



**Advisor to the Minister of Health and Population for Scientific Research and International Cooperation,**

Ministry of Health and Population (MOHP), Egypt **(1996-2002)**

**Executive Director of the Integrated National Women Health Project (Training), Egypt**

Funded from the Social Fund for Development, Egypt **(1997-2002)**

**Director**

Molecular Epidemiology Unit, Department of Community, Environmental and Occupational Medicine, Faculty of Medicine, Ain Shams University, Cairo, Egypt **(1995- 2002)**

**Adjunct Associate Professor, Department** of Preventive Medicine and Community Health

University of Texas Medical Branch (UTMB), Galveston, Texas 77550, U.S.A. **(since 1989 – 2014)**

**Education**

**November 1984:** **M.D.** Community Medicine, Faculty of Medicine, Ain Shams University, Cairo, Egypt, Thesis title: “Cytogenetic Effect of Occupational Exposure to Lead”.

**October 1981:** **M. Sc.** Community Medicine, Faculty of Medicine, Ain Shams University, Cairo, Egypt, Thesis title: “Efficacy of Praziquantel against Schistosomiasis Infection”

**December 1977:** **M.B.B.Ch** Medicine and Surgery, Faculty of Medicine, Ain Shams University, Cairo, Egypt

**Academic Career**

**Professor** **since January 1995**

Department of Community, Environmental and Occupational Medicine  
Faculty of Medicine, Ain Shams University, Cairo, Egypt

**Assistant Professor**

Department of Community, Environmental and Occupational Medicine  
Faculty of Medicine, Ain Shams University, Cairo, Egypt

**Lecturer**

Department of Community, Environmental and Occupational Medicine  
Faculty of Medicine, Ain Shams University, Cairo, Egypt

**Post Doctoral Fellow (Fogarty International Center), NIH, USA**

Department of Preventive Medicine & Community Health,  
University of Texas Medical Branch Galveston, Texas, USA

**Post Doctoral Fellow (CEES Award)**

Department of Experimental Pathology  
Atomic Energy Center, Fontenay aux Roses, France

**Assistant Lecturer**

Department of Community, Environmental and Occupational Medicine  
Faculty of Medicine, Ain Shams University, Cairo, Egypt

**Demonstrator**

Department of Community, Environmental and Occupational Medicine  
Faculty of Medicine, Ain Shams University, Cairo, Egypt

**Professional Awards and Prizes**

### **International Awards and Fellowships:**

She was listed among the top 2% of world scientists in the American Stanford University rankings in 2022 and 2023

2009	Member/Chief (2014) of the Jury of the UNESCO-Equatorial Guinea International Prize for Research in the Life Sciences.
2008	Marie Curie Fellowship, EC.
2006	Nominated and elected as Collegium Ramazini, Fellow, Italy
2001	First recipient of the Environmental Mutagen Society International Fellow award, USA
2001	World Health Organization Award “Shousha Foundation Prize”
2000	Healthy Egyptians 2010 Award from the Department of Health and Human Resources, USA
1987	Southwest Environmental Mutagen Society Annual Meeting Award for efficient study and excellence in presentation, USA

### **National Awards:**

2019	National Recognition Award in Medical Science, Academy of Scientific Research and Technology
2017	Appreciation Award from Ain Shams University
2013	Ain Shams University Award for excellence in research
2013	Egyptian Medical Syndicate Awards, Ideal Educator Award, Egypt
1992	National Award of the Academy of Scientific Research and Technology, for excellence in research in medical science, Egypt
1989	Ain Shams University Award for excellence in research, Egypt
1990	12th Egyptian Medical Syndicate Day Award, Egypt
1997 & 1998	Egyptian Medical Syndicate Awards, Egypt
1997 & 1998	Dar El Tahreer Awards, Egypt
1999 & 2000	

### **Establishment of Units and Centers**

Supervised the establishment of the following:

- The Genetic Engineering and Biotechnology Center, Ain Shams University (Member of the Board since 1996 and Director of the center 2002-2006))
- Centers at Naser Institute, Ministry of Health and Population (1997-2002)
  - Molecular Genetics Laboratory
  - Women Health Center
  - Telemedicine Center
  - National Medicine Library
  - Gamma Knife Unit
  - Training center

- The National Network of Cancer Centers (Naser Institute, El Salam, Menia, Sohag, Aswan, Damanhour, Dommiatta, and Tanta), Ministry of Health and Population (1997-2002)
- The National Cancer Registry, Ministry of Health and Population (1997-2002)
- The National Network of Training Centers (National Training Center, Abassya and 27 governorates), Ministry of Health and Population (1997-2002)
- Molecular Epidemiology Unit, in the Department of Community, Environmental and Occupational Medicine, Faculty of Medicine, Ain Shams University for Environmental Health Research (1995)
- Laboratory of Cytogenetics, Center for Fetal Care, the Department of Gynecology and Obstetrics, for early detection of fetal congenital anomalies (1988)
- The National Laboratory of Pesticide Mutagenicity Testing, Ministry of Agriculture, Egypt (1985)

**Teaching Experience:**

As professor of Public health, and through the entire career, teaching the public health curriculum to the following:

**\* Teaching to Undergraduate 4<sup>th</sup> grade Medical Students, Faculty of Medicine, Ain Shams University:**

Every year, the department is responsible for teaching to 1000 -1500 undergraduate students. Supervised the revision of the contents and editing of the public health book of teaching to 4th Medical School students (undergraduates).

**\* Teaching to Postgraduate Medical Students, Faculty of Medicine, Ain Shams University:**

Share in teaching public health to postgraduate students to provide the following:

- Diploma in: Public Health - Family Medicine - Quality of Health Care - Medical Statistics.
- Master degree in: Public Health - Epidemiology - Occupational Health.
- Doctorate degree in: Public Health – Epidemiology - Occupational Health.

**\* Teaching of public health to students from different departments at Faculty of Medicine, (Pediatrics, Gynecology and Obstetrics, Geriatrics, Genetics, Tropical ... etc.) Faculty of Nursing, High Institute of Environmental Studies, School of Nursing, Ain Shams University**

**\*Teaching Public Health through Cooperation with Finland:**

Shared in teaching Public Health during the visits to University of Eastern Finland, Kuopio, Finland and during the international courses organized through the joint cooperative projects (2006 - 2011)

**Teaching the following courses:**

- General epidemiology and Medical statistics.
- Epidemiology of communicable diseases

- Epidemiology of non-communicable diseases (including cancer, diabetes, obesity, cardiovascular diseases, genetic diseases...etc).
- Environmental Health (including Environmental mutagenicity and carcinogenicity)
- Occupational Health.
- The interdisciplinary field of Public Health, which addresses the distribution and determinants of health and disease in the population.
- Development of public health policies and appropriate and effective intervention programs to prevent and control diseases.
- Health Education principals for prevention of different diseases.
- Family Medicine principals
- Women and children health
- Health care system, Health Services Administration, and level of health care.
- Health care financing and health sector reform
- Assessment of the local needs and international trends in the different public health issues.
- Research methodology and ethics of medical research
- Scientific Proposal Writing and proposal funding procedures

#### **Supervision of Master and Doctorate Thesis**

##### **\* Postgraduate Medical Students:**

Share in supervision of thesis of postgraduate students for partial fulfillment of:

- Master degree in: Public Health - Epidemiology – Family Medicine- Occupational Health.
- Doctorate degree in: Public Health – Epidemiology - Occupational Health.

\* Share in supervision of thesis of postgraduate students for partial fulfillment of:

Master and Doctorate degrees for students from different departments at Faculty of Medicine, (Pediatrics, Gynecology and Obstetrics, Geriatrics, Genetics, Tropical ... etc.) Faculty of Nursing, Faculty of Science, Faculty of Agriculture, High Institute of Environmental Studies and National Research Center

#### **Evaluation of thesis of postgraduate students from Ain Shams University or other universities**

Share in evaluation of thesis of postgraduate students for partial fulfillment of:

Master and Doctorate degrees for students from **same department or different departments at Faculty of Medicine, (Pediatrics, Gynecology and Obstetrics, Geriatrics, Genetics, Tropical ... etc.) Faculty of Nursing, Faculty of Science, Faculty of Agriculture, High Institute of Environmental Studies and National Research Center**

##### **Coordinator of Several Scientific and Research Projects:**

- Member of the National Steering Committee for Persistent Organic Pollutants - Ministry of Environment (2017)
- Environment and Health Impact of Climate Change (Present situation) Academy of Scientific Research and Technology (2016)
- Health Impact of Black Cloud in Egypt, Academy of Scientific Research and Technology (2005)

- Training Course on Ethics and Principles of Research in Primary Health Care: Methodology and Ethics: Community Based Studies”, Ministry of Health, Kuwait, (April 2013)
- Member of the Council Family Medicine Specialty Board, Ministry of High Education and Ministry of Health, Egypt. (since 2011)
- Health Sector Reform Program as Director of the Technical Support Office, Ministry of Health, Egypt. (1998-2002)
- National Program for Continuing Medical Education and Training, Egypt (1998-2002)
- National Program for Cancer Prevention and Control, Egypt (1997-2002)

