Iran. In charge of a department with 3 Ph.D.'s, two instructors (M.S.) and 8-10 technical and office staff. Attended chairmen of departments meetings, prepared departmental budgets, supervised employment of new staff members, ordered chemicals

and equipments, filed and reported the final grades of students taking biochemistry courses and advised university authorities on promotion of biochemistry department staff. Arranged written exams and interviews for the selection of graduate students for M.S. program in biochemistry.

1979-1981

Chairman (Secretary of Biochemistry Department Council) Dept. of Biochemistry, Shiraz University (formerly Pahlavi University), Shiraz, Iran. Responsibilities included the items discussed in the previous paragraph.

COMMITTEES AND OTHER OFFICES:

2006- 2007

Member Scientific and Reviewing Committee and member of Executive Committee, The 9<sup>th</sup> Iranian Congress of Biochemistry and the 2<sup>nd</sup> International Congress of Biochemistry and molecular Biology, Oct. 29- Nov.1, 2007.

2007- date

Copy Editor, Iranian Journal of Immunology, a journal indexed by PubMed.

February 2002- 2004

Director of University Publication Committee, Shiraz University of Medical Sciences, Shiraz, Iran.

October 2000-2004

Member University Publication Committee, Shiraz University of Medical Sciences, Shiraz, Iran.

1998- date

Member, Board of consultants, Archives of Iranian Medicine, a quarterly journal indexed By Pubmed.

May 1992-1994

Member, University Bursary committee, Shiraz University of Medical Sciences, Shiraz, Iran.

May 1992-1994

Member, University Council, Shiraz University

	of Medical Sciences, Shiraz, Iran.
. Nov.1991- 2004	Member, University Research Council, Shiraz University of Medical Sciences, Shiraz, Iran.
Oct.1991-1996	Member, Provost Committee, Shiraz University of Medical Sciences.
Oct.1991-1996	Chairman, Graduate committee, Shiraz University of Medical Sciences.
1985-1988 & 1995	Member, Shiraz University Medical Congress.
1982-1983	Member, Faculty Research Committee, Faculty of Medicine, Shiraz University, Shiraz, Iran.
1979-1980	Member, Graduate school Committee, Shiraz University, Shiraz, Iran.
1975-1977	Chairman, University Publication Committee, Pahlavi University, Shiraz, Iran.
1974-1977	Member, University Publication Committee, Pahlavi University, Shiraz, Iran.
1974-1975	Member, Faculty Research Committee, Medical Faculty, Pahlavi University, Shiraz, Iran.
1973-1974	Member, Faculty promotion committee, Medical Faculty, Pahlavi University, Shiraz, Iran.

TEACHING EXPERIENCES: During my service at Shiraz University of Medical Sciences, I have taught several parts of medical, dental and pharmacy students Biochemistry and advanced courses for MSc. and Ph.D students including:

1.Carbohydrate chemistry and metabolism, PH, buffers and amino acid chemistry, amino acid metabolism, enzyme chemistry and kinetics, vitamins and coenzymes, nucleic acid chemistry and metabolism , Plasma proteins, heme synthesis and degradation, and bioenergetics.

2. Inborn errors of metabolism of amino acids, carbohydrates and nucleic acids etc for MSc. Students.
3. Hormone biochemistry for MS and Ph.D. students.
4. Biochemical techniques such as paper, thin layer and column and gas chromatography, electrophoresis, spectrophotometry, ultracentrifugation and radioisotope techniques for MS Students.
5. Enzymology course for MS Students.
6. Steroid Receptors for Ph.D. students.
7. Biochemistry of Trace Elements for Ph.D. students.

