

Sayed F. Abdelwahab, Ph.D.



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Date of Birth: April 13, 1966
Place of Birth: Minia, Egypt
Marital status: Married
Nationality: Egyptian

Education:

- 1) Ph.D. Microbiology and Immunology (1997-2002). Dissertation: Production of anti-HIV-1 factors during antigen-specific differentiation of naïve human CD4⁺ T cells *in vitro*, University of Maryland, Baltimore (USA).
- 2) Master's Degree in Pharmaceutical Microbiology (1991-1994), Faculty of Pharmacy, Zagazig University, Egypt. Thesis: "Prevalence of Shigella and Salmonella genera in rural and urban areas in El-Minia Governorate".
- 3) B.Sc. of Pharmaceutical Sciences (1984-1989), Faculty of Pharmacy, Assuit University, Egypt. Grade: Excellent with the degree of honor, top ranked student at Assuit University.
- 4) Passed the American Foreign Pharmacy Graduates Equivalency Exam (FPGEE) exam, June 2005.

Professional positions held:

1. **Ambassador** of American Society of Microbiology in Egypt, Jan 2018-Dec 2023.
2. **Professor**, Department of Microbiology/Pharmaceutics and Industrial Pharmacy, College of Pharmacy, Taif University, Taif, KSA, Sept. 2014-present.
3. **Co-Director**, Curricula Development Unit, College of Pharmacy, Taif University, Taif, KSA, March. 2015-present.
4. **Director**, Quality Assurance Unit, College of Pharmacy, Taif University, Taif, KSA, Sept. 2014-Feb 2015.
5. **Professor**, Department of Microbiology and Immunology, Faculty of Medicine, Minia University, June 2014-present.
6. **Director**, Faculty Leadership Development Center (FLDC), Minia University, May 2012-Sept 2014.

7. **Associate professor**, Department of Microbiology and Immunology, Faculty of Medicine, Minia University, June 2009-June 2014.
8. **Lecturer (Assistant professor)**, Department of Microbiology and Immunology, Faculty of Medicine, Minia University, March 2004-June 2009.
9. **Consultant Microbiologist and Immunologist**, Egyblood/VACSERA, Cairo from Feb 2004-Sept. 2014.
10. **Consultant Immunologist**, University of Maryland-Egypt Hepatitis C Project conducted by the Center for Health Research Project (CHRP) at the National Tropical Medicine Research Institute, and currently at Egyblood/VACSERA, Cairo from February 2004-Sept 2014.
11. **Adjunct Assistant Professor**, Institute of Human Virology, University of Maryland, Baltimore, June 2004-July 2008.
12. **Post-doctoral fellow**, Prof. G. K. Lewis Lab, Institute of Human Virology, University of Maryland, Baltimore, 2002-2004.
13. **Graduate student**, Department of Microbiology and Immunology, University of Maryland, Baltimore 1997-2002.
14. **Assistant lecturer**, Department of Microbiology and Immunology, Faculty of Medicine, Minia University, April 1994-March 2004.
15. **Demonstrator**, Department of Microbiology and Immunology, Faculty of Medicine, Minia University, June 1991-April 1994.
16. **Demonstrator**, Department of Pharmacognosy and Medicinal Plants, Faculty of Pharmacy, Assuit University, October 1989-June 1991.

Completed Research Support:

1. **Taif University** Project #1-1-441-57, Elagan, S. (PI). 1/5/2020-30/1/2021. The project is entitled “Remote diagnostic and detection of coronavirus disease (COVID-19) system based on intelligent healthcare and internet of things”. The aim of this grant was to develop a novel system for remote detection of COVID-19 patients based on artificial intelligence technology and internet of things (IoT) in order to stop the virus spreading at an early stage.
Role: Co-PI, Total Budget: 50,000 SAR.
2. **Taif University** Project #1-1-437-5211, Abdelwahab, S. (PI). 1/10/2016-30/4/2018. The project is entitled “Genotypic detection of carbapenemases in *Acinetobacter* spp. isolated from tertiary care hospitals in Taif city”. The aim of this grant is to evaluate the genetic mechanisms of carbapenemases resistance among *Acinetobacter* isolates in Taif area, KSA.
Role: PI, Total Budget: 73,000 SAR.
3. **Taif University** Project #1-437-5292, Abdelwahab, S. (PI). 1/10/2016-30/4/2018. The project is entitled “Genotypic detection of quinolone resistance among clinical isolates of *Pseudomonas* species recovered from Taif area”. The aim of this grant is to evaluate the genetic mechanisms of quinolone resistance among *Pseudomonas* isolates in Taif area, KSA.
Role: PI, Total Budget: 62,400 SAR.
4. **STDF HCV TC 2/Health/2009/hep-1.1** Project #1664, Abdelwahab (PI). 23/5/2011-22/6/2014. The project is entitled “Assessment of hepatitis C protective cellular immune responses among Egyptian health care workers at high risk of infection”. The purpose of this grant is to evaluate the cell mediated immunity in seronegative, aviremic health care workers at the National Liver Institute (NLI), who are at very high risk of getting HCV infection.
Role: PI, Total Budget: 1,048,800LE. *Extended till May 22nd 2014 at no additional cost.*
5. **FP7** Project # 260844, Diepolder, H (Coordinator). 1/11/2010-31/10/2013. A SICA collaborative project funded by the European Commission (Framework Program 7). The

- project is entitled: Host and viral factors in acute hepatitis C (Acronym: HEPACUTE). This project investigates the early events in acute HCV infection with the aim to identify new biomarkers. Total budget: €3,000,000 (allocated to Dr Abdelwahab: €243,000). Role: Egyptian Major Collaborator and leader of work package 8 (among 17 partners from 6 European countries, Morocco and Egypt). *Extended till April 30th 2014 at no additional cost.*
6. **FP6** Project # 037435, Cortese, R (Coordinator). 1/2/2007-31/7/2012. An integrated project funded by the European Commission (Framework Program 6). The project is entitled: New preventative and therapeutic Hepatitis C vaccines: from pre-clinical to phase 1 (Acronym: HEPACIVAC). Role: Egyptian Major Collaborator (among twelve other partners from 6 European countries and Egypt). Egypt's total budget: €450,000. (no cost extension for 6 months)
 7. 02-2007-049, Mohamed MM (P.I.): Inflammatory Breast Cancer: Research paradigm for understanding disease morbidity in the period from 1/10/07 – 30/1/09, supported by **Avon Foundation**. This project aims to define pathobiological characteristics of inflammatory breast cancer that can be used diagnostically and potentially for the design of efficacious therapeutic agents/strategies for treatment of IBC. Role: Co-investigator. Total budget is \$75,000.
 8. LE13KO.48 & .49 El-Kamary (PI): Efficacy of silymarin for acute hepatitis in Egypt: a randomized, double-blinded, two-dose, placebo-controlled trial: 7/1/07 – 12/31/08: **Madaus GmbH Corporation**, Cologne, Germany. The purpose of this grant is to evaluate the effect of a commonly used herbal supplement, silymarin, on acute and chronic hepatitis and its role on mediating the inflammatory pathology in the liver in viral and non-viral causes of hepatitis. Role: Co-investigator
 9. 5R21AI67868-2 funded by **NIH** (Shata): Towards Understanding the Morbidity of Hepatitis E Virus Infection. August 2006 to July 2008. Role: Co-investigator.
 10. Development of an Educational Infection Control Course in Minia University Hospital. 07/16/2005-01/15/2007. Project number: D-026-M0 supported by the **HEEPF** branch of the Egyptian Ministry of Higher Education. Role: Manager (Principal Investigator). Total fund: \$100,601 USD.
 11. Establishment of an internal quality assurance unit in the faculty of Medicine, Minia University starting December 2005 (for 1 year) supported by the **QAAP** branch of the Egyptian Ministry of Higher Education. Role: Co-Manager (Co-investigator). Total fund: LE 150,000.
 12. 1U01HD39164 (Strickland) 9/15/00 - 8/31/06 **NIAID**, Determinants of Hepatitis C & E Morbidity. This project describes the epidemiology of HEV in areas of unparalleled endemicity (Egypt), assess community-level impact on pregnancy and fetuses, assess the pattern of infection early in life, and assess zoonotic potential and type HEV. Role: Co-investigator.
 13. 059113 Strickland (PI); 7/1/00 - 6/30/07: **Welcome Trust**: Evaluation of Protective, Disease-Associated & Therapeutic Immunity to Hepatitis C Virus Infection. This project conducted immunological evaluations in Egypt to gain a better understanding of the mechanisms of "protective immunity" that enables a person to spontaneously clear acquired infection, "disease-associated immunity" which relates to whether a person with chronic infection develops cirrhosis, and "therapeutic immunity" to develop more effective treatment(s) for HCV. Role: Co-investigator.

