

Personal Details :

Name: Dr. Ezzat Mohammed Hassan

Date of birth: 14/1/1950

Marital status: Married; have four children

Home address: 72 Moharem Bey St. Alexandria, Egypt.

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Job : Professor of Immunology; Department of Immunology

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Affiliation: A member of the Egyptian Association of Immunologists

Qualification:

- * 1974, MB, ChB (MD) Faculty of Medicine, Alexandria University.
- * 1979, Master Degree of Immunology (tumor immunology), Med. Res. Inst., Alexandria University.
- * 1983, Ph.D. of Immunology (Clinical immunology) Med. Res. Inst., Alexandria University.

Appointments:

- * **February 1977 till now:** I have been appointed, at the Department of Immunology, Medical Research Institute, University of Alexandria in the following positions :

1. · **August 2004 Till Now : The Dean**
2. · **October 1999 - August 2004 : Vice-Dean For Post Graduate Studies & Research**
3. · **January 1994 - October 1999 : Professor of Immunology**
4. · **January 1994 - January 1997: Head of the department**
5. · **November 1988 - December 1993: Assist Professor.**
6. · **November 1983 - November. 1988: Lecturer.**

7. . **August 1979 - November 1983: Assistant Lecturer.**
8. . **February 1977 - August 1979: Post-graduate student.**
9. . * **March 1975 - February 1976 : House Officer at Alexandria University Hospitals.**

N.B. May 1988 – September 1993: I worked as an Immunologist; Department of Immunology and Allergy at the Regional Laboratory and Blood Bank of the Eastern province, Dammam, Kingdom of Saudi Arabia.

Courses, Meetings & Conferences:

- * WHO course on immunology and immunopathology of infectious diseases? 11th Spet. To 18th October 1984 Lausanne, Switzerland.
- * The Mediterranean Cancer conference. November 5-8, 1980, Cairo, Egypt. **Papers presented:**
 - a. *Immunohistochemical localization of carcinoembryonic Antigen (CEA) in cancer bladder using immunoperoxidase technique.*
 - b. *Location of CEA in different Bilharzial proliferative lesions in Urinary bladder.*
- * 13th International Cancer Congress. September 8-15, 1983, Seattle, Washington, USA. **Paper presented:** *"Carcinoembryonic Antigen in Bilharzial Cancer of the Bladder in Egypt: Location, Isolation and Antigenicity".*
- * 2nd African, Mediterranean and Near East Congress of Clinical Chemistry. November 20-24, 1983, Cairo, Egypt. **Papers presented:**
 - a. *Studies of Different Immunological Parameters in Rheumatoid Arthritis Patients: 1-Variation with Diseases Activity.*
 - b. *Studies of Different Immunological Parameters in Rheumatoid Arthritis Patients: 2-Therapeutic Effects of Two Immunologically Antagonistic Drugs.*
- * The third Medical Research Conference October, 25-26, 1986, Alex, Egypt. **Papers presented:**
 - a. *Effects of single and repeated exposures to halothane and enflurane on immune system.*
 - b. *Immunological changes in mice infected with Vampirolepis nana.*
- * The First Saudi Rheumatology Symposium, April 14-16 1993, Al-Khobour, Saudi Arabia. **Paper presented:** *"Immunological findings in Saudi Patients with SLE.*

- * The First International Summer Symposium in Tropical Hematology. August 24-26, 1994, Alexandria, Egypt.
- * The Seventh Medical Research Conference and the Third Egyptian Italian Workshop on Environment and Health. October 29-30, 1994, Alexandria Egypt.
- * The SRP, 1995; International conference on Schistosomiasis, March 12-16, 1995, Cairo, Egypt.
- * The Third Conference of Egyptian Association of immunologists, March 28-29, 1996; Cairo, Egypt.