**Principal Investigator of the following projects:**

1. **Capacity Building of Health Care Providers in Egypt to Counsel Pregnant Women and their Families Regarding Smoking Cessation and Second-Hand Smoking Avoidance - Partnerships for Enhanced Engagement in Research (PEER) Science, USAID, (2017-Present)**
2. **Capacity building of Health educators as part of the National Campaign against Hepatitis C in 2 governorates in Egypt (Fayoum and Menofia) as the President of the Specialized Federation of Health System Development NGOs (2018).**
3. **Assessment of health status of Fishermen living around Borolos Lake, Kafr El Sheikh, funded from Academy of Scientific Research and Technology, Egypt (2017-2018)**
4. **Study of Health and Population indicators in 6 governorates in Egypt funded from National Population Council, Egypt, (2017).**
5. **Coordination between NGOs and those interested in preventing HCV infection and in cooperation with the Ministry of Health and WHO to implement the national strategy as the president of the Specialized Federation of Health System Development NGOs (2017).**
6. **A study on the laws governing nutrition in countries of the Middle East and North Africa and their role in the prevention of non-communicable diseases, including obesity and diabetes in cooperation with international Law Organization (2012).**
7. **Role of Civil Society Organization in achieving Universal Health Coverage, funded from World Health Organization to the Specialized Federation of the Health System Improvement NGOs, (2015)**
8. **Health and Administrative Information System improvement in Primary Health Care in Reproductive Health, funded by National Population Council, 2015**
9. **Gender Assessment for National HIV Response in Egypt, funded from UNAIDS (2014).**
10. **Health Policy Dialogue “What Can Health Sector Do to Improve Health Systems During the Transition Period??” funded by World Bank and Under the Auspices of H.E. Prof. Foad El Nawawy, Minister of Health and Population and Prof. Alaa Faiz, President of Ain Shams University:**
  - -1st Ain Shams University Workshop “Egypt's health service provider (Governmental, Non-Governmental and Private Sector)”, February 27, **2012**
  - -2nd Ain Shams University Workshop “Role of Civil Society and Private Sector in Provision of Health Services” April 8, **2012**
  - -3rd Ain Shams University Workshop “Quality of health care provision And Pay for Performance”, May 17, **2012**

11- Egyptian coordinator in the project: **EU and North African Migrants: Health and Health Systems (EUNAM)**. FP7 Project entitled "**Assessment of immigrants' health, disease patterns and impact on health systems**" Type of funding scheme: Coordination and support actions (Coordinating), 2010 -2015. Cooperation between Germany, Sweden, Italy, Algeria and Egypt

12- Project entitled "**Improving the Quality of Higher Education in Public Health Sciences**" **2011-2015 (HEPHS I and II)**, Ain Shams University, Faculty of Medicine, Cairo, Egypt and University of Eastern Finland, Kuopio, Finland, In cooperation with: North Karelia University of Applied Sciences, Joensuu, Finland, University of Eastern Africa, Baraton, Kenya, Catholic University of Health and Allied Sciences, Mwanza, Tanzania

13- Participated as a public health expert in a study on **the nutritional status of children in Egypt (Landscape Analysis)** in collaboration with UNICEF in 2011

14- **Marie Curie Fellowship EC, FP7 projects, 2008-2009**, The 'Marie Curie Actions' is one of the European Community Framework Programmes for Research and Technological Development to be acquainted with the experience gained in **how to prevent type 2 Diabetes using the changes in life style and also through genetic prediction**, to plan for a long intervention program to be implemented in Egypt, to coordinate between the collaborating institutions from Finland and Egypt, to prepare the curriculum of training the staff on different methodology from different specialties and to prepare Health Education material for Diabetic patients to change their life style **2008-2009**.

15- Public Health Consultant, to International Organization of Law, **needs assessment Report, Strengthening the Legal Environment to Reduce Disability and Early Death through Non-Communicable Diseases In the Middle East and North Africa Region, 2012**

16- Member of the evaluation team (USAID), National Public Health Consultant, to the **Avian and Pandemic Influenza Performance Evaluation**, October 24-November 30, **2012**

17- National Consultant, **The Egyptian Landscape Analysis on Countries Readiness to Accelerate Actions In Nutrition, UNICEF, June 2011**

18- "**Epidemiological and Molecular Study for Screening and Early Detection of Genetic Diseases in Egyptian Children**", Egyptian Academy of Scientific Research and Technology. (**since 2004**)

19- "**Chromosomal Damage in Urothelial Cells of Schistosomiasis Patients and Predisposition to Develop Bladder Cancer**". A joint project between Ain Shams University, Ministry of Health and USAID. (Young Scientist Program) (**1990-1992**).

20- "**Evaluation of Cancer Risk in Schistosomiasis by Different Genetic Approaches**". Research Grant Agreement: 06-03-58. A joint project between Ain Shams University, Ministry of Health and USAID. (**1993-1995**)

21- **Evaluation of Cancer Risk in Schistosomiasis by different Genetic Approaches**" Egyptian Academy of Science, (**1997-2002**)

22- **Early Detection of Breast Cancer in Egypt** in Cooperation with Italian Hospital, 1999

23- **Assessment of Trachoma Prevalence in Monofia Governorate** 1999

24- **Schistosomiasis Projects: Assessment of Efficacy of Praziquantel against Schistosoma, in Namoul village, Qalubia, funded from NIH, USA** (1981).

25- **Assessment of Rehydran against Diarrhea Project**, 1982 in Tema, Giza.

#### **Hepatitis C Project (HCP) in Egypt (1996-2002)**

Ministry of Health and Population (MOHP) and USAID supported HCV research activity in Egypt. The HCP is a five-year research activity. Research was conducted by the MOHP in

cooperation with the University of Maryland School of Medicine, John Hopkins University, National Institute of Health (NIH), USA and other institutions Egypt (CFAR, Ain Shams, Cairo, Assuit, and Menoufia Universities, and the American University in Cairo,). The specific aims of the project required performance of investigations to determine incidence of mother-to-infant transmission, prevalence and incidence of HCV infection and disease in rural Egyptian communities; define the role of HCV in acute viral hepatitis; define the relationship of HCV to chronic liver diseases; assist in strengthening of existing viral surveillance systems and surveys and development of its human resources; and develop estimates of current and projected costs of health care services in treating HCV infection in Egypt.

**Liver Cancer:**

**Case-Control Study of Genetic Risks for Liver Cancer Among Persons Exposed to Environmental Toxicants in Egypt funded by U.S./Egypt Science and Technology Board**

It is a Ministry of Health and Population (MOHP) and USAID supported research activity in Egypt. Project research activities were conducted in cooperation with the University of Maryland School of Medicine. The goal of this research project was to determine the effects of specific genetic factors and environmental exposures on the risk of hepatocellular carcinoma (HCC).

**Feasibility Study of Biomarkers for Hepatocellular Carcinoma in Egypt funded by: U.S./Egypt Science and Technology Board.**

The project aims at determining the relationship of specific biomarkers of environmental exposures to the development of Hepatocellular carcinoma (HCC). This study focuses on determining environmental exposure that may be important for the development of HCC. Techniques have recently been developed that can determine whether hepatic cancers tend to occur in patients with specific acquired genetic mutations. The distribution of these mutations among patients in Egypt with hepatocellular carcinoma is not fully known and documented.

**Professional Membership and Activities**

**Member of the following committee:**

**International**

- Member of the International Health Laws (WHO) roster of experts (2017).
- Member of the Health Literacy Working Group - Global Coordination Mechanism for Prevention and Control of Non-Communicable Diseases – World Health Organization - Geneva, Switzerland (2016-2018).
- Jury Member/Chair of the UNESCO - International Prize for Research in Life Sciences (Since 2009)
- Marie Curie Fellow, EC, (since 2008)
- Collegium Ramazini, Italy (since 2006)
- Chairperson (2006) and Member of the Reproductive Advisory Panel (RAP) for Reproductive Health Research, World Health Organization, Geneva (2002- 2008)
- Harmonization Steering Committee, International Programme on Chemical Safety (IPCS), World Health Organization, Geneva, Switzerland (since 2006)
- Focal Point Biotechnology Network, EMRO, World Health Organization (since 2006)

- Council on Health Research for Development, (COHRED), Geneva, Switzerland  
(1999- 2001)
- Chairperson of the Forum I of Donor Sub-Group on Health, (WB, EU and USAID)  
(1999-2002)