Professional Publications:

A. Peer Reviewed International Publications:

1. Sunil Kumar, R.P. Chauhan, Abdel-Haleem Abdel-Aty, **Sayed F. Abdelwahab**, 2021. A study on fractional tumour-immune-vitamins model for intervention of vitamins. (**Accepted, Results in Physics, 2021**).
2. Ahmed M. M. Okasha, Hatem A. Mohamed, Amany H. Abdel Naiem, Reham F. Mohamed, **Sayed F. Abdelwahab**, and Moustafa M. Mohamed. Cyclosporine ameliorates silica-induced autoimmune hepatitis in rat model by altering the expression of toll-like receptor-4, interleukin-2 and tumor necrosis factor- α . (**Accepted, Current Molecular Medicine, 2021**).
3. Bo W, Ahmad Z, Alanzi AR, Al-Omari AI, Hafez E, **Abdelwahab SF**. 2022. The Current COVID-19 Pandemic in China: An Overview and Corona Data Analysis. *Alexandria Engineering Journal*, 61 (2): 1369-1381).
4. Noor, M.A., Raza, A., Arif, M.S., Rafiq, M., Nisar, K.S., Khan, I. and **Abdelwahab, S.F.**, 2022. Non-standard computational analysis of the stochastic Covid-19 pandemic model: an application of computational biology. *Alexandria Engineering Journal*, 61(1), pp.619-630.
5. Althobaiti, S.O., Alhumaidi, G.O., Alwagdani, W.M., Almaroani, K.M., Altowairqi, B.S., Alhaddad, M.S. and **Abdelwahab, S.F.**, 2021. Assessment of Knowledge, Attitude, and Practice among Saudi Residents Regarding Hepatitis E Virus. *The American journal of tropical medicine and hygiene*, p.tpmd210841.
6. Bashair S. Alotaibi; Maryam A. Althobaiti; Amal Y. Hazazi; Sarah Y. Hazazi; Rawan A. Nassir, Mahmoud S. Alhaddad, **Sayed F. Abdelwahab**, 2021. Exploration of Knowledge, Attitude and Practice Among Residents of Saudi Arabia Towards Hepatitis Viruses. *Inquiry, The Journal of Health Care Organization, Provision, and Financing*, 58:1-10.
7. Hussain, T., Ozair, M., Komal, A., Awan, A.U., Alshahrani, B., **Abdelwahab, S.F.** and Abdel-Aty, A.H., 2021. Theoretical assessment of cholera disease and its control measures. *Chaos, Solitons & Fractals*, 153, p.111528.
8. Thissera, B., Sayed, A.M., Hassan, M.H., **Abdelwahab, S.F.**, Amaeze, N., Semler, V.T., Alenezi, F.N., Yaseen, M., Alhadrami, H.A., Belbahri, L. and Rateb, M.E., 2021. Bioguided Isolation of Cyclophenin Analogues as Potential SARS-CoV-2 Mpro Inhibitors from *Penicillium citrinum* TDPEF34. *Biomolecules*, 11(9), p.1366.
9. Abdelaziz, M.H., Ji, X., Wan, J., Abouelnazar, F.A., **Abdelwahab, S.F.** and Xu, H., 2021. Mycobacterium-Induced Th1, Helminths-Induced Th2 Cells and the Potential Vaccine Candidates for Allergic Asthma: Imitation of Natural Infection. *Frontiers in Immunology*, p.3110.
10. Al-Sanea MM, Abelyan N, Abdelgawad MA, Musa A, Ghoneim MM, Al-Warhi T, Aljaeed N, Alotaibi OJ, Alnusaire TS, **Abdelwahab SF**. 2021. Strawberry and Ginger Silver Nanoparticles as Potential Inhibitors for SARS-CoV-2 Assisted by In Silico Modeling and Metabolic Profiling. *Antibiotics (Basel)* 10 (7): 824
11. Noor MA, Raza A, Arif MS, Rafiq M, Nisar KS, Khan I, **Abdelwahab SF**. 2021. Non-standard Computational Analysis of the Stochastic COVID-19 Pandemic Model: An Application of Computational Biology. *Alexandria Engineering Journal*, 61 (1): 619-630.
12. **Abdelwahab SF**, Issa UH, Ashour HM. 2021. A Novel Vaccine Selection Decision-Making Model (VSDMM) for COVID-19. *Vaccines (Basel)* 9: 718

13. Zafar ZUA, Ali N, Younas S, **Abdelwahab SF**, Nisar KS. **2021**. Numerical investigations of stochastic HIV/AIDS infection model. *Alexandria Engineering Journal* 60: 5341-63
14. **Abdelwahab SF**, Mohamed MK, Ali WY, Ali AS. 2021. Role of polymeric materials in preventing COVID-19 infection. *Archives of Virology*, 166:2487–2493.
15. Sardar M, Khajanchi S, Biswas S, **Abdelwahab SF**, Nisar KS, **2021**. Exploring the dynamics of a tumor-immune interplay with time delay. *Alexandria Engineering Journal* 60: 4875-88
16. Khajanchi S, Sarkar K, Mondal J, Nisar KS, **Abdelwahab SF**. **2021**. Mathematical modeling of the COVID-19 pandemic with intervention strategies. *Results Phys* 25: 104285
17. Kumar P, Erturk VS, Yusuf A, Nisar KS, **Abdelwahab SF**, **2021**. A study on canine distemper virus (CDV) and rabies epidemics in the red fox population via fractional derivatives. *Results in Physics* 25: 104281
18. Elagan SK, **Abdelwahab SF**, Zanaty EA, Alkinani MH, Alotaibi H, Zanaty MEA. **2021**. Remote diagnostic and detection of coronavirus disease (COVID-19) system based on intelligent healthcare and internet of things. *Results Phys* 22: 103910
19. Hassuna NA, El Feky M, Hussein AAM, Mahmoud MA, Idriss NK, **Abdelwahab SF**, Ibrahim MA. **2021**. Interleukin-18 and interferon- γ single nucleotide polymorphisms in Egyptian patients with tuberculosis. *Plos one* 16 (1): e0244949
20. Ahmed EF, Gad GF, Soliman WE, El-Asady RS, Hasaneen AM, **Abdelwahab SF**. **2021**. Prevalence of methicillin-resistant coagulase-negative staphylococci among Egyptian patients after surgical interventions. *Tropical Doctor*, 51: 40-4; DOI: 10.1177/0049475520962740.
21. **Abdelwahab SF**, Hamdy S, Osman AM, Zakaria ZA, Galal I, Sobhy M, Hashem M, Allam WR, Abdel-Samiee M, Rewisha E, Waked I. **2021**. Association of the Polymorphism of the Toll-like Receptor (TLR) 3 and TLR9 Genes with Hepatitis C Virus-Specific Cell-Mediated Immunity Outcomes Among Egyptian Healthcare Workers. *Cellular and Experimental Immunology*, **203** (1): 3-12, doi: 10.1111/cei.13514.
22. Heba A. Hassan; Mahmoud M. Genidy; Mohamed S. Kamel; and **Sayed F. Abdelwahab**. Synergistic antifungal activity of mixtures of clove, cumin and caraway essential oils and their major active components. *J. Herbal Medicine* **2020**, 24: 100399.
23. Mohamed Hamed Abdelaziz, **Sayed F Abdelwahab**, Jie Wan, Wei Cai, Wang Huixuan, Cheng Jianjun, Kesavan Dinesh Kumar, Aparna Vasudevan, Ahmed Sadek, Zhaoliang Su, Shengjun Wang, Huaxi Xu. Alternatively activated macrophages; a double-edged sword in allergic asthma. *Journal of Translational Medicine* **2020**, 18 (1): 58-69.
24. H. A. Hassan, **S. F. Abdelwahab**, S. Y. Desoukey , K. M. Mohamed, M. S. Kamel. Comparative study of antimicrobial activity of seven Ficus species cultivated in Egypt. *Indian J. Public Health Research & Development*, **2020**, vol. 10(11): 934-939.
25. M.F. El-Badawy, **S. F. Abdelwahab**, S. A. Alghamdi, and M. M. Shohayeb. Characterization of phenotypic and genotypic traits of carbapenem-resistant *Acinetobacter baumannii* clinical isolates recovered from a tertiary care hospital in Taif, Saudi Arabia. *Infection and drug resistance*, **2019**: 12: 3113-3124.
26. MF El-Badawy, MM Alrobaian, MM Shohayeb, **SF Abdelwahab**. Investigation of six plasmid-mediated quinolone resistance genes among clinical isolates of pseudomonas: a genotypic study in Saudi Arabia. *Infection and drug resistance*, **2019**: 12, 915-923.
27. Ahmed O. El-Nezhawy, Majed M. Al-Robayan, Ahmed Khames, Mohamed F. El-Badawy, **Sayed F. Abdelwahab**. Design and Total Synthesis of (-)-Codonopsinine, (-)-Codonopsine