## PUBLICATIONS

1. Mostafavipour, Z, Zal, F, Monabati, A and M. Vessal . The protective effects of a combination of quercetin and vitamin E against cyclosporine A-induced oxidative stress and hepatotoxicity in rats. *Hepatol. Research* ( Online on Oct. 9, 2007).
2. Zal, F, Mostafavipour, Z. and Vessal, M. Comparison of the effects of vitamin E and/or quercetin in attenuating chronic cyclosporine A- induced nephrotoxicity in male rats. *Clin. Exptl. Phamacol. Physiol.* 34, 720- 724, 2007.
3. Vessal, M, Mishra, S, Moulik, S, and Murphy, L J. Prohibitin attenuates insulin- stimulated glucose and fatty acid oxidation in adipose tissue by inhibition of pyruvate carboxylase . *FEBS Journal* 273, 568- 576, 2006.
4. Kamali- Sarvestani, E, Nikseresht, AR, Aliparasti, M. R. and M. Vessal. IL- 8 ( -251 A / T ) and CXCR2 ( +1208 C /T ) gene polymorphisms and risk of multiple sclerosis in Iranian patients. *Neurosci Lett.* 404, 159- 162, 2006.
5. Seghatoleslam, A, Nemat- Gorgani, M and Vessal, M. Adsorptive immobilization of microsomal membranes. *Iranian J. Sci. And Technol, Transaction A* 29, 181-187, 2005.
6. Vessal, M, Khoshdel, Z, and Fathi, N. Effect of aqueous extract of *Physalis alkekengi* fruits on the activity of ovarian 3 beta and 20 alpha hydroxysteroid dehydrogenases in late pregnancy in rat. *Iranian J. Med. Sci.* 29, 175- 179, 2004.
7. Vessal, M., Hemmati, M., and Vasei, M. Antidiabetic effects of quercetin in streptozocin- induced diabetic rats. *Comp. Biochem. Physiol.* 135C (3 ), 357- 364, 2003.



8. Vessal, M., Zal, F. and Vasei, M. Effects of *Teucrium polium* on oral glucose tolerance test, regeneration of pancreatic islets and activity of hepatic glucokinase in diabetic rats. *Arch. Iranian Med.* **6**, 35 – 39, 2003

9. Zal, F., Vasei, M., Rasti, M. and Vessal, M. Hepatotoxicity associated with hypoglycemic effects of *Teucrium polium* in diabetic rats, *Archives of Iranian Med.* **4**, 188 – 192, 2001.

10. Vessal, M., Jaberipour, M., Jalali, S. and Rasti, M. Hepatic arylsulfatases A and B activities in streptozocin – induced diabetic rats. *Arch. Iran. Med.* **3**, 174 – 177, 2000.

11. Vessal, M. , Akmal, M. and Bambaee – row, N . Thin layer chromatographic detection of steroid and alkaloid glycosides in *Physalis alkekengi* fruits, *Arch. Iran. Med.* **2**, 28 – 30, 1999.

12. Kamali sarvestani, E., Khezri, A., Vessal, M. and Ghaderi, A. A simplified and reproducible two – step method for the purification of prostate specific antigen, *Iranian Biomedical Journal* **3**, 87 – 91, 1999.

13. Vessal, M. and Jaberipour, M. Partial purification and kinetic properties of three different D – glucosamine 6 – P: N – acetyltransferase from human placenta. *Comp. Biochem. Physiol.* **121B**, 379 – 383, 1998.

14. Vessal, M., Rasti, M. and Kooshesh. Modulation of the pituitary and basomedial hypothalamic lysyl – aminopeptidase activities by B – estradiol and / or an aqueous extract of *Physalis alkekengi* fruits. *Comp. Biochem. Physiol.* **115B**, 267 – 271, 1996.

15. Vessal, M. and Tabei, S.M.B. Partial purification and kinetic properties of cytoplasmic malate dehydrogenase from ovine liver *E. granulosus* protoscolices. *Comp. Biochem. Physiol.* **113B**, 757 – 763, 1996.

16. Vessal, M. and Rasti, M. Comparison of the effects of an aqueous extract of *Physalis alkekengi* fruits and / or various doses of B – estradiol on rat pituitary and hypothalamic glucose 6 – P dehydrogenase activities. *Iranian J. Med. Sci.* **20**, 152 – 158, 1995.

17. Vessal, M. and Yazdanian, M. Comparison of the effects of an aqueous extract of *Physalis alkekengi* fruits and / or various doses of B – estradiol on rat uterine glucose 6 – P dehydrogenase activity. *Comp. Biochem. Physiol.* **112C**, 229 – 236, 1995.