### **National**

- Council for Environment Research, Academy of Scientific Research and Technology,  
(since 2000)
- General Coordinator of Health Improvement Programs (National and International), Ministry  
of Health and Population,  
(2014 – 2018)
- Steering Committee for Development of National Health Policy, Chaired by the Minister of  
Health and Population,  
(2014 – 2018)
- Member of the National Committee of Toxicology, National Academy of Scientific  
Research and Technology, Cairo, Egypt  
(2000- Present)
- National Council for Environment Research, National Academy of Scientific Research and  
Technology, Cairo, Egypt  
(2000 – 2020)
- The Supreme Council of Health, Chaired by the Minister of Health and Population, (2014 –  
2018)
- The Steering Committee for Development of National Health Policy, Chaired by the Minister  
of Health and Population,  
(2014 – 2018)
- High Committee of Universal Health Insurance Law, Chaired by the Minister of Health and  
Population,  
(2013 – 2018)
- Task Force for Governance in Health, Ministry of Health and Population, (2013 – 2015)
- The Council Family Medicine Specialty Board, Ministry of High Education (since 2011)
- National Committee for Prevention and Control of Hepatitis, MOHP (2012- present)
- National Committee for Prevention and Control of Cancer, MOHP (2013- present)
- Biosafety Committee, Ministry of Agriculture  
(since 2003)
- National High Committee of Sustainable Development  
(2006 - 2012)
- Science, Health and Environment Committee, Supreme Council  
of Television and Radio Council, Ministry of Information  
(2006 – 2010)
- National Committee of Genetics, Egyptian Academy of Scientific Research and Technology  
(2005)
- National Committee of Toxicology,
- Egyptian Academy of Scientific Research and Technology,  
(since 2005)
- Board of the General Federation of Non-Governmental Organizations,  
(since 2004)
- - Chairman of Research and Studies Committee,
- - Member of several committees for Planning, Family & Population, and Illiteracy  
eradication)
- Board of the High Institute of Environment Studies and Research, Ain Shams University  
(2003)
- Environment Committee, National Women Council  
(Since 2003)
- National Council of Environmental Research, National Academy of Scientific Research and  
Technology, Cairo, Egypt  
(since1999)

- National Organization for Drug Control and Research (NODCAR)
- Ministry of Health and Population, Cairo, Egypt (1999-2004)
- Teaching Hospital Organization, MOHP, Egypt (2001-2002)
- National Committee of Human Genetics, MOHP Egypt (2001-2002)
- High Committee of the National Family Health Fund, Egypt (1999-2002)
- Ethical Committee for Newly Induced Treatment Technology, MOHP, Egypt (1999-2002)
- Health Policy Reform Steering Committee, (MOHP) Egypt (1997-1998)
- National Committee for Control of Renal Diseases, Egypt (1997-2002)
- National Committee for Health Information, Egypt (1997-2002)

### **Membership of Societies**

#### **International**

- **President Elect/ President** of the Pan African Environmental Mutagen Society (since 2008/2017))
- **Secretary General** International Association of Environmental Mutagen Societies (IAEMS) (2005-2008) and reelected (2022-2026)
- **President** of the Pan African Environmental Mutagen Society (2003-2005)
- **Secretary General** of the Pan African Environmental Mutagen Society (1992-2003)
- Member International Association of Environmental Mutagen Societies, (Since 1987)
- Member US Environmental Mutagen Society, USA (1987)
- Member Southwest Environmental Mutagen Society, USA (1987)
- Member Alexander Hollaender Fund Committee for International Programs USEMS, USA (1988)

#### **National**

- Member of the Board of the General Federation of Non-Governmental Organizations, Egypt (2002-2013)
- President of Specialized Federation of Health System Improvement NGOs, Egypt (2014- Present)
- President of the Specialized Federation of Research NGOs, Academy of Scientific Research and Technology, Egypt (2015 – Present)
- Secretary General/President of the Egyptian Environmental Mutagen Society (2002 - Present)
- One of the Founders and Member Egyptian Environmental Mutagen Society (Since 1983)
- Egyptian Society of Nurse Friends (2004)
- Egyptian Society of Blood Banks (2000)
- Egyptian Society of Genetics, (1985)
- Egyptian Society of Community Medicine (1982)
- Egyptian Society of Occupational Medicine (1982)

### **Professional Fellowships**

2008	Marie Curie Fellowship, EC, FP7
2006	North to South cooperation with University of Kuopio, Finland
1998	Award from Japan International Cooperation Agency to visit the National Institute of Public Health, International Medical Center of Japan, School of International Health and University of Tokyo.
1996	Award from the International Union for Cancer Research, Geneva to visit the Heidelberg Cancer Center, Germany
1995	Award from the Foundation for Promotion of Cancer Research to visit The National Cancer Center Research Institute, Tokyo, Japan.
1988, 1989	Frequent Fellowship Awards, as visiting Scientist from the University of Texas Medical Branch, Galveston, Texas, USA
1990, 1991, 1993	
1989	World Health Organization Fellowship Award to visit the Medical Education
	Section, Medical School, Bahrain University, and Ministry of Health, Bahrain
1987	Fogarty International Fellowship Award, to spend one year as a Post Doctoral fellow in the University of Texas Medical Branch, Galveston, Texas, USA
1986	CEES Award, to spend one year as a Post Doctoral fellow in the Center of Atomic Energy, France

### **Professional Training**

***Alexander Hollander (USA) Training Course in Environmental Mutagenesis***

***Cairo, Egypt***

(1984)

### ***Japan***

**National Institute of Public Health,**

**International Medical Center of Japan, School of International Health,**

**The University of Tokyo (Japan International Cooperation Agency).**

(1998)

Training Course in Health Care System

**The National Cancer Center Research Institute, Tokyo, Japan**

(1-15 September 1995)

The visit was supported by the Foundation for Promotion of Cancer Research.

### ***Germany***

**The Heidelberg Cancer Center, Germany**

(1-15 September 1996)

Supported by the International Union for Cancer Research, Geneva

The use of molecular genetic techniques (Genotyping) in detection of susceptibility to cancer.

### ***Sweden***

**The Karolinska Institute, Center for Nutrition and Toxicology,**

**NOVUM, S-141 57 Huddinge, Sweden,**

(1995)

Training on DNA Extraction techniques and Molecular Biology

### ***Finland***

- As **Marie Curie Fellow, EC, FP7** 2008 spent one year at University of Kuopio, Department of Clinical Nutrition to be acquainted with the prevention program of Type 2 Diabetes (August 2008- July 2009)
  - Food and Nutrition Toxicology Lecture Series 5. Food Safety: The Farm to Fork Concept, Department of Clinical Nutrition and ETTK, University of Kuopio (11-13 August, 2008)
  - Grant Writing Course, Department of Clinical Nutrition and ETTK, University of Kuopio (14-15 August, 2008)
  - Course Genetic and Molecular Aspects of Alzheimers Disease, Department of Neurology, University of Kuopio (September 2008)
  - Regulatory Toxicology Course organized by Professor Kirsi Vähäkangas, Department of Pharmacology and Toxicology (August 2008)
  - Principles of Nutrition, Department of Public Health (September 2008)
  - Introduction to Public Health, Department of Public Health (October 2008)
  - Health Policy course, Department of Public Health (October 2008)
  - Applications of Public Health, Department of Public Health (October 2008)
  - Nutrition in the Life Cycle, Department of Public Health (November 2008)
  - Molecular Medicine I (Cancer), Institute of Biomedicine (December 2008)
  - Molecular Medicine II (Ageing), Institute of Biomedicine (January 2009)
  - Molecular Medicine III (Diabetes), Institute of Biomedicine (February and March 2009)
  - Nutritional Epidemiology Course, Department of Public Health (April 2009)
  - Research Methodology Course, Department of Public Health (April 2009)

-Visit to Finland as North to South Program (May/June 2010) to attend the following course:**Update in diet and health – a critical evaluation of the role of diet in chronic diseases**, Department of Clinical Nutrition, Kuopio Campus, University of Eastern Finland, **Organizer:** Prof. Hannu Mykkänen, June 7-10, 2010.

- Visit to Finland as North to South Program (August 2006) to attend the following course: Hani El Nezami Course (Kuopio and Tempere)

- Attended the Second International Course on Molecular Biology in Toxicology, Methods and Applications, NIVA course, Tuusula, Finland, (30<sup>th</sup> August - 3<sup>rd</sup> September 1993)
- Visited the Institute of Occupational Health – Helsinki, Finland (1993)

#### **USA**

##### **1- National Institute Environmental Health Sciences (NIEHS),**

National Institute of Health (NIH), North Carolina, USA, (1994)  
The use of molecular genetic techniques (Genotyping) in detection of susceptibility to cancer.

##### **2- The U.S. Environmental Protection Agency,**

Genetic Toxicology Division, North Carolina, USA, (July 1993)  
Molecular genetics.

### **3- University of Texas, Medical Branch, (UTMB) Galveston, Texas , U.S.A.**

Several scientific missions

(1987 - 1993)

- Department of Preventive Medicine and Community Health, Division of Environmental Toxicology, as Fogarty International Post-Doctoral Fellow

(1987)

- Human blood culture (G-Banding, SCE, and Micronucleus Test)
- Animal Cytogenetic Studies (Chromosomal Aberrations, Sister Chromatid Exchange, Micronucleus and Germinal cell)

- Pediatric Department, Cytogenetic Laboratory,

(1987)

- Human blood culture, Amniotic fluid culture, G-Banding and Karyotyping

- Department of Preventive Medicine and Community Health, Division of Environmental Toxicology

July 1st - August 31st 1989;

July 20th - September 20th 1990;

June 1st - September 1st 1991

As a visiting scientist, cooperated with Prof. William Au in his projects on Environmental Mutagenesis, such as "Involvement of the Retinoblastoma Gene in Mouse Mammary Carcinogenesis".