- and Codonopsinine Analogues by O-(2-oxopyrrolidin-5-yl)trichloroacetimidate as Amidoalkylating Agent with Improved Antimicrobial Activity via Solid Lipid Nanoparticle Formulations (**Bioorganic and Medicinal Chemistry**, **2019**; 27 (7), 1263-1273).
28. Wahid A, Hamzawy MA, Khalifa MMA, Gad GFM, Bekhit A, **Abdelwahab SF**. RNA protein kinase SNP at -226 C<T is a biomarker for the clearance of HCV among Egyptian patients. **Immunol Invest**. **2019**, 48 (3): 211-221. doi:10.1080/08820139.2018.1493496.
 29. Z.A. Zakaria, S. Knapp, M. Hashem, H. Zaghla, M. Thursz, I. Waked, and **S.F. Abdelwahab**. Interleukin 28A. rs12980602 and interleukin 28B. rs8103142 genotypes could be protective against HCV infection among Egyptians. **Immunologic research**, **2018**: 1-11. doi.org/10.1007/s12026-018-9035-2
 30. Hashem M, Zaghla H, Zakaria Z, Allam WR, Sameea EA, Mikhail NN, Sobhy M, Galal IF, Mokhtar Y, Hamdy S, Galal G, **Abdelwahab SF**, Waked I. High spontaneous clearance of symptomatic iatrogenic acute hepatitis C genotype 4 infection. **J Med Virol**. **2018** Jul 16. doi: 10.1002/jmv.25270.
 31. Hassan HA, Genidy MM, **Abdelwahab SF**, Abd-Elghany MI, Sarhan HA, Abdelghany AA, Kamel MS, Rodriguez AE, Alio JL. Topical Eugenol Successfully Treats Experimental Candida albicans-Induced Keratitis. **Ophthalmic Res**. **2018**;60(2):69-79. doi: 10.1159/000488907.
 32. Hamdy S, Osman AM, Zakaria ZA, Galal I, Sobhy M, Hashem M, Allam WR, Abdel-Samiee M, Rewisha E, Waked I, **Abdelwahab SF**. Association of Toll-like receptor 3 and Toll-like receptor 9 single-nucleotide polymorphisms with hepatitis C virus persistence among Egyptians. **Arch Virol**. **2018** Jun 2. doi: 10.1007/s00705-018-3893-8.
 33. Dalia N. Kotb, Mona A. Esmail, **Sayed F. Abdelwahab**, Mohamed Abdel-Hamid: Evaluation of Hepatitis C Virus Core Antigen as a Marker for Hepatitis C Virus Infection among Egyptians. **Eastern Mediterranean Health Journal**, **2017**; 23 (4): 280-286
 34. Abdelkareem MZ, Sayed M, Hassuna NA, Mahmoud MS, **Abdelwahab SF**. Multi-drug-resistant Enterococcus faecalis among Egyptian patients with urinary tract infection. **Journal of Chemotherapy** **2017**; 29 (2): 74-82.
 35. Abdelraheem WM, Hassuna NA, Abuloyoun SM, Ghany HMA, Rizk HA, **Abdelwahab SF**. Interleukin-10. rs1800896 and Interleukin-18. rs1946518 gene polymorphisms could not predict the outcome of hepatitis C virus infection in Egyptian patients treated with pegylated interferon plus ribavirin. **Archives of virology** **2016**; 161(9): 2473-2480
 36. Mehta M, Hetta HF, Abdel-hameed EA, Rouster SD, Hossain M, Mekky MA, Khalil NK, Mohamed WA, El-Feky MA, Ahmed SH, Daef EA, El-Mokhtar MA, **Abdelwahab SF**, Medhat A, Sherman KE, Shata MTM. Association between IL28B rs12979860 single nucleotide polymorphism and the frequency of colonic Treg in chronically HCV-infected patients. **Archives of virology** **2016**; 161(11): 3161-3169.
 37. Hasan G, Assiri A, Marzuuk N, Daef E, **Abdelwahab S**, Ahmed A, Mohamad I, Al-Eyadhy A, Alhaboob A, Temsah M-H. Incidence and characteristics of hepatitis E virus infection in children in Assiut, Upper Egypt. **Journal of International Medical Research** **2016**: 0300060516659575

38. **Abdelwahab SF**. Cellular immune response to hepatitis-C-virus in subjects without viremia or seroconversion: is it important? *Infectious agents and cancer* **2016**; 11(1): 1.
39. Mahdi WK, Hassuna NA, Esmail MA, Hammad SS, **Abdelwahab SF**. Molecular Typing of Methicillin Resistant *Staphylococcus aureus* Colonizing Egyptian Healthcare Workers and Patients. *Int J Curr Microbiol App Sci* **2016**; 5(6): 687-698.
40. Soha S. Abdelrahim, Rasha M. M. Khairy, Mona A. Esmail, Mahmoud R. Mohamed, Mohamed Abdel-Hamid, and **Sayed F. Abdelwahab**. Occult hepatitis C virus infection among Egyptian hemodialysis patients. *Journal of Medical Virology*, **2016**; 88:1388–1393. DOI: 10.1002/jmv.24467.
41. Fawzy M, Wahid A, Nazmy M, Hashem M, Waked I, **Abdelwahab S**. Association of Interleukin-27 rs 153109 Single Nucleotide Polymorphism with Spontaneous Resolution of Hepatitis C Virus-Genotype 4a Infection in Egyptian Patients. *Asian Pacific journal of cancer prevention: APJCP* **2015**; 17(4): 2093-2097.
42. Ibrahim M. Sayed, Ann-Sofie Vercauter, **Sayed F. Abdelwahab**, Koen Vercauter, Philip Meuleman. Is HEV an emerging problem in industrialized countries? *HEPATOLOGY* **2015**; 62: 1883-1892, doi: 10.1002/hep.27990.
43. **Sayed F. Abdelwahab**, Zainab Zakaria, Maha Sobhy, Shaimaa Hamdy, Mohamed A. Mahmoud, Nabil Mikhail, Walaa R. Allam, Eman Rewisha, and Imam Waked. Differential Distribution of IL28B.rs12979860 Single Nucleotide Polymorphism among Egyptian Healthcare Workers with and without Hepatitis C Virus-Specific Cellular Immune Response. *Archives of Virology*, **2015**; 160:1741-1750.
44. **Sayed F. Abdelwahab**, Zainab Zakaria; Walaa R. Allam; Shaimaa Hamdy; Mohamed A. Mahmoud; Maha Sobhy, Eman Rewisha, and Imam Waked. Interleukin 28B.rs12979860 Genotype does not Affect Hepatitis C Viral Load among Egyptians with Genotype 4 Infection. *Archives of Virology*, **2015**; 160 (7):2833–2837.
45. Ahmed O. H. El-Nezhawy, Ahmad Farouk Eweas, Ibrahim A. Maghrabi, Ahmed Salah Edalo, and **Sayed F. Abdelwahab**. Design, synthesis, and molecular docking of novel pyrrolooxazepine diol derivatives with anti-Influenza neuraminidase activity. *Archiv der Pharmazie*, **2015**; 348, 1–10.
46. Ibrahim M Sayed, Koen Vercauter, **Sayed F Abdelwahab** & Philip Meuleman. The emergence of hepatitis E virus in Europe. *Future Virol.* (**2015**); 10(6), 763–778.
47. Ghada M. Abd-Elmeged; Rasha M. Khairy; Sahar M. Abo-Eloyoon and **Sayed F. Abdelwahab**. Changing patterns of drug-resistant *Shigella* isolates in Egypt. *Microbial Drug Resistance*, **2015**; 21(3):286-91. doi: 10.1089/mdr.2014.0187.
48. Susanne Knapp, Zainab Zakaria, Mohamed Hashem, Hassan Zaghla, Salim I. Khakoo, Imam Waked, Mark Thursz, and **Sayed F. Abdelwahab**. Influence of IFNL3.rs12979860 and IFNL4.ss469415590 Polymorphism on the Clearance of Hepatitis C Virus Infection among Egyptians. *Hepatology International*, **2015**; 9(2): 251-257.
49. Eman F. Ahmed; Gamal F. M. Gad; Ahlam M. Abdalla; Ayman M. Hasaneen; and **Sayed F. Abdelwahab**. Prevalence of Methicillin Resistant *Staphylococcus aureus* among Egyptian Patients after Surgical Interventions. *Surg. Infect.* **2014**; Aug;15(4):404-11.
50. Iman Fathy; Zainab Zakaria; Walaa R. Allam; Mohamed A. Mahmoud; Ahmed Refaat; Ahmed Osman; Imam Waked; G. Thomas Strickland; and **Sayed F. Abdelwahab** (2014).