18. Vessal, M. and Taher, M. Partial purification and kinetic properties of human placental cytosolic aspartate transaminase. *Comp. Biochem. Physiol.* **110B**, 431- 437, 1995.
19. Vessal, M., Mostafavi – Pour, Z. and Kooshesh, F. Age and sex dependance of the effects of an aqueous extract of *Physalis alkekengi* fruits on rat hepatic glucose 6 – P dehydrogenase activity. *Comp. Biochem. Physiol.* **111B**, 675 – 680, 1995.
20. Vessal, M. and Bambaee – Row, N. Partial purification and comparison of the kinetic properties of ovine liver *E. granulosus* hydatid cyst fluid malate dehydrogenase and the cytoplasmic enzyme from the host liver. *Comp. Biochem. Physiol.* **107B**, 447 – 451, 1994.
21. Bunce , G. E. , Lytton, F. , Gunsekara, B. , Vessal, M. and Kim, C. Molecular basis for abnormal parturition in zinc deficiency in rats. In : Nutrient Regulation during pregnancy, lactation and Infant Growth, Allen, L. , King, J. and Lonnerdal, B. (eds), Plenum Press, New York, pp. 209 – 214, 1994. (Book chapter).
22. Vessal, M. and Cooksley, W.G.E. Decreased androgen receptor – ligand binding affinity in hepatocellular carcinomas. *Iranian J. Med. Sci.* **18**, 40 – 47, 1993.
23. Vessal, M. and Gharai, N. Partial purification and properties of L- glutamine: D- fructose 6-P from human placenta. *Sci. J. IR Iran* **3**, 5-10, 1992.
24. Vessal, M. , Mehrani, H.A. and Omrani, G.H. Effects of an aqueous extract of *Physalis alkekengi* fruits on estrous cycle, reproduction and uterine creatine kinase BB-isozyme in rats. *J. Ethnopharmacol.* **34**, 69-78, 1991.
25. Vessal , M. and Akmal, M. Enzyme levels in the sera and erythrocytes of patients with visceral leishmaniasis. *Med. J. IR Iran* **4**, 129-131, 1990.
26. Bunce, G.E. and Vessal, M. Effect of zinc and / or pyridoxine deficiency upon oestrogen retention and estrogen receptor distribution in the rat uterus. *J. steroid Biochem.* **26**, 303-308, 1987.
27. Vessal, M. , Choun, M.O. , Bissel, M.J. and Bissell, D.M. Fructose utilization and altered cytochrome P-450 in cultured hepatocytes from adult rats. *Biochim Biophys. Acta* **633**, 201-210, 1980.

28. Tabatabai, M., Vessal, M. and Cohanin, N. Effect of saline extract of ovine hydatid cyst scolices in sheep: Blockage of response by compound 48 / 80 . *Annales de parasitologie Humaine et comparee* **55**, 503-510, 1980.
29. Vessal, M. and Abdolrasulnia, R. Partial purification and properties of ovine liver Echinococcus granulosus phosphoglucose isomerase. *Clin. Chim. Acta* **68**, 59-65, 1976.
30. Faradji, B. Vessal, M. and Ghalambour, M.A. Partial purification and properties of ovine liver hydatid cyst fluid and healthy ovine liver phosphoglucose isomerases. *Clin. Chim. Acta* **53**, 299-304, 1974.
31. Vessal, M., Rezai, H.R. and Pakzad, P. Leishmania species: Fatty acid composition of promastigotes. *Exptl. Parasitol.* **36**, 455-461, 1974.
32. Vessal, M. and Hassid, W.Z. Partial purification and properties of D-glucosamine 6- P: N- acetyltransferase from Phaseolus aureus. *Plant physiol.* **51**, 1055-1060. 1973.
33. Vessal, M. , Zekavat, S. Y. and A.A. Mohammadzadeh. Lipids of Echinococcus granulosus protoscolices. *Lipids* **7**, 289-296, 1972.
34. Vessal, M. and Hassid, W.Z. Partial purification and properties of L-glutamine: fructose 6P amidotransferase from Phaseolus aureus. *Plant Physiol.* **49**, 977-981, 1972.
35. Vessal , M. and M. A. Ghalambour. Studies on the enzymes of hydatid cyst fluid. *Israel J. Med. Sci.* **6**, 383-387, 1970.
36. King , K. W. , and M . Vessal . Enzymes of cellulase complex. *Advances in chemistry series* **95**, 7-25, 1969.