- Department of Preventive Medicine and Community Health, Division of Environmental Toxicology, July 1993

As a principal investigator of the Schistosomiasis Research Project in order to be acquainted with the recent advancement in the techniques of molecular cytogenetics

### **4- Institute of Medical Genetics, Cytogenetic Laboratory,**

Baylor College of Medicine Houston, Texas, U.S.A.,

(1987)

Human blood culture, Amniotic fluid culture, Chronic villus sample, G-Banding and Karyotyping

### ***France***

Department of Experimental Pathology and Atomic Energy Center,

Fontenay aux Roses, France, as Cees Post-Doctoral Fellow

(1986)

1. Human blood culture (Sister Chromatid Exchange, R-banding)
2. Effect of Laser on Human Chromosomes in vitro

### ***Bahrain***

Medical Education Department- Gulf University and Ministry of Health

Funded from WHO to be acquitted with Primary Health Care services

(1989)

### **World Health Organization Activities**

**Consultation with EMRO Role of Civil Society organizations to achieve Sustainable Development Goals, 2015**

**Consultation with EMRO Role of Civil Society organization to prevent NCDs, 2015**

**Consultation to revise the Regional Strategy of the NCD Prevention and Control, Sharm El Sheikh, Egypt, 2010**

### **Cooperation with the International Agency for Research on Cancer (IARC)**

- Invited to visit IARC during February 2013 to discuss development of cooperation in Cancer registry and Biobank in cooperation with Egyptian Academy of Scientific Research and Technology.
- Invited to visit IARC during June 2012 to discuss development of cooperation in Cancer registry and Biobank and the organization of the next PAEMS conference in Cairo.
- Invited to visit IARC during 6-8 July 2009 and 2010 to discuss development of cooperation in Cancer registry and Molecular Epidemiology and the organization of the next PAEMS conference in Cairo.
- Invited to participate in the Consultative Committee of the IARC Monographs, Lyon, France December 2005, to revise the Preamble of the IARC Monograph of the International Agency for Research on Cancer.
- Invited to participate in the Consultative Committee of the IARC Monographs, Lyon, France February 2003, to put the priorities for the future IARC Monograph of the International Agency for Research on Cancer.
- Invited to participate in the IARC Monographs Working Group on Schistosomiasis, Liver Flukes and Helicobacter Pylori, Lyon, France 7-13 June 1994, as a step in publishing volume 61 of the IARC Monograph in the International Agency for Research on Cancer.
- Invited to join the teaching faculty of the International Course on the Detection of Health Hazards in Populations Exposed to Chemical Mutagens and Carcinogens. Bangkok, Thailand, 15-26 November 1993. Organized by the International Agency for Research on Cancer, Lyon, France. The titles of the lectures were: “Markers of biological effects: Carcinogens as clastogens” and “Cytogenetic Surveillance of populations at risk.”
- Invited to join the Teaching Faculty of the International Course on the Detection of Health Hazards in Populations Exposed to Chemical Mutagens and Carcinogens. Harare, Zimbabwe, 9-20 September 1991. The titles of the lectures were: “Mutagenicity in Body Fluids” and “Cytogenetic Surveillance: Chromosomal Aberrations, Micronuclei and SCEs.” There was also a practical demonstration on Chromosomal aberrations, Micronuclei and SCEs.
- Invited to visit the International Agency for Research on Cancer (IARC), Lyon, France, 31 May- 3 June, 1992, 14-17 April, 1993 and August, 1993 to discuss future collaboration with Dr. H. Bartsh, Dr. David Shuker, Dr. C.P. Wild and Dr. Harri Vainio.
- Invited to visit the International Agency for Research on Cancer (IARC), Lyon, France, 7-9 October 1991. The activities during the visit included:
  - Giving a seminar entitled: “Cytogenetic Studies on High Risk Populations in Egypt”.
  - Visiting the different divisions and laboratories of IARC and discussing with several scientists the possibilities for future collaborative scientific and financial activities.

### **Cooperation with the International Program on Chemical Safety (IPCS), WHO**

- Member of the Harmonization Steering Committee, International Programme on Chemical Safety (IPCS), World Health Organization, Geneva, Switzerland, (since 2006).

- Invited by the International Program for Chemical Safety, IPCS to participate in the “IPCS/OECD Workshop on the Harmonization of Risk Assessment for Reproductive and Developmental Toxicology”, BIBRA International, United Kingdom, (17-22 October 1994).
- Invited as a consultant on reproductive toxicology to the International Program on Chemical Safety (IPCS), Copenhagen, Denmark, (5 October 1991). In an attempt to develop scientifically sound methodology to assess the effects of chemicals on reproduction and fetal development, a meeting was held to start updating The Environmental Health Criteria 30 “Principals for Evaluating Health Risks to Progeny Associated with Exposure to Chemicals during Pregnancy.”

### **Cooperation with the Special Program of Research, Development and Research Training in Human Reproduction, WHO**

- Member of the Regional Advisory Panel (RAP) for Reproductive Health Research, World Health Organization, Geneva since 2002. Participated actively in the annual meetings in
  - Tunisia November, 2003
  - Nigeria April, 2004.
  - Chair the meeting in Alexandria, November 2006
  - Chair the meeting in Senegal, November 2007
  - Chair the meeting in Dubi, November 2008
  - Invited to the RAP Chair meeting in Geneva, (2007 and 2008)

She was invited for Field Visits to Syria June 2004 and August Sudan 2004 to follow up and evaluate research and training centers in reproductive health area.

- Invited to the Regional Expert Committee meeting in Copenhagen, Denmark, 26-28 August 2002 to discuss the integration of the Reproductive Health in the Health Sector Approach.
- Invited by a Special Program of Research, Development and Research Training in Human Reproduction to the International Workshop on “Impact of the Environment on Reproductive Health”, 30 September- 4 October 1991. The workshop activities included:
  1. Co-chairman of the Plenary Session I, which dealt with the topic “Impact of the Environment on Reproductive Process”.
  2. A member of the working group to prepare the position paper for the “Earth Summit” meeting in Brazil, June 1992.
  3. Presented a study entitled: “Sperm Morphology Test in Mice Exposed to Lead Nitrate”.

### **Attended the following WHO meetings:**

#### **1- World Health Assembly Meetings (Member of the Official delegation)**

- 54th Session of the World Health Assembly, Geneva: May 2001
- 53<sup>rd</sup> Session of the World Health Assembly, Geneva: May 2000
- 52<sup>nd</sup> Session of the World Health Assembly, Geneva: May 1999
- 51<sup>st</sup> Session of the World Health Assembly, Geneva: May 1998
- 50<sup>th</sup> Session of the World Health Assembly, Geneva: May 1997

## **2- WHO Executive Board Meetings (Member of the Official delegation)**

- Executive Board Meeting, Geneva: January 2002.
- Executive Board Meeting, Geneva: January 1998.
- Executive Board Meeting, Geneva: January 1997.

## **3- WHO Eastern Mediterranean Regional Meetings (EMRO), (Member of the Official delegation)**

- 47<sup>th</sup> Session for the EMRO Committee, Riyadh, Saudi Arabia: October 2001, during which received the WHO , Shousha Prize.
- 46<sup>th</sup> Session for the EMRO Committee, Cairo - Egypt: September 1999.
- 45<sup>th</sup> Session for the EMRO Committee, Beirut - Lebanon: October 1998. Selected as the chairman of the technical papers session. Consequently, selected a member of the evaluation committee of candidates for Dr. A. T. Shousha foundation prize
- 44<sup>th</sup> Session for the EMRO Committee, Teheran - Iran: October 1997. Several vital issues were examined such as the application of appropriate health technologies, providing accurate health information and statistics, and promoting mental health.
- 43<sup>rd</sup> Session for the EMRO Committee, Lahore - Pakistan, October 1996.

## **4- WHO Meetings Dealing with Women and Reproductive Health**

- Inter-country Workshop to Strengthen National Capacity Towards the Eventual Elimination of Practices Harmful to Women in the Eastern Mediterranean Region, Sharm El-Sheikh, Egypt, 6-9 March 2000.
- Workshop on Adolescents' needs and perspectives in Reproductive Health: How to Promote Healthy Lifestyles Among Adolescents in the Eastern Mediterranean Region, Beirut, Lebanon, 29 November-2 December 1999.
- Inter-Country Consultation on the Role of Women in Health and Development, Amman, Jordan, 1-3 February 1999.
- Inter-country Meeting on Women's and Gender Perspectives in Reproductive Health in the Eastern Mediterranean Region, Casablanca, Morocco, 10-13 November 1997.

## **5- WHO Meetings Discussing Health and Environment**

- World Health Organization Conference on Health and Environment, Syria: December 1997.

## **6- WHO Meetings Dealing with Other Subjects**

- Member of Evaluation Committee for WHO Research, Islamabad, Pakistan, 2004
- WHO/EMRO Consultation on Health System Research, Cairo, Egypt, 2004
- WHO/EMRO Consultation on Genomics and Public Health, Maskat, Oman, 2003.

- Invited to the WHO Consultation on Early Detection and Screening on Breast Cancer, Cairo, Egypt, 21-24 October, 2002.
- Invited to the WHO “Prevention and Management of Genetic Disorders and Birth Defects” meeting in Vienna in May 2001 to present the Egyptian experience in Genetic diseases
- A Joint WHO/WAOPD meeting on Services for the Prevention and Management of Genetic Disorders and Birth Defects in Developing Countries, Cairo, Egypt, 6-8 December 1999.