- Cross reactivity in cellular immune response to HCV G-1 and 4 antigens among G-4-infected patients (**PLoS1**, 2014 Jun 30; 9(6):e101264. doi: 10.1371/journal.pone.0101264. eCollection 2014.
51. Fatma O. I. Saleh; Hazem A. Ahmed; Rasha M. M. Khairy; and **Sayed F. Abdelwahab**. Increased Quinolone Resistance among Typhoid Salmonellae Isolated from Egyptian Patients (**J. Infect. Develop. Countries**; 2014; 8(5):661-665. doi:10.3855/jidc.4111).
 52. Walaa R. Allam; Ahmed Barakat; Zainab Zakaria; Gehan Galal; Tamer S. Abdel-Ghafar; Mohamed El-Tabbakh; Nabeil Mikhail; Imam Waked; and **Sayed F. Abdelwahab** (2014). Schistosomiasis does not affect the outcome of HCV infection in genotype 4-infected patients. **Amer. J. Trop. Med. Hyg.**, 90(5):823-9. doi: 10.4269/ajtmh.13-0703.).
 53. Febee E. Habil, Wafaa K. M. Mahdi, **Sayed F. Abdelwahab**, and Mohamed Abdel-Hamid. Hepatitis B virus genotype D predominates HBsAg positive Egyptian blood donors and is mainly associated with a negative HBeAg serostatus. **Intervirology**, July, **2013**; 56(5):278-83.
 54. **Sayed F. Abdelwahab**, Mohamed Hashem, Iman Galal, Maha Sobhy, Tamer S. Abdel-Ghaffar, Gehan Galal, Nabeil Mikhail, Samer S. El-Kamary, Imam Waked, and G. Thomas Strickland. Incidence of Hepatitis C Virus Infection among Egyptian Healthcare Workers at High Risk of Infection. **J. Clin. Virol.**, **2013**; (57): 24-28.
 55. Samer S. El-Kamary, Mohamed Hashem, Doaa A. Saleh, **Sayed F. Abdelwahab**, Maha Sobhy, Fatma M. Shebl, , Michelle D. Shardell, G. Thomas Strickland, and Mohamed Tarek Shata. Hepatitis C Virus-Specific Cell-Mediated Immune Responses in Children Born to Mothers Infected with Hepatitis C Virus. **J. Pediatrics**, **2013**; **62:148-54**.
 56. Shata, MT, Daef, E, Zaki, ME, **Abdelwahab, SF**, Marzuuk, NM, M, Sobhy, Rafaat, M, Abdelbaki, L, Nafeh, MA, Hashem, M, El-Kamary, SS, Shardell, MD, Mikhail, NN; Strickland, GT. Protective role of humoral immune responses during an outbreak of hepatitis E in Egypt. **Transactions of the Royal Soc. Trop. Med. and Hyg.**, **106 (2012) 613– 618**.
 57. **Sayed F. Abdelwahab**; Zainab Zakaria; Maha Sobhy; Eman Rewisha; Mohamed A. Mahmoud; Mahmoud A. Amer; Mariarosaria Del Sorbo; Stefania Capone; Alfredo Nicosia; Antonella Folgori; Mohamed Hashem; and Samer S. El-Kamary. Hepatitis C Virus-Multi-Specific T-Cell Responses without Viremia or Seroconversion among Egyptian Healthcare Workers at High Risk of Infection. **Clinical and Vaccine Immunology**, **2012**; 19(5):780-6. DOI: 10.1128/CVI.00050-12.
 58. **Sayed Abdelwahab**, Eman Rewisha, Mohamed Hashem, Maha Sobhy, Iman Galal, Walaa R. Allam, Nabeil Mikhail, Gehan Galal, Mohamed El-Tabbakh, Samer S. El-Kamary, Imam Waked, and G. Thomas Strickland. Risk Factors for Hepatitis C Virus Infection among Egyptian Healthcare Workers in a National Liver Diseases Referral Center. **Transactions of the Society for Tropical Medicine and Hygiene (2012)** 106: 98-103.
 59. Ebtsam S. Mahrous; Mirret M. Darwish; Soheir A. Dabash; Ibrahim Marie, and **Sayed F. Abdelwahab**. Topical application of human milk reduces umbilical cord separation time and bacterial colonization compared to ethanol in newborns. **Translational Biomedicine (2012)**; 3(1:4): 1-8 (DOI: 10.3823/432).
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4. Heba Ali Hassan; Rania Alaaeldin; Muhamad Mustafa; Reham H. Mohy El-Deen; Kuniyoshi Shimizu; **Sayed F. Abdelwahab**; Samar Y. Desouky; Khaled M. Mohamed; Mohamed S. Kamel, **2021**. Chemical constituents of *Ficus benghalensis L.* with anti-proliferative and apoptotic activity against acute myeloid leukemia via topoisomerase I/P53/BAX/BCL2 pathways (**submitted to Molecules, 2021**).
5. Ahmed Abozaid Ahmed Teima, Lamiaa I. Mohammed, Zeinab A. Kasemy, Samar HA. Alosari, Mohamed Meligy Ahmed, **Sayed F. Abdelwahab**, Hassan Ahmed Elzohry, Heba Mohamed Abdallah, Sabry Moawad Abdelmageed, Mohamed A. Sakr, Mohamed Abdel-Samiee, Amany Abas Amer, **2021**. A Cross-Sectional Study of Gastrointestinal manifestations in COVID-19 Egyptian Patients (**Submitted to Archives of Clinical Medicine, 2021**).
6. Saima Rashid ,Yolanda Guerrero Sanchez, **Sayed F. Abdelwahab., 2021**. Novel analysis of nonlinear dynamics of a fractional model for tuberculosis disease via the generalized Caputo fractional derivative operator (**Submitted to Symmetry**).
7. Tanveer Sajid, Wasim Jamshed, Faisal Shahzad, Esra Karatas Akjiil, Ikram Ullah, Muhammad Sohail, Imran Ullah, **Sayed F. Abdelwahab**, Kottakkaran Sooppy Nisar, **2021**. Impact of Fourier and Ficks Law and Oxytactic Microorganisms on Stagnation Point Flow of Reiner-Philippoff Fluid. (**Submitted to Fractal and Fractional**).

E. Poster presentations:

1. **Sayed F. Abdelwahab**, Shaimaa Hamdy, Ahmed M. Osman, Zainab A. Zakaria, Iman Galal, Maha Sobhy, Mohamed Hashem, Walaa R. Allam, Mohamed Abdel-Samiee, Eman Rewisha, Imam Waked' Association of Toll-like receptor (TLR) 3 & 9 genes' polymorphism with Hepatitis C virus-specific cell-mediated immunity outcome among Egyptian healthcare workers. VIROCON 2020: International Conference on "Evolution of Viruses and Viral Diseases" 18-20 February 2020 at Indian National Science Academy, New Delhi, India
2. **Faisal Al-Ghashmari**; Mutaz Al-Harhi; Nawaf Alnufaie; Mohamed F. El-Badawy and **Sayed Abdelwahab**. Resistance of *Pseudomonas aeruginosa* Clinical Isolates from Taif Area to Extended Spectrum Beta Lactams. 23rd Dubai International Pharmaceuticals and Technologies Conference and exhibition; DUPHAT, 27 Feb-1 March 2018, Dubai, UAE.
3. Sayed Abdelwahab; Mohamed Hashem; Samer El-Kamary; Eman Rewisha; G. Thomas Strickland; and Imam Waked. Egyptian Healthcare Workers and Hepatitis C Virus Vaccines. 17th Annual International Meeting of the Institute of Human Virology, September 27-30, **2015**, Baltimore, MD, USA.
4. **Sayed F. Abdelwahab**; Zainab Zakaria; Maha Sobhy; Shaimaa Hamdy; Mohamed A. Mahmoud; Nabiel Mikhail; Walaa R. Allam; Eman Rewisha; and Imam Waked . Differential Distribution of IL28B.rs12979860 Single Nucleotide Polymorphism among Egyptian Healthcare Workers with and without Hepatitis C Virus-Specific Cellular Immune Response. 20th Dubai International Pharmaceuticals and Technologies Conference and exhibition; DUPHAT, 8-10 March 2015, Dubai, UAE.

5. Mohamed Hashem , Hassan Zaghla, Zainab Zakaria, Walaa Ramadan, Nabil Mikhail, Yasser Mokhtar, Maha Sobhy, Iman Galal, Gihan Galal, **Sayed F. Abdelwahab**, Imam Waked (2013). High Spontaneous Clearance of Symptomatic Iatrogenic Acute Hepatitis C Genotype 4 Infection. AASLD, Nov 2013, Washington DC, USA.
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9. **S. Abdelwahab**, Eman Rewisha; Maha Sobhy; Iman Galal; , Zainab A Zakaria; Mohamed A. Mahmoud; Stefania Capone; Antonella Folgori; Mohamed Hashem; Samer S. El-Kamary; G. Thomas Strickland; Riccardo Cortese; and Alfredo Nicosia. Hepatitis C Virus-specific immune response among needle-stuck Egyptian healthcare workers at high risk of infection without viremia or seroconversion. 97th annual meeting of the American Association of Immunologists, May 7th-11th, 2010, Baltimore, MD, USA.
10. Mohamed MM, El-Shinawi M, Cavallo-Medved D, Sobhy M, Nouh MA, **Abdelwahab SF**, Sloane BF. Monocytes/macrophages and natural killer cells characterize the tumor microenvironment of inflammatory breast cancer in Egyptian patients, 31st Annual San Antonio Breast Cancer Symposium, December 10-14, 2008.
11. Yongjun Guan, **Sayed Abdelwahab**, Roberta Kamin-Lewis, Anthony L. DeVico, George K. Lewis. 'Self-Protection' of Individual CD4+ T Cells against R5 HIV-1 Infection by the Synthesis of Anti-Viral CCR5. 12th annual meeting of the Egyptian Association of Immunologists, Ein El-Sokhna, Egypt, November 26-28, 2008.
12. Hashem M, El-Kamary SS, El-Karakasy H, Helmy H, **Abdelwahab SF**, El-Naghi S, Sobhy M, Galal G, Zakaria Z, Galal I, Abdelbaky A, Mansour H, Shata MT, Esmat G, Strickland G.T. Cell mediated immunity in seronegative aviremic children with intrafamilial exposure to Hepatitis C Virus. 15th International Symposium on Hepatitis C Virus and Related Viruses, 5-9 October, 2008th, San Antonio, Texas, USA.
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15. Catarina Hioe, Gurvinder Kaur, Sandra Cohen, Michael Tuen, Diana Virland, **Sayed Abdelwahab** and Alfredo Garzino-Demo (2006). Effect of HIV on production of anti-viral factors by HIV-specific CD4⁺ T cells. 10th International meeting of the Institute of Human Virology (Baltimore, MD, November 17-21, 2006).
 16. **Sayed F. Abdelwahab**, Robin Flinko, Ken Bagley, Roberta Kamin-Lewis, Robert Gallo, Anthony DeVico, and George Lewis (2004). Phenotypic and Functional Characterization of Antigen Specific Naïve Human CD4⁺ T Cell Differentiation *in vitro*. **International meeting of the Institute of Human Virology** (Baltimore, MD, October 31-Nov. 4th 2004).
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 19. **Sayed Abdelwahab**, Kenneth C. Bagley, Roberta Kamin-Lewis, Fiorenza Cocchi, Robert C. Gallo, Anthony L. Devico, and George K. Lewis (2002). CD4⁺ T cells produce factors that inhibit both X4 and R5 HIV-1 isolates during antigen-specific primary responses *in vitro*. **International meeting of the Institute of Human Virology** (Baltimore, MD, September 9-13, 2002).
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34. Kenneth C. Bagley, **Sayed F. Abdelwahab**, Timothy R. Fouts, and George K. Lewis (2000). The enzymatic activity of cholera-like enterotoxins is responsible for the activation of dendritic cells *in vitro* and for blocking the induction of oral tolerance. **Journal of Human Virology**, 3 (5): 263. **International meeting of the Institute of Human Virology** (Baltimore, MD, September 10-15, 2000).