### **Conferences: - Abstracts**

1. Zal, F., Mostafavi- Pour, Z., Vessal, M. and Torabinejad, S. Protective roles of antioxidant co- supplementation on nephrotoxic effects of cyclosporine

A. The 9<sup>th</sup> Iranian Congress of Biochemistry and the 2<sup>nd</sup> International Congress of Biochemistry and Molecular Biology, p.34, Oct. 29- Nov.1, 2007, Shiraz, Iran.

2. Mostafavi- Pour, Z., Zal, F., Monabati, A. and Vessal, M. The protective Role played by antioxidants in cyclosporine A- induced oxidative stress in rat liver: The morphological study. . The 9<sup>th</sup> Iranian Congress of Biochemistry and the 2<sup>nd</sup> International Congress of Biochemistry and Molecular Biology, p.291, Oct. 29- Nov.1, 2007, Shiraz, Iran.

3. Mishra, S., Vessal, M., Moulik, S., and Murphy, L. J. Prohibitin attenuates insulin stimulated glucose and fatty acid oxidation in adipose tissue by inhibition of pyruvate carboxylase. 66<sup>th</sup> annual meeting of American Diabetes Association, Washington D. C., June 11- 13, 2006.

4. Hemmati, M., Vessal, M., and Vasei, M. Antidiabetic effects of quercetin in streptozocin- induced diabetic rats. First seminar of medicinal and natural products chemistry, Shiraz University of medical sciences, May 11- 12, 2005.

5. Zal, F., Vasei, M., Rasti, M. and Vessal, M. Hepatotoxicity associated with the hypoglycemic effects of Teucrium polium in diabetic rats. The First International Congress of Biochemistry and Molecular Biology and the 8<sup>th</sup> Iranian Congress of Biochemistry , September 11- 15, 2005, Tehran, Iran.

6. Fathi, N. and Vessal, M. Effect of intraperitoneal injection of the aqueous extract of winter cherry fruits on days 8- 15 of pregnancy on serum progesterone level of female rats. The First International Congress of Biochemistry and Molecular Biology and the 8<sup>th</sup> Iranian Congress of Biochemistry, September 11-15, 2005, Tehran, Iran ( Abstract published in Clin. Biochemistry 38, P. 851, 2005 ).

7. Zarifkar, A, Tabei, S. Z., Vessal, M , Tanideh N, et al. Effect of heparanase administration on skin autograft healing in rat. 17<sup>th</sup> Intl. Congress of Geographic Medicine November 23- 25, 2004, Shiraz, Iran.

8. Zal, F., Vessal, M., Vasei, M., and Rasti, M. Anti diabetic effects of an aqueous extract of Teucrium polium in streptozocin – induced diabetic rats. Sixth Iranian Congress of Biochemistry, Iran University of Medical Sciences, Tehran, Iran, Oct. 22- 25, 2001.

9. Jabberi-pour, M. and Vessal, M. Partial purification and kinetic properties of multiple molecular forms of Human placental D-glucosamine 6-P:N-

acetyltransferase. The Fourth Iranian Biochemistry Congress, Babol Univ. of Med. Sci., Babol, Iran, October 19-22, 1997.

10. Vessal, M., Rasti, M. and F. Kooshesh. of Lysyl-aminopeptidase activities of the rat pituitary and basomedial hypothalamus by an aqueous extract of *Physalis alkekengi* fruit and / or various doses of  $\beta$ -Estradiol. The Fourth Iranian Biochemistry Congress, Babol University of Medical Sci., Babol, Iran Oct. 19-22, 1997.

11. Tabei, S.M.B. and M. Vessal. Partial purification and kinetic properties of cytoplasmic malate dehydrogenase from ovine liver *E. granulosus* protoscolices. 12th Iranian congress of physiology and pharmacology, Iran University of Medical Sciences, Tehran, Iran. November 6-9, 1995.

12. Mostafavi-Pour, Z., Kooshesh. F. and M. Vessal, antiestrogenic effect of an aqueous extract of *physalis alkekengi* fruits on rat liver glucose 6-P dehydrogenase. *Sixth Intl. Congress of Geographic Medicine*, Shiraz, Iran. May 3-6, 1993.

13. Oveysi-shad, H., Ravanshad, Sh., Vessal, M., Zeighami, B., Javidian, I. And A. Ayatollahi, Effect of nutritional status of lactating mothers on fat and mineral content of their milk, 5th International congress of Geographic Medicine, April 12-16, 1992, Shiraz, Iran.