**7- Invited by World Health Organization to participate in the Human Genetics Programme Initiative on Integrating Genetics into the Primary Health Care (2003)**

**Organization of International Conferences and Meetings**

Organized and participated in organization several conferences such as:

**International Conference on Environmental Mutagens in Human Populations**

- Organized and served as Member of the International Advisory Board of the ***Sixth International Conference on Environmental Mutagens in Human Populations, in cooperation with Qatar Foundation***, Doha, Qatar, March 2012.
- Organized and served as Member of the International Advisory Board of the ***Fifth International Conference on Environmental Mutagens in Human Populations***, Turkey, 2007.
- Organized and served as Member of the International Advisory Board of the ***Fourth International Conference on Environmental Mutagens in Human Populations***, Brazil, 4-8 May 2003.
- Organized and served as Member of the International Advisory Board of the ***Third International Conference on Environmental Mutagenesis in Human Populations***, Bangkok, Pataya, Thailand during the first week of December 1999.
- Member of the International Advisory Board of the ***Second International Conference on Environmental Mutagenesis in Human Populations***, Prague, Czech Republic, 19-25 August 1995.
- Secretary General of the ***First International Conference on Environmental Mutagenesis in Human Populations at Risk***, Cairo, Egypt 19-24 January 1992.
- **Technology Transfer Conference, Cairo, Egypt, 1978**

**Pan African Environmental Mutagen Society:**

- Organized, as the President Elect of the Pan African Environmental Mutagen Society, the ***Seventh Pan African Environmental Mutagen Society (PAEMS) Meeting***, Cairo, Egypt, May, 2017.
- Organized, as the Former President of the Pan African Environmental Mutagen Society, the ***Six Pan African Environmental Mutagen Society (PAEMS) Meeting***, Cape Town, South Africa, November, 2008.

- Organized, as the President of the Pan African Environmental Mutagen Society, the ***Fifth Pan African Environmental Mutagen Society (PAEMS) Meeting***, Fes, Morocco, 24-26 November, 2005.
- Organized, as the President of the Pan African Environmental Mutagen Society, ***the Fourth Pan African Environmental Mutagen Society (PAEMS) Meeting, “CHILD HEALTH AND THE ENVIRONMENTAL MUTAGENS”, “An African Agenda for Prevention Research”***, Ain Shams University, Cairo, Egypt 2-7 March 2003.
- Organized and served as Chairman of the International Advisory Committee of the ***Third Pan African Environmental Mutagen Society (PAEMS) Meeting***, Harare, Zimbabwe, March 1999.
- Secretary General of the ***Second Pan African Environmental Mutagen Society (PAEMS) Meeting***, Cape Town, South Africa, January 1996.
- Secretary General of the ***First Pan African Environmental Mutagen Society (PAEMS) Meeting - Mycotoxins as Mutagens and Carcinogens: Possibilities for Disease Prevention***, Cairo, Egypt, 23-26 January 1993.

#### **Alexander Hollaender Training Course in Genetic Toxicology**

- ***Fourth Alexander Hollaender Training Course in Genetic Toxicology*** in Egypt, 15-18 September, 1997 (Satellite meeting of the 7th ICEM

#### **Genomics and Public Health:**

- Organized the Second Conference of Africa Genome Initiative “***Genomics & African Society***” in collaboration with Human Science Research Council of South Africa (HSRC), Mena House Hotel, Giza, Egypt (26-29 March 2004)

#### **Food, Nutrition and Health:**

- Workshop ***“Nutrition and Disease Prevention”*** Thursday 12 November 2009, in cooperation with University of Kuopio, Finland., Venue: Ain Shams University
- ***Nutrition and Disease Prevention “Role of Finnish Experience in Improving the Quality of the Egyptian Bread”***, 15 March 2009, in cooperation with University of Kuopio, Finland. Venue: Regional Office, Eastern Mediterranean Region (EMRO), World Health Organization (WHO), in Cairo.
- ***Food Safety Conference, National Toxicology Committee, Egyptian Academy of Science, Cairo, 2007.***

#### **During the appointment at the Ministry of Health and Population (1996-2002):**

- ***VI Conference of African Ministers of Health (CAMH6)***, Cairo, Egypt, 18-21 October 1999
- ***Fifteenth International Medical Convention***, Cairo, Egypt, June 1998 under the Patronage of Her Excellency Suzanne Mubarak.
- ***Pan African Ministerial Conference***, Cairo, June 1998
- ***International Symposium on Heart Diseases, from Molecules to Patient Care***, Cairo, May 1998.

- **Second Meeting of Task Force of Malaria Control** to review the state of malaria disease, October 1997, Cairo, Egypt.
- Member of the Organizing Committee of **Vitamin A Deficiency Conference** 22-25 September 1997, Cairo, Egypt under the Patronage of Her Excellency Suzanne Mubarak.
- **First Workshop of the National Program for Cancer Prevention and Control** under the auspices of H.E. Prof. Dr. Ismail Sallam, Minister of Health and Population in collaboration with the International Agency for Research on Cancer, 17-19 February, 1997, Cairo, Egypt
- Organized the Environment and Health Session of the **Ain Shams 19<sup>th</sup> International Medical Congress**, February 26-29, 1996 under the auspices of H.E. Prof. Dr. Ismail Sallam, Minister of Health and Population.

### **Organization of National Conferences**

- Launching Event for the “Smoking Cessation and second-Hand Smoking Avoidance during Pregnancy Project”, November 10, 2018
- First National Conference of Specialized Federation of Scientific NGOs “Role Civil Society and Research for Development”, Under Patronage of the President of Egypt, 24 December, 2012
- Training course “*Molecular Medicine and its Applications*” *Diagnosis of Infectious Diseases*, 8-11 May, 2010, Medical Research Center, Ain Shams University
- Organizer of Workshop **Environmental and Health Impact of Food Safety**, 14 December 2007, Academy of Science and Technology, National Toxicology Committee Venue: Dar El Diafa, Ain Shams University.
- Organizer of Workshop **Environmental and Health Impact of Persistent Organic Pollutants**, 14 May 2006, Academy of Science and Technology, National Toxicology Committee.
- Secretary General of the **Fifth National Conference of the General Federation of Non-Governmental Organizations and Foundations** entitled "Enhancement the Developmental Role of NGOs", 5 December 2004, Cairo, Egypt.

### **Organization of Training Courses/Workshops:**

**Activities of the project: EU and North African Migrants: Health and Health Systems (EUNAM).** FP7 Project entitled “Assessment of immigrants’ health, disease patterns and impact on health systems” Type of funding scheme: Coordination and support actions (Coordinating), 2010.

#### **In Egypt**

- *Ethical reviews in North Africa:* Meeting at Community Department, Ain Shams University, August 21, 2011
- Meeting at Ain Shams University, Unification and standardization of tools of Research Protocol Reviewing to be used by Research Ethics Committees, August 05, 2012
- Meeting at Ain Shams University about improving of guidelines used by ethical committees on Reviewing and coming up with the final recommendations, September 10, 2012

- Meeting at Ain Shams University: Establishment and Evaluation of Ethical Committees Performance in Egypt, December 09, 2011
- Research Methodology Course, 11 to 13 December 2011
- *Obesity in North Africa*, Meeting at Community Department, Ain Shams University, November 20, 2011
- Workshop on Obesity and Overweight in Egypt and NA current situation and prevention, December 16, 2011
- Meeting on cancer in Egypt and North Africa: current and future view, May 14-15, 2012
- Training on Research Proposal and Grant Writing, September 11-13, 2012
- Visit of Dr. Paul Dourgnon, INSTITUT DE RECHERCHE ET DOCUMENTATION EN ECONOMIE DE LA SANTE ASSOCIATION (IRDES), Paris, France - Two days - Scientific meeting 15-16 September 2012

#### Activities outside Egypt

- Kick Off Meeting, Heidelberg, Germany, May 5 – 6, 2011
- Italy, Ferrara Meeting Sept.8 - 9, 2011
- Tunisia Meeting March 12- 13, 2012
- Paris Meeting September 20- 21, 2012
- Marrakech, Morocco meeting, April, 22-23, 2013

#### Topics discussed

- Health systems in Egypt and NA: Drs. Wagida Anwar and Meriem Khyatti
- Ethical reviews of research in NA countries:
- Communicable and Vector born diseases: Review of communicable diseases in NA countries:
- Non- communicable diseases (including Obesity and Cancer)
- Changes in overweight and physical in-activities in NA countries.
- Cancer registry
- Assessment of Breast Cancer risk
- Aflatoxin exposure in NA and Europe:
- Coronary heart diseases among immigrants
- HPV and cancer:
- Transmission of health habits across generations : the role of migration:
- Health status assessment in immigrants by anthropometric and blood parameter:
- Access to health system among immigrants
- Tobacco problem in NA as compared to EU

#### Presentations and Publications

- Obesity in EU and NA: P. Dourgnon and Dina Kamel (Egyptian) - *EUNAM Ferrara Meeting Sept.8 - 9, 2011*
- Cancer in EU and NA: D. Marzouk, M.Mousavi and K.Hemminki - *EUNAM Ferrara Meeting Sept.8 - 9, 2011*