35. Timothy R. Fouts, Ranajit Pal, Karla Godfrey, **Sayed F. Abdelwahab**, George K. Lewis, and Anthony L. DeVico (2000). Neutralization of primary isolates with sera from Rhesus macaques inoculated with sCD4 complexed with envelope proteins derived from HIV-1_{IIIB}. **Journal of Human Virology**, 3 (5): 270. **International meeting of the Institute of Human Virology** (Baltimore, MD, September 10-15, 2000).
36. Kamin-Lewis, R., **S. Abdelwahab**, A. Baker, F. Cleghorn, W. Blattner, A. DeVico, and George K. Lewis (1999). Distinct CD8⁺ T cell subsets secrete MIP-1 β : Implications for protective immunity against HIV-1. **Journal of Human Virology** 2: 231. **International meeting of the Institute of Human Virology**, Baltimore, MD September 10-14, 1999, Oral by G. Lewis).

F. Oral Presentations:

1. Sayed Abdelwahab. Recent developments in covid-19 vaccines. **First International Pharmaceutical Conference** organized by the Faculty of Pharmacy & Pharmaceutical Manufacturing at Deraya University, Egypt. ONLINE, Feb. 15-16, 2021, via Microsoft Teams .
2. S. Hamdy; A.M. Osman; Z. A. Zakaria; I. Galal; M. Sobhy; M. Hashem; W.R. Allam; M. Abdel-Samiee; E. Rewisha; I. Waked; and **Sayed Abdelwahab**. Association of Toll-Like Receptor 3 and Toll-Like Receptor 9 Single Nucleotide Polymorphisms with Hepatitis C Virus Persistence among Egyptians. 26th annual meeting of the Egyptian Society of Medical Microbiology, Cairo, March 31st, **2018**.
3. **Sayed F. Abdelwahab**; Zainab Zakaria; Maha Sobhy; Shaimaa Hamdy; Mohamed A. Mahmoud; Nabel Mikhaail; Walaa R. Allam; Eman Rewisha; and Imam Waked. Differential Distribution of IL28B.rs12979860 Single Nucleotide Polymorphism among Egyptian Healthcare Workers with and without Hepatitis C Virus-Specific Cellular Immune Response. 20th Dubai International Pharmaceuticals and Technologies Conference and exhibition; DUPHAT, 8-10 March 2015, Dubai, UAE.
4. **Sayed F. Abdelwahab**, HCV-G4 specific T cell responses during acute hepatitis. EASL 49th meeting, London, April 9th-13th, 2014.
5. **S. Abdelwahab**, Zainab A Zakaria; Maha Sobhy; Shaimaa Hamdy; Walaa Ramadan; Nabeil Mikhaail; Mohamed A. Mahmoud; Eman Rewisha; and Imam Waked. Differential Distribution of IL28B rs12979860 Single Nucleotide Polymorphism among Egyptian Healthcare Workers with and without Cellular Immune Response to Hepatitis C Virus. 3rd Omics Group World Congress on Virology, November 20-22, **2013**, Baltimore, MD, USA.
6. **S. Abdelwahab**; Maha Sobhy; Zainab A Zakaria; Shaimaa Hamdy; Walaa Ramadan; Nabel Mikhaail; Mohamed A. Mahmoud; Eman Rewisha; and Imam Waked. IL28B SNP does not predict the outcome of Hepatitis C Virus-specific cellular immune response. 14th Annual International Meeting of the Institute of Human Virology, October 14-17, **2012**, Baltimore, MD, USA.
7. **S. Abdelwahab**. What is needed to improve the care of patients with Hepatitis C in Egypt? 47th Annual meeting of the European Association for the Study of the Liver, April 18th **2012**, Barcelona, Spain.
8. **S. Abdelwahab**, Eman Rewisha; Maha Sobhy; Iman Galal; , Zainab A Zakaria; Mohamed A. Mahmoud; Stefania Capone; Antonella Folgori; Mohamed Hashem; Samer S. El-Kamary; G. Thomas Strickland; Riccardo Cortese; and Alfredo Nicosia Hepatitis C Virus-specific immune response among Egyptian healthcare workers at high risk of infection without

- viremia or seroconversion. 12th International meeting of the Institute of Human Virology, October 3rd-8th 2010, Calabria, Italy.
9. **Sayed F. Abdelwahab**, Mahmoud S. Mahmoud, and George K. Lewis. Cholera toxin differentially binds to murine lymphocytes. 17th annual meeting of the Egyptian Society of Medical Microbiology, Cairo, April 25-26th, 2010.
 10. Yongjun Guan, **Sayed Abdelwahab**, Roberta Kamin-Lewis, Anthony L. DeVico, George K. Lewis: 'Self-protection' of individual CD4+ T cells against R5 HIV-1 infection by the synthesis of anti-viral CCR5 ligands. 16th annual meeting of the Egyptian Society of Medical Microbiology, Cairo, March 25-26th, 2009.
 11. **Sayed F. Abdelwahab**, Occupational safety and immunization, EgyBlood, Vacsera, Giza, July 2nd, 2008.
 12. **Sayed F. Abdelwahab**, Infection control at Minia University Hospital: Experience and Challenges, EgyBlood, Vacsera, Giza, June 11, 2008.
 13. **Sayed F. Abdelwahab**, HCV infection in Egypt. This lecture was delivered for Pharmacists in continued Pharmaceutical Education program, Faculty of Pharmacy, Minia University, April 20th, 2008.
 14. **Sayed F. Abdelwahab**, Infection Control in Minia University Hospital: Experience and Challenges, first meeting of the Libyan Society of infection control, Tripoli, Libya, May 4-6, 2007.
 15. **Sayed F. Abdelwahab**, HIV infection and Personal Experience in USA: Towards loyalty and nationalism: for Faculty of Tourism undergraduate students and staff, Minia University, April 30, 2007.
 16. **Sayed F. Abdelwahab**, Standard Infection Control Precautions in Minia University Hospital: Experience and Challenges, 5th Annual meeting of Minia Faculty of Medicine, April 11-13, 2007.
 17. **Sayed F. Abdelwahab**, Infection Control in Minia University Hospital: Experience and Challenges, 15th annual meeting of the Egyptian Society of Microbiology, Cairo, April 5-6, 2007.
 18. **Sayed F. Abdelwahab**, Development of an Educational Infection Control Course in Minia University Hospital. 17th annual meeting of the Association of the Egyptian American Scholars, Cairo, December 26-27, 2006.
 19. **Sayed F. Abdelwahab**. T cells are depleted in HCV-induced Hepatocellular Carcinoma Patients: Possible Role of Apoptosis and p53. 10th International meeting of the Institute of Human Virology (Baltimore, MD, November 17-21, 2006).
 20. **Sayed F. Abdelwahab**, Development of an Educational Infection Control Course in Minia University Hospital. HEEP Integration meeting, Tanta Faculty of Medicine, November 2, 2006.
 21. **Sayed F. Abdelwahab**, Avian flu, an awareness day at Minia University, March 5th, 2006.
 22. Kenneth C. Bagley, **Sayed F. Abdelwahab**, Robert G. Tuskan, and George K. Lewis. *Pasteurella multocida* Toxin Activates Human Monocyte-Derived and Murine Bone Marrow-Derived Dendritic Cells *In Vitro* but Suppresses Antibody Production *In Vivo*. 10th annual meeting of the Egyptian Association of Immunologists, Mansoura, Egypt, November 23-25, 2005.
 23. **Sayed F. Abdelwahab**. An Overview of Evaluation of Antigen-Specific T Cell Responses using Flow Cytometry. 5th Arabic Conference on Arabic Education System, Cairo, Egypt, April 16-17, 2005.