14. Mohammadi, G.A. and M. Vessal, Cyclic variation of the activity of creatine kinase and its isozymes in rat uterine muscle during estrus cycle, 3rd Intl. Congress of Geographic Medicine, Shiraz, Iran. April 1-4, 1988.

15. Vessal, M. and G.E. Bunce, Effect of zinc and / or pyridoxine deficiency upon estrogen retention and estrogen receptor distribution in the rat uterus, 3rd Intl. Congress of Geographic Medicine, Shiraz, Iran. April 1-4, 1988.

16. Akmal, M. and M. Vessal, Enzymatic studies in kala-azar patients from Fars Province in Iran, 3rd Intl. Congress of Geographic Medicine, Shiraz, Iran. April 1-4, 1988.

17. Tabatabai, M. and Vessal, M. Respiratory and Cardiovascular responses to intravenous administration of ovine hydatid scoleces extract in Sheep, 8th Pahlavi Medical Congress, May 3-5, 1977, Shiraz, Iran.

18. Bambaee-Row, N. and M. Vessal, Purification and properties of ovine Liver hydatid cyst fluid and healthy ovine liver malate dehydrogenases, 7th Pahlavi Med. Congress, April 27-29, 1976, Shiraz, Iran.

19. Vessal, M. and R. Abdolrasulnia, purification and properties of ovine liver *Echinococcus granulosus* protoscolices phosphoglucose isomerase, 7th Pahlavi Medical congress, April 27-29, 1976.

20. Vessal, M., Rezai, H.R. and P. Pakzad, Fatty acid Composition of Leishmania species, 5th Pahlavi Medical Congress, April 23-25, 1974.

21. Vessal, M., Faradji, B., and M.A. Ghalambor, *Proc. 3rd. Intl. Congr. Parasitol. Vol. 3, 1549*, Munich, 25-31 August 1974.

22. Vessal, M. and W.Z. Hassid, Partial purification and properties of D – glucosamine 6 – P N-acetyl transferase from *phaseolus aureus*, 4<sup>th</sup> Pahlavi Medical Congress, April 24-26, 1973, Shiraz, Iran.

23. Abdolrasulnia, R., Vessal, M. and M.A. Ghalambor, Partial purification and properties of ovine duodenal alkaline phosphatase, 4<sup>th</sup> Pahlavi Med. Congress, April 24-26, 1973, Shiraz, Iran.

24. Faradji, B., Ghalambor, M.A., Keshavarz, R. and M. Vessal, Partial purification of phosphohexose Isomerase from ovine liver hydatid cyst fluid, 4<sup>th</sup> Pahlavi Med. Congress, April 24-26, 1973, Shiraz, Iran.

25. Vessal, M., fatty acid Composition of leishmania organisms, symposium in parasitic diseases, sponsored by central treaty organization and Pahlavi University Medical School, Dec. 10-12, 1973, Shiraz, Iran.

26. Vessal, M., Zekavat, S.Y., and A.A. Mohammadzadeh K. *Proc. 11<sup>th</sup> Intl. Congress for Fat Res.*, Gotheburg, Sweden, 1972.

27. Vessal, M., the Metabolism of Cellulose Dextrins by *Cellvibrio gilvus*, *Disseration abstracts 68* , 570, 1968.

### **THESIS SUPERVISION:**

I have supervised 18 M. Sc. theses in biochemistry as major advisor. I have been in the thesis committee of 9 biochemistry graduate students, 10 D.V.M. students, 10 chemistry graduate students and one biology student. Presently, I am a coadvisor of a Ph.D. Student 's Dissertation.

### **REFERENCES:**

1. Dr. G.E. Bunce, Ph.D.  
Professor of Biochemistry, Department of Biochemistry and anaerobic microbiology, Va. Tech,  
Blacksburg, Va. 24061, U.S.A.
2. Dr. D. Montgomery Bissell, M.D.  
Liver Center Laboratory,  
Building 40, Room 4102  
San Francisco General Hospital  
San Francisco, California 94110, U.S.A.
3. Dr. M. Ghatei, Ph.D., Professor of Metabolic Medicine, Imperial  
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### **PRESENT ADRESS:**

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