- Non communicable diseases in Egypt and North Africa: Prof Diaa Marzouk (Egyptian) - *EUNAM Tunisia Meeting March 12- 13, 2012*
- Vector born diseases in NA countries: Wagida Anwar -*EUNAM Paris Meeting September 20- 21, 2012*
- Ethics in NA countries: Diaa Marzouk -*EUNAM Paris Meeting September 20- 21, 2012*

### **Egyptian –Finnish Training Course:**

- The workshop was organized at Regional Office, Eastern Mediterranean Region (EMRO), World Health Organization (WHO), Main Conference Hall, on March 15th, 2009, Cairo, Egypt. **Nutrition and Prevention of Non-Communicable Diseases “Finnish Experience in Prevention of Type 2 Diabetes”**
- **Public Health Challenges in Africa - International Scientific Workshop, Tanzania,** Sponsored by North-South-South programme, 26-30 May, 2008
- **Running of 2 web courses online**, 10 students participating from each partner university
  - Public Health Issues, Feb-Mar 2012
  - Public Health in Humanitarian Crisis, Oct-Nov 2012

**Syrian Courses:** Health Care Management in Reproductive Health, 2004

**Study Tour for Nigerian:** Health Sector Reform and Primary Health Care, 2004

### **Biotechnology Courses: (2002 - 2008)**

- Ethics of Research
- Basics in Biotechnology
- Bioinformatics
- Information System
- Diagnosis of Infectious Diseases
- DNA Sequencing
- Research Methodology

### **Participation in International Conferences and Meetings**

- **Joint Qatar Foundation Annual Research Forum and Arab Expatriate Scientists Network**, October, 2012
- **1st Qatar Medical Education Conference** on January 20 - 22, 2012 “Improving Quality of Care through Medical Education”
- **Saudi International Medical Education Conference, SIMEC 2010**, April, 2010, Jazan, Saudi Arabia
- Invited to participate in the ***Fourth Conference of Africa Genome Education Institute***, Cape Town, South Africa, (20-25 March 2006).

- Invited to participate in ***the 9th Conference of the International Association of Environmental Mutagen Society***, San Francisco, September, 2005 and gave a lecture entitled “Investing in genetic Toxicology Research in Africa”
- Invited to participate in the ***Third Conference of Africa Genome Initiative, "A time to Heal"*** in Nairobi, Kenya, (22-24 March 2005).
- Invited to participate in the ***Tenth International Conference of Toxicology, ICTX*** Tamper, Finland, 11-15 July, 2004 to Chair a session entitled “Priority Setting in toxicology” and give a lecture entitled “Possibilities and pitfalls for modern biotechnology in the development of African genetic toxicology.
- Invited by Fogarty International Center, NIH, USA to attend the ***Women in Science Meeting*** in Washington, 2003
- Invited by the German Overseas Institute University Hamburg to participate in the workshop entitled “***Interfaces of Developing Countries' National Strategies with Global Governance: Conflicts and Co-operation in the Health Sector***”, Hamburg, Germany, June 7th-8th , 2002
- ***16<sup>th</sup> International Symposium of Sapporo Cancer Seminar***, “Molecular Mechanisms for Inflammation Promoted Pathogenesis of Cancer.” Sapporo, Japan on July 2-5, 1996. Invited to participate and give a lecture entitled “Schistosomiasis and Urinary bladder cancer.”
- ***Genetic Toxicology Gordon Research Conference***, Colby Sawyer College, NH, USA, July 26-30, 1993. Invited to participate.
- ***International Symposium on Health Hazards of Butadiene and Styrene***, Espoo, Finland, 18-21 April 1993. Invited as a speaker and made a presentation on “*Cytogenetic and Biochemical Changes in Workers Exposed to Styrene.*”
- ***Sixth International Conference on Environmental Mutagens (ICEM)***, Melbourne, Australia, February 21-26, 1993, Invited as a speaker and made two presentations on “*Issues in Developing Countries: Environmental Mutagenesis Problems in Egypt*” and on “*Schistosomiasis and Praziquantel: Mutagenicity, Co-mutagenicity and Antimutagenicity*” in addition to speaking about regulations in developing countries.
- ***Urban Air: Emission, Human Exposure and Risk Identification*** Stockholm, Sweden, 4-5 June 1992. Invited as a speaker and gave a lecture summarizing the current knowledge in the area of environmental mutagenesis and cytogenetic monitoring, especially studies performed in Egypt and other African countries.
- ***World Congress on Cell and Tissue Culture***, Anaheim, California, U.S.A. (June 16-20, 1991).
- ***Data Bases of Genotoxicity and Carcinogenicity and their Usefulness for Hazard Evaluations Meeting***. Genoa, Italy, January 16-18, 1991. Invited as a speaker and delivered a lecture on “*Cytogenetic Monitoring of Human Populations at Risk in Egypt - Role of Cytogenetic Data in Cancer Risk Assessment*
- ***XX<sup>th</sup> European Environmental Mutagen Society Meeting***, York, England, 22-27, July, 1990. Presented two studies:
  - Cytogenetic study in workers occupationally exposed to mercury.
  - Cytogenetic study in nurses occupationally exposed to antineoplastic drugs.
- ***Satellite Symposium of the Fifth International Conference on Environmental mutagens - Genetic Toxicology in Developing Countries***. Guadalajara, Mexico, July 20-23, 1989, to share in a workshop about “Human Population Monitoring.”

- **Satellite Symposium of the Fifth International Conference on Environmental Mutagens - Human Population Monitoring.** Galveston, Texas, U.S.A. July 17-19, 1989. Gave a lecture on "Cytogenetic monitoring of high risk population in Egypt."
- **Fifth International Conference on Environmental Mutagens**, Cleveland, Ohio, U.S.A. July 10-15, 1989. Presented studies on:
  - The mutagenic potentiality of parquet in different living systems.
  - Cytogenetic effect of in-vitro exposure to diagnostic ultrasound on maternal and fetal lymphocyte chromosomes.
  - Cytogenetic study on women using injectable hormonal contraceptives (Medroxy-progesterone acetate = Depoprovera).
- **Second International Conference on Mechanisms of Antimutagens and Anticarcinogens**, Ohito, Japan, December 4-9 1988. Presented the study on "Effect of Dimethyl Sulfoxide on the Genotoxicity and Metabolism of Benzene in vivo."
- **Sixteenth International Congress of Genetics**, Toronto, Canada, August 20- 27, 1988. Presented the study on "Cytogenetic effects in a group of Traffic Policemen in Cairo."
- **Nineteenth Annual Meeting of the Environmental Mutagen Society**, Charleston, South Carolina, U.S.A. (March 27-31, 1988). Presented the study on "Genotoxic Interaction between Drug and Environmental Chemicals: Praziquantel and Benzene Effects." Authors: Anwar, W.A.; Au, W.W. and Legator, M.S. It was published as an abstract in Environmental and Molecular Mutagenesis, Vol. II, Supplement 11, 1988
- **James W. McLaughlin Fellowship Fund Research Colloquium**, Galveston, Texas, U.S.A. March 1988. Presented the study: "Potential Mutagenic Risk from Control of Human Schistosomiasis by Treatment with Praziquantel." Authors: Anwar, W.A.; Au, W.W. and Legator, M.S.
- **Eighth Annual Meeting of the American College of Toxicology** in Baltimore, M.D., U.S.A. December 7-9, 1987.
- **Annual Meeting of Southwest Environmental Mutagen Society**, Houston, Texas, U.S.A., November 1987. Presented the study: "Genotoxic Interaction Between Drug and Environmental Chemicals: Praziquantel and Benzene Effects." Authors: Anwar, W.A., Au, W.W. and Legator, M.S. The study received the Annual Award of the Society for excellence in work and presentation.
- **Fortieth Symposium on Fundamental Cancer Research**, Genetic Mechanisms and Cancer. University of Texas, M.D., Anderson Hospital and Tumor Institute in Houston, Texas, U.S.A. November 8-11, 1987.

**During the appointment at the Ministry of Health and Population (1996-2002):**

- Moderator in **Partnership for Health in the New Millennium: Launching Healthy People 2010 Conference**, Washington DC, USA, 24-26 January 2000.
- Participant in the **First Ministerial Euro-Mediterranean Conference on Health**, Montpellier, France, 2-3 December 1999.
- Participant in **the International Policy Conference on Children and Tobacco**, Washington, 18 -19 March, 1999.

- Participant in ***ICPD+5 Forum: Five-Year Review of the Implementation of the Program of Action from the Cairo Conference on Population and Development***, the Hague, Netherlands, 8-12 February 1999.
- ***International Conference "the Fight against Cancer in the Emerging World"***, Rome, Italy. 25-26 January, 2001.