24. **Sayed F. Abdelwahab**. An Overview of Evaluation of Antigen-Specific T Cell Responses using Flow Cytometry. 4th annual conference of the Faculty of Medicine, El-Minia University, El-Minia, Egypt, April 7-8, **2005**.
25. **Sayed F. Abdelwahab**, Fiorenza Cocchi, Kenneth C. Bagley, Roberta Kamin-Lewis, Robert C. Gallo, Anthony DeVico, and George K. Lewis. Secretion of HIV-1 Suppressive Factors by CD4⁺ T Cells during Primary Antigen-Specific Responses. 13th annual meeting of the Egyptian Society of Microbiology, Cairo, March 31-April 1st, **2005**.
26. **Sayed F. Abdelwahab**, Sherif A. Ibrahim, Mona M. Mohamed, Ahmed M. Osman, Eman Fathy, Kamal S. Al-Badry, Nabil Al-kady, Gamal E. Esmat, and Maged M. Al-Sherbiny. T Cell Depletion in Cases of HCV-Induced Hepatocellular Carcinoma: Possible Role of Apoptosis. 7th annual meeting of University of Maryland-Egypt Hepatitis C project, Cairo, March 2-4, 2005.
27. **Sayed F. Abdelwahab**, Robin Flinko, Ken Bagley, Roberta Kamin-Lewis, Robert Gallo, Anthony DeVico, and George Lewis (**2004**). Phenotypic and Functional Characterization of Antigen Specific Naïve Human CD4⁺ T Cell Differentiation *in vitro*. 9th annual meeting of the Egyptian Association of Immunologists, Ismailia, Egypt, November 24-26, **2004**.
28. **Sayed F. Abdelwahab**. HIV-1-suppressive factors are secreted by CD4⁺ T cells during primary immune responses, 3rd annual conference of the Faculty of Medicine, El-Minia University, El-Minia, Egypt, April **2004**.
29. **Sayed Abdelwahab**, Robin Flinko, Fiorenza Cocchi, Roberta Kamin-Lewis, Robert Gallo, Anthony DeVico, and George Lewis (2003). Different Human CD4⁺ T Cell Subsets Differentially Synthesize HIV-1 Inhibitory Chemokines During *in vitro* Primary Responses. International meeting of the Institute of Human Virology (Baltimore, MD, September 29-Oct.03, **2003**).
30. **Sayed F. Abdelwahab**, Kenneth C. Bagley, Robert G. Tuskan, and George K. Lewis (**2002**). Identification of potential memory T cells using an *in vitro* model of antigen-specific naïve human CD4⁺ T cell differentiation. Second Immunology Meeting for Graduate Students, North East Region. Cornell University, Ithaca, NY, September 28-29.
31. **Sayed F. Abdelwahab**, Kenneth C. Bagley; Roberta Kamin-Lewis and George K. Lewis. Light scatter profiles predict the surface phenotype of naïve human CD4⁺ T cells during *in vitro* antigen specific differentiation. **Journal of Human Virology**, 4 (3): 141. International meeting of the Institute of Human Virology (Baltimore, MD, September 9-13, **2001**).

Meetings Attended:

1. **First International Pharmaceutical Conference (2021)** organized by the Faculty of Pharmacy & Pharmaceutical Manufacturing at Deraya University, Egypt. Online, Feb. 15-16, 2021, via Microsoft Teams .
2. Saudi Vaccination Webinar: Immunization during pregnancy, Online, November 27, **2020**.
3. Saudi Vaccination Webinar: Pertussis vaccination throughout life, Online, September 5, **2020**.
4. **VIROCON 2020**: International Conference on “Evolution of Viruses and Viral Diseases” 18-20 February 2020 at Indian National Science Academy, New Delhi, India.
5. Technical consultation on application of whole genome sequencing for national, regional, and global antimicrobial resistance surveillance, **WHO**, 21-22 January **2020**, Geneva, (Switzerland).
6. 26th annual meeting of the Egyptian Society of Microbiology, Cairo, March 31st, **2018**.

7. 17th Annual International Meeting of the Institute of Human Virology, September 27-30, **2015**, Baltimore, MD, USA.
8. 20th Dubai International Pharmaceuticals and Technologies Conference and exhibition; DUPHAT; 8-10 March 2015, Dubai, UAE.
9. 49th Annual meeting of the European Association for the Study of the Liver, April 9-13th **2014**, London, UK.
10. 3rd Omics Group World Congress on Virology, 20-22 November **2013**, Baltimore, MD, USA.
11. 48th Annual meeting of the European Association for the Study of the Liver, April 24-28th **2013**, Amsterdam, Netherlands.
12. 14th Annual International Meeting of the Institute of Human Virology, October 14-17, **2012**, Baltimore, MD, USA.
13. 99th annual meeting of the American Association of Immunologists, May 4th-8th **2012**, Boston, MA, USA.
14. 6th Annual meeting of Minia Faculty of Medicine, April 26-27, 2012.
15. 47th Annual meeting of the European Association for the Study of the Liver, April 18-22nd **2012**, Barcelona, Spain.
16. 62nd Annual Meeting of the American Association for the Study of Liver Diseases (AASLD), November 4-8, **2011**, San Francisco, CA, USA.
17. 13th International meeting of the Institute of Human Virology, October 31st-Nov 2nd **2011**, Baltimore, MD, USA.
18. 46th Annual meeting of the European Association for the Study of the Liver, March 29th-April 3rd, **2011**, Berlin, Germany.
19. 12th International meeting of the Institute of Human Virology, October 3rd-8th **2010**, Calabria, Italy.
20. 17th International meeting on Hepatitis C virus and related viruses, September 10-14, **2010** Pacifico Yokohama, Japan.
21. 97th annual meeting of the American Association of Immunologists, May 7th-11th, **2010**, Baltimore, MD, USA.
22. 17th annual meeting of the Egyptian Society of Medical Microbiology, Cairo, April 25-26th, **2010**.
23. Fourth annual congress of Minia University Liver Center, Military Hotel, Minia, 13-14th April **2010**.
24. 14th Delta Digestive week, Arafat Hotel Tanta (26-28 July) and Intercontinental Hotel, Hurghada, 29 July-1 August **2009**.
25. 6th annual congress of Minia University Liver Center, Minia, 16-17th April **2009**.
26. 16th annual meeting of the Egyptian Society of Medical Microbiology, Cairo, March 25-26th, **2009**.
27. 12th annual meeting of the Egyptian Association of Immunologists, El-Ein El-Sokhna, Egypt, November 26-28, **2008**.
28. Liver diseases at crossroads of civilization: East meets west, Bibliotheca Alexandria, October 16-17, **2008**.
29. Second annual congress of Minia University Liver Center, Military Hotel, Minia, 3-4 April **2008**.
30. Liver diseases at crossroads of civilization: East meets west, Bibliotheca Alexandria, January 23-24, **2008**.
31. First meeting of the Libyan Society of infection control, Tripoli, Libya, May 4-6, **2007**.
32. 5th Annual meeting of Minia Faculty of Medicine, April 11-13, **2007**.

33. 15th annual meeting of the Egyptian Society of Microbiology, Cairo, April 5-6, **2007**.
34. 17th biannual meeting of the Association of the Egyptian American Scholars: Enhancement of Higher education and Scientific Research in Egypt; National Research Center, Cairo, December 26-27, **2006**.
35. 10th International meeting of the Institute of Human Virology (Baltimore, MD, November 17-21, **2006**).
36. 4th Annual meeting of Minia Faculty of Medicine, April 19-21, **2006**.
37. 14th annual meeting of the Egyptian Society of Medical Microbiology, Cairo, April 13, **2006**.
38. 10th annual meeting of the Egyptian Association of Immunologists, Mansoura, Egypt, November 23-25, **2005**.
39. 1st Eastern Mediterranean Regional infection control congress and 14th annual conference of the Egyptian Society of infection control (Building capacities), November 14-17, **2005**.
40. Wellcome-Trust meeting on infectious diseases, Cape Town, South Africa, November 7-9, **2005**.
41. 5th Arabic Conference on Arabic Education System, Cairo, Egypt, April 16-17, **2005**.
42. First international conference of Minia University Environmental Affairs: Towards a safe and clean Environment; Minia University, Minia, April 15-18, **2005**.
43. 3rd annual conference of the Faculty of Medicine, El-Minia University: Medical practice, reality and expected; El-Minia, Egypt, April 7-8, **2005**.
44. 13th annual meeting of the Egyptian Society of Microbiology, Cairo, March 31-April 1st, **2005**.
45. 7th annual meeting of University of Maryland-Egypt Hepatitis C project, Cairo, March 2-4, **2005**.
46. Biannual meeting of the Association of the Egyptian American Scholars : The role of Science and technology in the future of Egypt; National Research Center, Cairo, December 29-30, **2004**.
47. International meeting of the Institute of Human Virology (Baltimore, MD, October 31-Nov. 4th **2004**).
48. 11th National (3rd Arabic) Conference on Higher Education in Arabic Countries: Horizons of Improvement. Ain Shams University, Cairo, December 18-19, **2004**.
49. Meeting of the Egyptian Society of Virology, Cairo University, Cairo, December 7-8, **2004**.
50. 9th annual meeting of the Egyptian Association of Immunologists, Ismailia, Egypt, November 24-26, **2004**.
51. 2nd Annual meeting of Minia Faculty of Medicine, April 4-6, **2004**.
52. International meeting of the Institute of Human Virology (Baltimore, MD, September 29th-October 3rd, **2003**).
53. AIDS Vaccine 2003. NY Hilton, NY. September 18-21, **2003**.
54. "X1 and X2" Keystone Symposia, "Twenty Years of HIV Research" and "HIV Vaccine Development". Banff, Calgary, March 29-April 4, **2003**.
55. Second Immunology Meeting for Graduate Students, North East Region. Cornell University, Ithaca, NY, September 28-29, **2002**.
56. International meeting of the Institute of Human Virology, Baltimore, MD September 9-13, **2002**.
57. 7th European Conference on Experimental AIDS Research (ECEAR), Genoa, Italy (June 8-12, **2002**).
58. 8th National Symposium: Basic Aspects of Vaccines sponsored by the Walter Reed Army Institute of Research, Bethesda, Maryland (May 1-3, **2002**).