List Of Publications:

1. Hassan EM, El-Sayed LH, Araffa A, Abdel-Aal G, El-Kharadly ME. Location of CEA in different bilharzial proliferative lesions in urinary bladder. Mediterranean cancer Congress, Abst. N. 63, p: 45, 1980.
2. El-sayed LH, Hassan EM, Araffa A, Abdel-Aal G, El-Kharadly ME. Immunohistochemical localization of carcinoembryonic antigen (CEA) in cancer bladder using immunoperoxidase technique. Mediterranean Cancer Congress, Abst No. 64, p: 46, 1980.
3. El-Sayed LH, Hassan EM, Amin AM, Ismail AA. Immunocytochemical studies of carcinoembryonic antigen (CEA) in Bilharzial bladder. Neoplasma, 29: 233, 1982.
4. Zaki AM, El-Sayed LH, Hassan EM. Abdel-Rahman ZA. Impaired immune functions in Frozen shoulder. Bull Alex Faculty Med., 18: 891, 1982.
5. El-Akkary E, El-Sahawi E, Metwally A, El-Sayed LH, Hassan EM, Abou-Rawash N. Serum proteins and immunoglobulins in bilharzial children and the effect of splenectomy. Bull Alex Faculty Med., 19: 113, 1983.
6. El-Sayed LH, Hassan EM, Demian SR, El-Kharadly ME, Abou-Rawash N. Carcinoembryonic antigen in Bilharzial cancer of the bladder in Egypt: Location, isolation and antigenicity 13th International Cancer Congress (Washington), Abst No. 1130, p: 200, 1983.
7. El-Sayed LH, Hassan EM, El-Hefny S, El-Banawy S, Foda H. Studies of different immunological parameters in rheumatoid arthritic patients: I. Variation with disease activity. Egypt J Med. Sci, 4:293, 1983.
8. El-Sayed LH, Hassan EM, El-Hefny S, El-Banawy S, Foda H. Studies of Different immunological parameters in rheumatoid arthritic patients: II. Therapeutic effects of two immunologically antagonistic drugs. Egypt J Med. Sci, 4: 311, 1983.
9. Saad AA, El-Kholy Z, Hassan EM, Salem ME, El-Toukhy MA, Ebeid SA, Abou-Basha LM, Dessoki A. Serum immunoglobulins levels and β -glucuronidase activity in hepatosplenic bilharziasis. Bull High Inst Public Health, 14:7, 1984.

10. El-Sayed LH, Abdel-Rahman ZA, Hassan EM, Hamouda N, Ragab M. Clinical importance of lymphocytic surface markers in childhood acute lymphocytic leukemia. *Bull High Inst Public Health*, 15:1, 1985.
11. Zaher R, El-Banawy S, Hamdy L, El-Hefny S, Kandil S, El-biali, Hassan EM. Some immunological studies in patients with chronic renal failure. *J Med Res Inst*, 6:65, 1985.
12. Mahmoud S, Hammad HM, Surour AH, Beshr T, Hassan EM. Serum IgE level and mitogenic response of peripheral blood lymphocytes in asthmatic children. *Egypt J Med Sci*, 7:247 1986.
13. Hassan EM, Aboul-Azm SF, Sharara AA. Lymphocyte proliferative responses in relation to DMBA (9,10 dimethyl, 1-2, benzanthracene)-induced oral squamous cell carcinoma. *J Med. Res Inst.*, 8:1, 1987.
14. El-Sayed LH, Hassan EM, Abdel-Azeem M, Demian S, Osman HA, Beshara A. Effects of single and repeated exposures to halothane and enflurane on immune system. *J Med. Res Inst.*, 8 (suppl. 2): 203, 218, 1987.
15. Abou-Bash LM, Bassiouny HK, Hassan EM, Soliman NK, El-Sayed LH. Immunological changes in mice infected with *Vampirolepis nana*. *J Egypt Soc Parasitol*, 17:633, 1987.
16. Hafez M, El-Sayed LH, El-Shennawy F, El-Morsy Z, Montaser mA, Hassan EM, Rashwan I. Inherited immunoregulatory dysfunction in extrinsic bronchial asthma. *J Asthma*, 24:271, 1987.
17. Farag Hf, Hassan Em, Salem A. Circulating immune complexes in *Fasciola* and *Schistosoma* infection. *J Med Res Inst*, 1:9, 1988.
18. Farag HF, youssef M, Hassan EM. Anti-schistosoma and anti-fasciola antibody levels in single and combined infection, *J Med Res Inst*, 9:9, 1988.
19. Hassan EM, Abdel-Rahman SZ, Farag HF. Effect of polyclonal B-lymphocyte activation and *S. mansoni* infection on splenic β -glucuronidase enzyme in mice *Bull High Inst Public Health*. 18:361, 1988.
20. Hassan EM, Sultan HM, Helal A-M, El-Sabbagh NM. Humoral Immunity in synovial fluids from patients with rheumatoid arthritis, osteoarthritis, and post-traumatic effusion. *Bull Alex Faculty Med*, 24:478, 1988.
21. Mahmoud RA, El-Saaran A, Hassan EM, Kader O, El-Sherbini E, El-Ghazzawi E. Polymorphonuclear leukocyte function in patients with lymphoma. *Bull Alex Faculty Med*, 24: 887, 1988.
22. El-Akary IM, Hassan EM, Ibrahim MS, Fahmy MS, Foda NM. Relationship between T-lymphocyte count, disease severity and bronchial hyper-reactivity in asthmatic patients. *Egypt J Med Sci*, 9: 295, 1988.
23. El-Akary IM, Hassan EM, Ibrahim MS, Fahmy MS, Foda NM. T-lymphocytes in exercise induced asthmatic attach. *Egypt J Med Sci*, 9: 304, 1988.
24. Abou-Basha LM, El-Nassery SF, Abdel-Rahman ZA, Hassan EM, Fadali GA. *Tricknella spiralis*: An experimental study on the relation between T-cell function and resistance to challenge. *J Med Res Inst*, 10:63, 1989.