#### **Other International Activities**

Visited many international universities, agencies, centers, faculties, and organizations:

- Invited by Prof. Fathi Saoud to visit **Qatar Foundation** and to give a seminar at **Cornell Faculty of Medicine** “Genomics and Public Health, 2004.
- **Qatar University** and giving Seminar entitled “ Genomics and Public Health”, invited by Professor Abdel Aziz El Bayomi. 2005
- **National Institute of Health Sciences**, 1-18-1 Kamiyoga, Setagaya-ku, Tokyo 158, Japan. Invited by Dr. Makoto Hayashi, Division of Genetics and Mutagenesis, to visit the institute and give a seminar on 9 July, 1996.
- **Okayama University**, Tushima, Okayama 700, Japan. Invited by Dr. Hikoya Hayatsu, *Faculty of Pharmaceutical Sciences*, to give a seminar on 8 July, 1996.
- **Jikei University**, Japan. Invited by Prof. Hidesuke Shimizu to give a seminar on 2 July, 1996.
- **National Cancer Center Research Institute**, Tsukiji 5-Chome, Chuoku, Tokyo, Japan. Invited by Dr. Minako Nagao, Chief, Carcinogenesis Division, to give a seminar at her laboratory on 1 July, 1996.
- **Scientific Group on Methodologies for Safety Evaluation of Chemicals (SGOMSEC)** Espoo, Finland, March 17-22, 1996. Invited to participate in the SGOMSEC 12<sup>th</sup> Workshop on the Susceptibility to Environmental Hazards. The task was to write the section on “Biological Markers of Exposure-Humans, Pesticides.”
- **Armenia**, June 1995 as Health Consultant and member of the Egyptian Delegation from the Ministry of Foreign Affairs. The visit was a mission from the *Egyptian Fund for Technical Cooperation* to discuss the possibility of cooperation between the two countries.
- **State University of Leiden**, Dept. of Radiation Genetics and Chemical Mutagenesis, Leiden, The Netherlands, 6-12 June 1992. Invited to discuss future collaboration with Dr. A.T. Natarajan and Dr. F. Sobels.
- **University of Texas Medical Branch, Galveston, Texas, U.S.A.**, June 14, 1991. Invited by the President to represent Ain Shams University, Faculty of Medicine in the Centennial Convocation Ceremony for the University of Texas Medical Branch. This prestigious event included a week of seminars and lectures.
- **Simon Fraser University and B.C. Cancer Research Center**, Vancouver, Canada (1-7 September, 1990, and 1- 7 July, 1991). Invited by Dr. Rosin to give seminars and to discuss collaborative projects.
- **British Colombia Cancer Research Center**, Vancouver, Canada during the first week of September 1990. Invited to promote international cooperation research activities. During the visit, a seminar was arranged to speak about: "Cytogenetic Monitoring studies on Egypt".

- **British Columbia Cancer Research Center**, Vancouver, Canada. Cooperated with Dr. Miriam Rosin, Associate Professor, in research studies about Prevention of the Promotion Phase of Cancer Development. Dr. Rosin visited our department in Egypt three times (February, 1990, January, 1991 and January, 1992) in order to arrange for more cooperation.
- **U.S. Environmental Protection Agency**, Division of Genetic Toxicology. North Carolina, U.S.A Invited to give a seminar about Cytogenetic Monitoring of Human Population in Egypt in August 17, 1989.

**During the appointment at the Ministry of Health and Population (1996-2002):**

Invited to visit the Centers for Disease Control and Prevention to attend ***Management for International Public Health (MIPH) Course***, Atlanta, August 23-October 1, 1999.

**Supervisor of Master Degree Theses**

1. “Cytogenetic Effect of Injectable Hormonal Contraceptives “Medroxy Progesterone Acetate” on Human Chromosomes in Vitro”, submitted by Alaa Saleh - Gynecology Department- Faculty of Medicine - Ain Shams University.
2. “Cytogenetic Study on women Using Injectable Hormonal Contraceptive “Medroxy Progesterone Acetate-Depoprovera”, submitted by Nassr El Kholy - Gynecology Department - Faculty of Medicine-Ain Shams University.
3. “Health Impact of Occupational Exposure to Anti-Cancer Drugs among Female Nurses”, submitted by Somaya Ibrahim Mohammed - Public Health Department - Faculty of Medicine-Ain Shams University
4. Potential Cytogenetic Changes among Women Using Norplant “Subdermal Implants”, submitted by Loubna Housam El Dein El Asuity-Public Health Department - Faculty of Medicine - Ain Shams University.
5. “Changing Pattern of Childhood Malignancies”, submitted by Mohammed Hisham Azzat- Pediatrics Department - Faculty of Medicine-Ain Shams University.
6. “Pattern of Hematological Disorders Attending the Hematology Clinic, Children’s Hospital, Ain Shams University”, submitted by Suzanne Ibrahim Mohammed - Pediatrics Department - Faculty of Medicine - Ain Shams University.
7. “Environmental & Parental Occupational Exposures in relation to Childhood Leukaemia”, submitted by Nanees Ahmed Ismail-Public Health Department - Faculty of Medicine-Ain Shams University.
8. “Potential Co-mutagenic Risk from Treatment of Human Schistosomiasis by Praziquantel”, submitted by Iman Bakr-Public Health Department- Faculty of Medicine- Ain Shams University.
9. Assessment of Mother’s Knowledge about Health Care of Children with Accidental Poisoning at the Poison Control Center of Ain Shams University, submitted by Mansoura Abdel Fatah Ali Saber - High Institute for Nursing - Ain Shams University.
10. In Vitro Cytogenetic Effect of Benzene and its Metabolites, submitted by Moustfa Mohammed - Faculty of Science - Ain Shams University.

11. In Vivo Cytogenetic Effect of Aflatoxin in Experimental Animals, submitted by Merfat Moustafa Mahmoud- Institute of Environment - Ain Shams University, 1993.
12. The Potential Genotoxic effect of Gemfibrozil on Somatic and Germ Cells of Male Mice, submitted by Mohammed Ahmed El Mahdi - Faculty of Pharmaceuticals - Al-Azhar University.
13. Radioactive Role of antioxidant vitamins in irradiated Albino-Mice, submitted by Sameh Solaiman Mohammed Tawfik - National Center for Radiology Research.
14. Prenatal Drugs, Chemical Compounds And Physical Agents Exposure And Risks To The Fetus And Newborn, submitted by Mohammed Abdel Mawgoud Gad - Pediatrics Department - Faculty of Medicine - Ain Shams University.
15. Health Education on Hospital Waste Management among Health Care Workers. Submitted by Dalia Ezzat Nessim- Department of Community, Environmental and Occupational Medicine, Faculty of Medicine - Ain Shams University, 1996.
16. Incidence and Fate of Filarial Antigenemia among Endemic Normals in Shebin Al-Kanater, Qaluibya, Egypt, submitted by Ehab Salah Ahmed - Department of Community, Environmental and Occupational Medicine, Faculty of Medicine - Ain Shams University, 2000.
17. Assessment of Health Problems in Mothers and Infants Resident in Unplanned Areas. Thesis submitted by Heba Al Kotb Mohamed for partial fulfillment of Master Degree in Nursing Science (Community Health Nursing), Ain Shams University, 2003.
18. Mortality Associated with Liver Diseases in Egypt (1986-2005). Azza M. Hassan, Hasnaa A. Abouseif, Mostafa El Hosseiny, Wagida A. Anwar and Mostafa K. Mohamed. for partial fulfillment of Master Degree in Nursing Science (Community Health Nursing), Ain Shams University, 2003.
19. "Assessment and Development of Medical Record System in the Oncology Unit, the Obstetrics and Gynecology Department, Ain Shams University Hospital" Thesis submitted for practical fulfillment of master degree in epidemiology By Maha Magdy Mahmoud Mohamed Wahdan, 2010.
20. Health education for type 2 diabetes melitus patient. Thesis Submitted for partial fulfillment of master degree in family medicine, by Dalia Khalifa, 2012
21. A Study of Comparison Between Community Based and Facility Based Estimates of Contraceptives Prevalence Rates in Two Upper Egyptian Governorates. Thesis Submitted for partial fulfillment of Master Degree in Public Health By Atef Mohamed El Shitany, 2012
22. Study about paternal acceptance to participate in breastfeeding education programs, Thesis Submitted for partial fulfillment of Master Degree in Public Health Mohamed Mahmoud in cooperation with Professor Arja Erikella, Assistant Professor of Nutrition, University of Eastern Finland, 2013
23. Severe Acute Respiratory Infection (SARI): Epidemiology and surveillance System in Abbassia Fever Hospital, Cairo, Egypt. Thesis Submitted for partial fulfillment of Master Degree in Epidemiology By Mohamed Mostafa Ismail El Hakim, 2018.