59. T lymphocyte activation, differentiation and death, Keystone Meetings, Colorado, January 16-22, **2002**).
60. International meeting of the Institute of Human Virology, Baltimore, MD September 9-13, **2001**.
61. Graduate Students' Research Day, University of Maryland (Baltimore, MD), April **2001**.
62. 11th Annual Symposium in molecular and cell biology (Perspectives in biomedical sciences), University of Maryland, Baltimore. April 5, **2001**.
63. International meeting of the Institute of Human Virology, Baltimore, MD September 10-15, **2000**.
64. International meeting of the Institute of Human Virology, Baltimore, MD September 10-14, **1999**.
65. 9th Annual Symposium in molecular and cell biology (Perspectives in cellular machines), University of Maryland, Baltimore. March 30, **1999**.
66. 5th International Conference of Microbiology Hosted by the Egyptian Society of Medical Microbiology and organized by the department of Microbiology and Immunology, Cairo University. Cairo, Egypt, November 27-29, **1996**.
67. 9th training workshop and 9th Afro-Arab Conference on liver and biliary diseases. 6-13 February **1993**. Cairo International Conference Center, Egypt.

Ongoing Supervision of Theses/Dissertation: None

Completed Supervised MSc Theses:

1. Possible virus-host interactions that may predict the progression of Hepatitis C Virus infection in subjects infected with genotype 4. An MSc thesis by **Mariam Mahrous Fawzy**, Minia Faculty of Pharmacy, 2014-2017.
2. Prevalence of *Enterococcus faecalis* in patients with urinary tract infections: An MSc thesis by Mohammed Zein Al-Abedeem Abdelkareem, Minia Faculty of Medicine, 2012-2015.
3. Detection of occult hepatitis B virus infection among frequently blood transfused children: An MSc thesis by Walaa Ahmed Aboelhassan, Minia Faculty of Medicine, 2012-2014.
4. Evaluation of the Role of Hepatitis C Virus Core Antigen as a Marker for Hepatitis C Virus Infection. An MSc thesis by Dalia N. Kotb, Minia Faculty of Medicine, 2012-2014.
5. Multi-Drug Resistant Shigella Isolates in Cases of Gastroenteritis at Minia Governorate; an MSc thesis by Ghada Mohamed Abd-Elmeged, Minia Faculty of Medicine, 2011-2014.
6. Evaluation of the adhesion of *S. mutans* and Lactobacilli to different orthodontic brackets with respect to the method of ligature An MSc thesis by Ahmed Ismail Minia Faculty of Dentistry, 2012-2013.
7. Impact of past infection with Schistosomiasis on the outcome of current HCV infection in coinfecting Egyptian patients, an MSc thesis by Walaa Ramadan Allam, Ain Shams Faculty of Science, 2010-2013.
8. Prevalence of methicillin-resistant Staphylococci in wound infection in Minia University Hospital. Microbiology and Immunology Master Thesis by Eman Farouk, Minia Faculty of Pharmacy, 2007-2013.
9. A study of the effects of volatile oils on fungal keratitis, an MSc Thesis by Heba Ali Ahmed, Minia Faculty of Pharmacy, 2009-2013.
10. Quinolone Resistance among Salmonella Species Isolated from Typhoid Patients at Minia Governorate; an MSc thesis by Fatma Omar Ismail, Minia Faculty of Medicine, 2011- 2013.

11. The effect of topical application of human milk compared with 70% ethyl alcohol on cord separation time among newborn infants at Minia University Hospital. An MSc Thesis by Ibtisam Salah, Cairo Faculty of Nursing, 2009-2010.
12. Hepatitis B virus genotyping among blood donors in Minia Governorate and its correlation with HBeAg. Microbiology and Immunology Master Thesis by Febee Eshak Habil, Minia Faculty of Medicine, 2006-2009.
13. Prevalence and detection of *H. pylori* by ELISA versus invasive methods in upper GIT troubles. Tropical Medicine Master Thesis by Al-Shaymaa Ahmed M. Hassanain, Minia Faculty of Medicine, 2006-2008.
14. Clinico-bacteriologic study of neonatal sepsis in NICU in Minia University Hospital. Master Thesis of Pediatrics by Soumaia Mohammed Abou El-Hamd El-Hagagy, Minia Faculty of Medicine, 2005-2007.
15. Comparative study of the effect of some adjuvants on the immune responses of mice against potential protein vaccines. Microbiology and Immunology Master Thesis by Rabab Mohamed Kamal Mohamed, Minia Faculty of Medicine, 2005-2007.
16. Studies on *Trichomonas vaginalis* in females in El-Minia Governorate. Parasitology Master Thesis by Amany Mohamed Kamal Ahmed, Minia Faculty of Medicine, 2004-2006

Completed Supervised Dissertation:

1. Association of Toll-like receptor (TLR) 3 & 9 genes' polymorphism with Hepatitis C virus infection outcome among health care workers at high risk of infection. Zoology PhD Dissertation by **Shimaa Hamdy Mohamed**, Cairo Faculty of Science, 2007-2017.
2. Interleukin-10 and Interleukin-18 gene polymorphism and response to combination therapy in hepatitis C patients. An MD Thesis by Wedad M. Abdelrehim, Minia Faculty of Medicine, 2013-2015.
3. Occult hepatitis C virus infection in hemodialysis patients at Minia Governorate; MD Dissertation by Soha Sameh Abdel-Rehim, Minia Faculty of Medicine, 2011-2015.
4. Evaluation of Antigen-Specific Responses against genotype 1b and 4a Antigens among Egyptian Patients Infected with Hepatitis C Virus, A PhD Dissertation by Iman Fathy Galal, Cairo Faculty of Science, 2010-2014.
5. Evaluation of cell mediated immune response against Hepatitis C peptide antigens among Egyptian Health care workers. A PhD Dissertation by Zainab Zakaria Ali, Cairo Faculty of Science, 2010-2014.
6. A study of multi-drug resistant *Acinetobacter baumannii* isolated from Minia university hospital patients and environment. Microbiology PhD Dissertation by Doaa Safwat, Bani Swaif Faculty of Pharmacy, 2008-2012.
7. Preoperative diagnosis of allergic fungal sinusitis. E.N.T. MD Dissertation by Marwa Abdel-Hafeez Rashed, Minia Faculty of Medicine, 2008-2012.

Cancelled Theses/Dissertations:

1. Evaluation of Interleukin 28B Polymorphism as a predictor for response to pegylated interferon therapy in patients with chronic hepatitis C genotype IV. An MD dissertation by **Ahmed M. Fathallah**, Banha University, Faculty of Medicine, 2012-Cancelled 2015.
2. Early life environmental risk factors as predictors of severity in asthmatic children, the difference between rural and urban environment, A MD Dissertation by **Maha Saad Eldeen Salama**, Ain Shams Institute of Environmental Studies and Research, 2009- Cancelled 2014.

3. HCV specific cell-mediated immune responses in blood from subjects with and without *Schistosoma haematobium* infection. An MSc thesis by **Mostafa Mohamed**, Cairo Faculty of Science, 2009- Cancelled 2014.