25. Sultan HM, Hassan EM, Helal A-M, Kishk S. Sacroiliitis: Clinical, radiological and HLA-B27 relationship. Egypt Orthoped J, 24:151, 1989.
26. Hassan EM, Sultan HM, Rashed MM, Saad AA. β -glucuronidase enzyme activity in synovial fluid from patients with rheumatoid arthritis and osteoarthritis: Correlation with humoral immunity. Egypt Rheumatol Rehabil, 16: 169, 1989.
27. El-Mansy E, Badran F, Hassan EM. T-lymphocyte subpopulations in peripheral blood of patients with alopecia areata. Bull Alex Faculty Med, 27: 65, 1991.
28. Hassan EM, El-Sayed AI, Al-Behairy AH, Ghannam SM. T-cell subsets in vitiligo: Correlation with disease activity and lesion extent. Bull High Inst Public Health, 21: 293, 1991.
29. Hassan EM, Farag HF. Effect of lipopolysaccharide injection on worm load in mice infected with *S. mansoni* (preliminary report). J Med Res Inst, 12: 217, 1991.
30. Aref GH, Hassan IM, Hussein MH, Hassan EM, Sheira OR. Production and renal deposition of immune complexes in *S. mansoni*-infected mice after polyclonal B cell activation by bacterial lipopolysaccharide. J Med Res Inst, 13:61, 1992.
31. Hassan EM, Rahi AH. Influence of the number and the type of allergens on IgE level in allergic patients. J Med Res Inst, 13: 121, 1992.
33. Hassan EM, Rahi AH. Anti-sperm antibodies in infertile men and women. J Med Res Inst, 13: 223, 1992.
34. Morsy MR, Hussein ZM, Hassan EM, Ragab MA, Souror OA, Al-Zalabani MM. Study of some aspects of the immune status in infantile atopic dermatitis. J Egypt Soc Pharmacol Exp Ther, 11 (suppl): 927, 1992.
35. Ibrahim A, Mehaisen A, El-Shafei A, El-Arini A, El-Said LH, Hassan EM. Study of some immune factors in psoriasis. Egypt J Dermatol Venerol, 13:61, 1993.
36. Hassan EM. Routine patch testing: frequency of European standard contactants in male and female cases with allergic contact dermatitis. Bull High Inst Public Health, 23:51, 1993.
37. Hassan EM, Rahi AH. Relationship between skin reactivity and total serum IgE level in male and female allergic patients. Bull High Inst Public Health, 23:61, 1993.
38. Hassan EM, Kamel MI. Allergic impact of air pollution caused by Kuwait oil fires among the population of eastern province of Saudi Arabia. Bull Alex Faculty Med, 29:525, 1993.
39. Abel-Aziz FM, Hassan EM. Interleukin-2 and tumor necrosis factor-alpha in adult patients with measles. J Med Res Inst, 15:52, 1994.
40. Abo El-Nazar SY, Hassan EM, El-Nassery S, Abo El-Naga E, El-Temsahi M.