**Supervisor of Doctorate Degree Theses**

1. Epidemiological Study of Effects of Exposure to Diagnostic Ultrasound During Pregnancy, submitted by Hisham Mohammed Mohaba- Public Health Department - Faculty of Medicine - Ain Shams University
2. Cytogenetic and Reproductive Effects of Inhalational Anesthetic Gases and Vapor, submitted by Sherif Mohammed Raafat Zaky - Anesthesia Department - Faculty of Medicine - Ain Shams University
3. Micronucleus Frequency in Detection of Cervical Carcinoma, submitted by Soumya Ibrahim Mohammed - Public Health Department - Faculty of Medicine -Ain Shams University
4. Effect of Chemical Mutagenic Agents on Choromosomal Pattern of Egyptian Kwashiokor Infants, submitted by Omnya Fathy El Rasheedy - Pediatric Department - Faculty of Medicine - Ain Shams University
5. The Mutagenic Potentially of three Organophosphorous Compounds in Rats and Human Lymphocytes, submitted by El Huseiny Nageib Youssef El Khateeb- Institute of Environment - Ain Shams University
6. Risk Assessment of some Pesticide Residues Associated with Food Preparation, submitted by Ashraf Mahmoud El Marsefy - Institute of Environment -Ain Shams University
7. Clinicopathological and Immunopathological Studies on the Effect of a Substance that causes environmental Pollution, submitted by Mohamed Ahmed Al Derdeery Mohamed - Faculty of Veterinary Medicine - Cairo University
8. Development of Biomarkers of Human Exposure to Mycotoxins, submitted by Fatma Abdel Salam Meky - Public Health Department-Faculty of Medicine - Ain Shams University
9. Environmental and Chromosomal Studies in Growth Retardation Malformation Syndromes, submitted by Niveen Abdel Rahman Helmy El Zoghby - Department of Clinical Pathology - Faculty of Medicine - Ain Shams University
10. Role of Aflatoxin in Liver Cancer. Thesis submitted for the Degree of Ph.D. in Medical and Environmental Science, Department of Medical Science, Institute of Environmental Studies and Research, Ain Shams University, 1999, submitted by Amal Mohamed Mohamed Morsi, M.B., B.ch, M.Sc. (Clinical Pathology)
11. Detection of Philadelphia Chromosome by Fluorescent In Situ Hybridization in Chronic Myelogenous Leukemia, submitted by Omima Hassanin for Partial Fulfillment of MD in Clinical and Chemical Pathology, Faculty of Medicine, Ain Shams University, 1999.
12. Assessment of Causes of Mortality in different Geographical Regions in Egypt During 1998-2000. Submitted by Samar Sayed Ahmed for Partial Fulfillment of MD in Public Health, Faculty of Medicine, Ain Shams University, 2005.
13. Comparative Study of the possible protective effect of olive oil and vitamin C. on hepatorenal and haematological toxicity of cypermethrin and fenvalerate on adult male albino rats, Submitted by Sayeda Abdel Aziz Youssif for the Degree of Ph.D. in Medical and Environmental Science, Department of Medical Science, Institute of Environmental Studies and Research, Ain Shams University, 2006.

14. Antigen B genetic variability among different Egyptian strains of *Echinococcus granulosus* and its diagnostic potential Thesis Submitted for partial fulfillment of the M. D. Degree in Parasitology submitted by Rania Mohammad Eldemerdash Sarhan, Faculty of Medicine-Ain Shams University, 2009.
15. Maternal Nutritional Pattern and its Relation with occurrence of Intrauterine congenital Anomalies. Thesis Submitted for partial fulfillment of the M. D. Degree in Environmental Science submitted by Loay Aboul Enen Abdel Satar, Institute of Environmental Science, 2010.
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### ***Theses Discussions***

#### ***Master Degree Theses***

1. The Experimental Animal of Choice in Cytogenetic Testing, submitted by Ramadan Ahmed Mohamed Ali- Faculty of Girls - Ain Shams University, to attain master degree, 1991
2. Cytogenetic Changes among Workers Occupationally exposed to Mercury Vapor, submitted by Khaled Fekry El Said- High Institute of Public Health - Alexandria University, to attain master degree, 1994
3. Mutagenic Potentiality of Some Insecticides with Regards to their Effect on Cholinesterase in White Rat (M.Sc. Thesis) submitted in Partial Fulfillment of the Requirements for the Degree of Master of Science, submitted by Mohamed Abdel Fatah Ibrahim., Faculty of Agriculture, Department of Economic Entomology and Pesticides, Cairo University, 1994
4. Green Agriculture and the Rural House's Requirement submitted by Mokhtar Abdel-Mohsen Aly, Environmental Studies and Research Institute, Engineering Department, 2002

#### ***Doctorate Degree Theses***

1. Biomonitoring of Occupational Exposure to some Chemical Hazards in Small and Medium Size Industries, submitted by Hanan Ali Abdel Hameed- High Institute of Public Health - Alexandria University, to attain doctorate degree, 1993
2. Molecular Studies on The Effect of Some Natural Biological Pesticides in Experimental Animals by Fatma Hamam, Faculty of Science, Ain Shams University, to attain doctorate degree, 1999

### **Publications**

[https://www.researchgate.net/profile/Wagida\\_Anwar2](https://www.researchgate.net/profile/Wagida_Anwar2)

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Citations 6281 h-index 34

### **International Publications**

Date	Journal	Authors	Title
2023	eClinicalMedicine.	Asieh Mansouri, Alireza Khosravi, Kamran Mehrabani-Zeinabad, Jacek A Kopiec, Karam II Adawi, Michelle Lui, Hanan F Abdul Rahim, <b>Wagida Anwar</b> , Ibtihal Fadhil, Kadhim Sulaiman, Nooshin Bazargani, Georges Saade, Hasan A Farhan, Wael AlMahmeed, Syedah Saira Bokhari, Nejat Hassen, Amani Alandejani, Shahin Shirani, Amr Abdin, Yosef Manla, Catherine Johnson, Benjamin Stark, Gregory A Roth, Ali H Mokdad, Sheikh Mohammed Shariful Islam, Nizal Sarrafzadegan	<i>Trends in the burden and determinants of hypertensive heart disease in the Eastern Mediterranean region, 1990–2019: an analysis of the Global Burden of Disease Study 2019.</i>
2023	researchsquare.com	Masoumeh Sadeghi, Marjan Jamalian, Kamran Mehrabani-Zeinabad, Karam II Adawi, Jacek Kopiec, Wael AlMahmeed, Hanan F Abdul Rahim, Hasan A Farhan, Wagida A Anwar, Yosef Manla, Ibthihal Fadhil, Michelle Lui, Hamidreza Roohafza, Sheikh Mohammed Shariful Islam, Kadhim Sulaiman, Nooshin Bazargani, Georges Saade, Nejat Hassen, Amani A Alandejani, Amr Abdin, Khalid AlHabib, Saira Bokhari, Catherine Johnson, Gregory A Roth, Benjamin Stark, Nizal Sarrafzadegan, Ali Mokdad	<i>The burden of Ischemic Heart Disease and the Epidemiologic Transition in the Eastern Mediterranean Region: 1990-2019</i>
2023	medRxiv 2023.11. 10.23298366	Brandon Buxton, Amr Hassan, Nevin Shalaby, John W Lindsey, John Lincoln, Elmer Bernstam, Wagida Anwar, Degui Zhi, Laila Rasmy	<i>Vision Impairment prediction for patients diagnosed with Multiple Sclerosis: Cosmos based model training and evaluation</i>
2023	EClinicalMedicine, 56.	Razieh Hassannejad, Davood Shafie, Karam I Turk-Adawi, Ahmad Mohammad Hajaj, Kamran Mehrabani-Zeinabad, Michelle Lui, Jacek A Kopiec, Hanan F Abdul Rahim, Saeid Safiri, Ibtihal Fadhil, <b>Wagida A Anwar</b> , Ali H Mokdad, Sheikh Mohammed Shariful Islam, Nizal Sarrafzadegan	<i>Changes in the burden and underlying causes of heart failure in the Eastern Mediterranean Region, 1990–2019: An analysis of the Global Burden of Disease Study 2019.</i>
2023	medRxiv 2023.11. 14.23298506	Paul Henriot, Mohamed El Kassas, <b>Wagida Anwar</b> , Samia Girgis, Kevin Jean, Laura Temime	<i>An agent-based model to simulate the transmission dynamics of bloodborne pathogens within hospitals</i>

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2022	Nature, 611 332-345	<i>JV Lazarus, D Romero, CJ Kopka, SA Karim...Wagida Anwar.. et al.</i>	<i>A multinational Delphi consensus to end the COVID-19 public health threat</i>
2022	The Journal of Infection in Developing Countries 16: 07,1138-1147	<i>Mohamed El-Kassas, Maha El Gaafary, Mohamed Elbadry, Mohamed Ahmed Medhat, Hany Dabbous, Essam Ali Hassan, Ahmed Abdelmoaty, Hadi Karam-Allah, Hamdy Sayed, Amr Abdalazeem, Ahmed Fouad Sherief, Eman Fares, Maha Alsadik, Ehab Moustafa, Wagida Anwar, Hossam Abdelghaffar, Khaled Abdelghaffar</i>	<i>The COVEG score to predict severity and mortality among hospitalized patients with COVID-19</i>
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2022	Eastern Mediterranean Health Journal. 28: 5, 336-344	<i>Maha Wahdan, Sally Hakim, Maha El Gaafary, Dalia Sos, Ghada Wassif, Wafaa Hussein, Amany Mokhtar, Amr Hussein, Mohamed El Awady, Mervat Rady, Wagida Anwar</i>	<i>Rising trends in delivery mode in 6 Egyptian governorates.</i>
2022	UK Universities Climate Network 1-13	<i>W Anwar, A Bian, G El Feky, M El-Meteini, G Esmat, M Ghanem, A Haines, G Kulk, A Kassem, M Merchant, T Morse, N Ockendon-Powell, Rokia Raslan, A Radwan, T Rawson, E Robinson, M Sakr, PR Tiwari</i>	<i>Addressing Climate Change Impacts on Health</i>

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