LL-2 activity in experimental schistosoma mansoni infection. Egypt J Immunol, 3:323, 1996

41. Hassan EM, Rashwan EA, Raafat E. In vitro schistosomicidal effect of murine macrophages activated with interferon-gamma or tumor necrosis factor. Egypt J Immuno, 4:105, 1997.
42. Hassan EM, Hassan YA, Sadek S-EA, Mousa YI . In vitro lymphocytic proliferation and production of interleukin-2 (IL-2) and gamma-interferon (IFN- γ) in uremic patients: Effects of single session of hemodialysis. J Med Res Inst, 19 (Suppl):92, 1998.
43. Balbaa M, Noor El-Deen S, Khalifa M, Hassan EM, Kandeel K. Enhancement of the catalytic and immunologic properties of porcine pepsin by dopamine. J Med Res Inst, 20:1-8, 1999.
44. El-Banawy S, El-Saaran A, Girgis R, Hassan EM, Ahmad M, Saleh E, Ragab M. Nephropathy in mixed Schistosoma mansoni and hepatitis C virus infection. Role of cryoglobulinemia. J Med Res Inst, 21:131-142, 2000.
45. Ibrahim MS, Hassan EM, El-Akkary IM, Rashwan I, Abou-Shamaa L, Mastino A. The contribution of complement activation in bronchial asthma. J Med Res Inst, 21:90-102, 2000.
46. Fathy M, Ragab MS, Hassan E, Amin G, Mostafa H, El-Lakany I, Badr G. Insulin and glutamic acid decarboxylase antibodies in chronic hepatitis (C) patients with diabetes mellitus. Alex Med J, 43:1124-1156, 2001.

Supervision Of Theses:

I. Theses for Master Degree of:

1. Pediatric:

"Study of T-cell function and serum IgE level in children with bronchial asthma"

2. Immunology:

"Study of immune complexes and polyclonal B-cell activation in Schistosoma mansoni infection in mice"

3. Clinical Physiology:

"Study of T-lymphocyte count in bronchial asthma".

4. Immunology:

"Immunological studies in asthmatic children before and after treatment with kitotifen"

5. Dermatology & Venerology:

"Cellular immunity in vitiligo"

6. Internal Medicine:

"A study of cell markers in acute lymphocytic leukemia"

7. Dermatology & Venerology:

"Pityriasis rosea: A clinical study and follow up estimation of the serum IgG, IgA, IgM and C3 during the course of the disease"

8. Dermatology & Venerology:

"Immunological studies in couples suffering from unexplained infertility"

9. Surgery:

"Circulating immune complexes in cancer breast"

10. Tropical Medicine & Hygiene:

"Toxoplasmosis during early pregnancy".

11. Dermatology & Venerology:

" Cell-mediated immunity in alopecia areata".

12. Immunology:

"Neutrophil function and serum levels of immune complexes and complement component in C3 in controlled and uncontrolled diabetic patients".

13. Parasitology:

"Immunoparasitological studies on the effect of triclabendazole on human fasciolosis"

14. Pediatric:

" Nutrophil function in pediatric nephrotic syndrome"

II. Theses for Ph.D. and MD of:

1. Pediatric:

"Study of some immunological parameters in children with cyanotic congenital heart diseases:

2. Dermatology & Venerology:

"Immunological studies in psoriasis before and after methotrexate or retinoic acid".

3. Immunology:

"T-cell subsets and functions, and HLA-DR in asthmatic multiplex families"

4. Pediatric:

"Study of T-cell subsets defined by monoclonal antibodies in infants and children with bronchial asthma"

5. Dermatology & Venerology:

"Investigations on serum antimelanocyte antibodies and hepato-intestinal functions in vitiligo"

6. Parasitology:

"Parasitological, pathological and immunological studies in combined parasitic infections in mice".

7. Dermatology & Venerology:

"Immune complexes and polymorphonuclear phagocytic function in human leprosy and in leprosy induced in experimental animals".

8. Pediatric:

"Study of some aspects of the immune status in infantile atopic dermatitis".

9. Immunology:

"Role of the complement system in bronchial asthma and effect of two inhaled anti-inflammatory agents"

10. MD (Internal Medicine) :

"Nephropathy in mixed Schistosoma mansoni and hepatitis C virus infection."

Thesis not finished:

1. MD (Internal Medicine) :

"Circulating cardiac auto-antibodies in patients with idiopathic cardiomyopathy."

2. MD (Internal Medicine)

"Study of the association between chronic viral hepatitis C and type 2 diabetes mellitus"

3. MD (Chemical Pathology):

"Evaluation of some cytokines in patients with rheumatic fever"

4. MD (Chemical Pathology) :

"The interrelation between matrix metalloproteinase-9, vascular endothelial growth factor and their inhibitors in patients with breast carcinoma"

5. Ms (Immunology) :

“ Study of interleukin-12 (IL-12) and vascular endothelial growth factor receptor-1 (VEGF-R1) as factors affecting angiogenesis in patients with Hodgkin's Lymphoma”

Experiences

Teaching experiences:

I am a member of the teaching staff in the Immunology Department, Medical Research Institute since 1983. I give lectures to the post-graduate students in Medical Research Institute and in Faculty of Medicine, Alexandria University. These lectures include different topics of immunology, both basic and clinical, such as:

1. Antigens and immunogens.
2. Immunoglobulins; structure, function and genetics.
3. Cells and organs of immune system.
4. Cell mediated immunity.
5. Tolerance, break-down of tolerance and autoimmunity.
6. Immunological reactions in health and disease.
7. Cytokines.
8. Immunodeficiency and Immunodeficiency diseases.
9. Autoimmune diseases.
10. Allergic diseases.
11. Immune suppression and potentiation
12. Immunization and prophylaxis. 13. Molecular immunology and apoptosis

This is in addition to the practical immunology to teach different immunological techniques including: ELISA, Immunofluorescence, Immunodiffusion, Agglutination, Precipitation, Immunoblot, Immunohistology, Lymphocyte Culture, Turbidimetry, Nephelometry, PCR.... etc.

Research Experiences:

During my career, I published 45 papers in different fields of immunology. In addition, I supervised the immunological part of 18 theses (master, M.D. and PhD). Three papers and 2 theses are still in progress.

I am interested in cell mediated immunity and its role in different pathological conditions. I have a good experience in various immunological techniques, including:

1. Blast transformation in response to antigens and mitogens.
2. Count of lymphocytes and their subsets by different methods such as immunofluorescence, and flow cytometry.
3. Immunofluorescence for detection of various auto-antibodies and precipitated immune complexes in tissues.
4. ELISA, turbidimetry & Nephelometry for measurement of immunoglobulins, complement components, tumor markers, cytokines, adhesion molecules, auto-antibodies.... etc.
5. Agglutination, precipitation and immune-diffusion.
6. Electrophoresis and immunoelectrophoresis.
7. Immunoblot and PCR.

Clinical experiences:

I am interested in clinical immunology since I have been attached to the Immunology Department at Medical Research Institute. I worked in different areas of this concern, but the most important chance I have got was my work for more than 5 years (May 1988-Sep. 1993) in the Department of Allergy and Immunology at the Regional Laboratory and Blood Bank of the Eastern Province, Dammam, Saudi Arabia. This lab is one of the most advanced immunology laboratories in Saudi Arabia. We were receiving about 10,000-14,000 samples per years for different immunological parameters. I have got a very good experience in different immunological techniques including :

- * Measurement of immunoglobulins and complement components by nephelometry and immune-diffusion.
- * Detection of various auto-antibodies by immunofluorescence, ELISA, hemagglutination... etc. (e.g. antinuclear, anti-thyroid, anti-smooth muscle, anti-mitochondrial, anti-neutrophil cytoplasmic (ANCA), anti-sperm, anti-platelet, anti skeletal and anti cardiac muscles antibodies).
- * Measurement of acute phase proteins (e.g. CRP, haptoglobin).
- * count of lymphocytes and leukocytes and their subsets by immuno-flourescence and flow cytometry (FACScan).
- * Electrophoresis and immune-electrophoresis.
- * Measurement of tumor markers.
- * Measurement of different cytokines.
- * Measurement of lymphocytic response to different mitogens and antigens by blast transformation Technique.
- * Immunohistopathology for different tissues, including kidney, skin, lymph nodes, and tumour tissues.
- * HLA typing (for ABC and DR, DP, DQ antigens).

In addition, I am responsible for an allergy clinic in which the following investigations were done:

1. Screening for the allergy status by prick skin test and measurement of total and specific IgE.
2. Immunotherapy for selected cases.
3. Patch testing with different contactants for diagnosis of cases with contact dermatitis.