Theses/Dissertations refereeing:

1. Wedad M. Abdelrehim, March 2015. An MD Thesis, Minia Faculty of Medicine.
2. Mohammed Zein Al-Abedeem Abdelkareem, March 2015. An MSc thesis, Minia Faculty of Medicine.
3. Ehsan Mohamed Wagih, MSc, 2014, Assuit Faculty of Medicine, Assuit University
4. Omnia Saber Mazhar, MSc, 2014, Minia Faculty of Medicine, Minia University
5. Dalia N. Kotb, MSc, 2014, Minia Faculty of Medicine, Minia University
6. Ghada Mohamed Abd-Elmeged, MSc, 2014, Minia Faculty of Medicine, Minia University
7. Walaa Ramadan Kamal, MSc, 2013, Ain Shams Faculty of Science, Ain Shams University
8. Eman Farouk, MSc, 2013, Minia Faculty of Pharmacy, Minia University
9. Heba Ali Ahmed, MSc, 2013, Minia Faculty of Pharmacy, Minia University
10. Fatma Omar Ismail, MSc, 2013, Minia Faculty of Medicine, Minia University
11. Doaa Safwat, PhD, 2012, Bani Suef Faculty of Pharmacy, Bani Suef University
12. Ibtisam Salah, MSc, 2012, Cairo Faculty of Nursing, Cairo University
13. Wedad Mahmoud Abdel-Reheim, MSc, 2012, Minia Faculty of Medicine, Minia University

Special awards:

1. Recipient: Second best poster presentation, International Conference of Virology (VIROCON 2020), Indian Virological Society, **2020**.
2. Recipient: Minia University International Publication Award, Minia University, **2020**.
3. Recipient: Minia University International Publication Award, Minia University, **2019**.
4. Recipient: Minia University International Publication Award, Minia University, **2018**.
5. Recipient: Minia University International Publication Award, Minia University, **2017**.
6. Recipient: Minia University International Publication Award, Minia University, **2016**.
7. Awarded a scholarship to attend the 17th International meeting of the Institute of Human Virology (Baltimore, MD, September 27-30), IHV **2015**.
8. Recipient: Minia University International Publication Award, Minia University, **2015**.
9. Recipient: Minia University International Publication Award, Minia University, **2014**.
10. Recipient: Minia University International Publication Award (3rd highest publications impact factor for 2012), Minia University, **2013**.
11. Recipient: International Labor Organization (ILO) Scholarship to attend a workshop and forum on social entrepreneurship and social corporate responsibility, conducted at George Washington University School of Business, Washington DC, October 11th-15th, **2012**.
12. Recipient: Minia University Incentive Award in Life Sciences, Minia University, **2012** (7,000LE).
13. Recipient: Minia University International Publication Award, Minia University, **2012**.
14. Recipient: State Incentive Award in Medical Sciences for 2007 (50,000LE), Egyptian Academy for Scientific research and Technology, Ministry of Higher Education, announced June **2008**.
15. Honor from the Faculty of Medicine at the 19th Graduation day for **2007** medical graduates, Minia Faculty of Medicine.
16. Awarded a Scholarship to attend the 10th International meeting of the Institute of Human Virology (Baltimore, MD, November 17-21, **2006**).

17. Awarded a certificate of Ideal Teacher (Minia Faculty of Medicine, below 15 years of service) and Honored by the Egyptian Medical Syndicate (March 18th, **2006**).
18. Awarded a Scholarship to attend annual meeting of the Institute of Human Virology, Baltimore, Maryland (October 31-November 4th, **2004**).
19. Awarded a Scholarship for attending the 7th European Conference on Experimental AIDS Research (ECEAR), Genoa, Italy (June 8-12, **2002**). This scholarship was awarded by the Office of AIDS Research at the National Institute of Health.
20. Awarded a Scholarship for attending the 8th National Symposium: Basic Aspects of Vaccines sponsored by the Walter Reed Army Institute of Research, Bethesda, Maryland (May 1-3, **2002**). This scholarship was awarded by the Office of AIDS Research at the National Institute of Health.
21. Awarded Scholarship from the Egyptian Government in **1997** to obtain a Ph.D. degree from the United States of America. Scholarship covers tuition, fees, travel, health insurance, and living allowance for 4-5 years.
22. Awarded the Ideal Student prize, Assuit University, Egypt, **1989**.

Training Activities as a Trainer:

SN	Topic	Code	Targeted trainees	Organizer	Place	Dates
1	International publishing of research	R1	Minia University Staff	Minia University Faculty Leadership Development Center (FLDC)	Minia University	1. June 2-3, 2014 2. Dec 2-3, 2013 3. August 5, 2013 4. Nov.5, 2012 5. Sept.10-11, 2012 6. May 20, 2012 7. May 29-30, 2011 8. Dec. 21, 2010 9. July 12, 2010 10. May 31, 2010 11. July 19, 2009
2	Research team management	R2	Minia University Staff	Minia University FLDC	Minia University	1. Jan 5-6, 2013 2. July 29, 2013 3. March 4, 2013 4. April 29, 2012 5. Feb. 19-20, 2012 6. April 17-18, 2011 7. Sept. 20, 2010 8. Jan.25, 2009
3	Competitive research projects	R3	Minia University Staff	Minia University FLDC	Minia University	1. Dec 16-17, 2013 2. Sept 16, 2013 3. June 17, 2013 4. Dec. 12-13, 2010 5. August 12-14, 2008
4	The Credit Hour System	T2	Minia University Staff	Minia University FLDC	Minia University	1. Feb 11, 2013 2. August 7-8, 2011 3. June 5, 2010
5	Strategic Planning	L1	Minia University Staff	Minia University FLDC	Minia University	1. Feb 12-13, 2014 2. December 11, 2011
6	Program Design	T5	Minia University Staff	Minia University FLDC	Minia University	1. Sept.17, 2012

7	Know about Business	KAB	Minia Educational Directorate Staff	Pathways to Higher Education (PHE) project and International Labor Organization (ILO)	Minia University	1.Sept 16 th , 2012
8	Know about Business	KAB	Minia University Students	PHE and ILO	Minia University	1.Feb 6, 2014 2.July 2 nd -4 th , 2012 3.Feb 2 nd -4 th , 2013.
9	Wellness Guidelines	Knowledge training	Minia University Students	PHE	Minia University	1. July, 2011 2. Feb 6-8 th , 2010 3. June 28-30, 2009 4. June 28-30, 2008
10	Problem solving and decision making	Managerial training	Secondary school teachers of Minia Governorate	PHE	Minia University	1. Jan 29-31, 2008 2. July 15 th -25 th , 2007
11	Planning and Controlling	Managerial training	Minia University Students	PHE	Minia University	1. July 17 th -21 st , 2007 2. Jan 29-Feb 8, 2007
12	Infection control topics	Not applicable	Physicians, dentists and nurses of Minia University Hospital and other hospitals in Minia Governorate	Infection control project supported by HEEPF	Minia University Hospital	August 2005-Jan. 2007 (11 training workshops)
13	Flow cytometry workshop	Not applicable	Egyptian Microbiologists	13 th annual meeting of the Egyptian Society for Medical Microbiology	Ain Shams University Hospital	1.April 2 nd - 3 rd , 2005.
14	Know about Business	KAB TOT	13 Minia University Staff members	ILO and MUEC	Minia University	1.May 26 th , June 9 th 2013
15	Principles of Education Quality Management for Higher Education Institutions	T4	Minia University Staff	Minia University FLDC	Minia University	1. July, 2015 2. July, 2016
16	Best Practice Scientific Writing and publishing	--	Microbiology staff members in Egypt	American Society for Microbiology	Egyptian Universities	1. Deraya Univ 4/2018 2. Minia Univ 7/2018 3. BeniSuef Univ 7/2018 4. Assuit Univ 7/2018 5. Fayoum Univ 7/2018 6. Sohag Univ 7/2018 7. Minia Univ 8/2018 8. Azhar Univ 4/2019 9. Azhar Univ 4/2019 10.Ain Shams Univ 7/2019 11.Menoufia Univ 7/2019 12.Deraya Univ 1/2020 13.Heliopolis Univ 1/2020
17	Research Funding Opportunities	--	Taif University Staff	College of Medicine	Taif University	1. 7/4/2021
18	How to write a successful research proposal?	--	Taif University Staff	College of Medicine	Taif University	1. 8/4/2021

19	Vitamin D awareness	--	High school students	Taif University	Taif University	1. 4/2020
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Special Training and Workshops Attended:

1. JoVe Bringing text to life online workshop, Taif University, November 3rd, 2021.
2. Assignments and plagiarism detection online workshop, Taif University, October 4th, 2021.
3. Best Practice Scientific Writing online workshop, College of Pharmacy, Taif University, March 31st, 2021.
4. Preparation of course file in the COVID era workshop, Taif University, December 7th, 2020.
5. Immunization during pregnancy Saudi Vaccination Society workshop, November 27th, 2020.
6. Documentation in Scientific Research, Taif University, November 10th, 2020.
7. Development of Research skills, Taif University, November 3rd, 2020.
8. Course report preparation workshop, Taif University, May 12th, 2020.
9. Online exams using the black board, Taif University, April 14th, 2020.
10. Management of research team workshop, Taif University, March 1st, 2020.
11. Black board basic workshop, Taif University, Jan 13th-15th, 2019.
12. Program transformation workshop, Taif University, Feb 14th, 2017.
13. Lab safety, Taif University, College of Pharmacy, December 2nd, 2015.
14. Application of citation manager software "ENDNOTE", Taif University, College of Pharmacy, March 5th, 2015.
15. Statistical analysis using SPSS, Taif University, College of Pharmacy, November 23rd, 2014.
16. Hepacutic project workshop on advances in immunological techniques, University of Parma, Italy, Jan 15-16, 2014.
17. Workshop for *National Key Facilitators* on entrepreneurship, conducted by the International Labor Organization (ILO), March 24th- 28th, 2013, Pyramisa Hotel, Cairo.
18. Workshop and forum on *social entrepreneurship and corporate social responsibility*, conducted at George Washington University School of Business, Washington DC, October 11th- 15th, 2012.
19. Workshop on *Effective Presentation Skills (C2)*, Minia University, supported by the Faculty Leadership Development Project (FLDP), 9-10 August, 2012.
20. Workshop on *Use of technology in Education (T1)*, Minia University, supported by the Faculty Leadership Development Project (FLDP), 9-10 August, 2012.
21. Workshop on *Training of trainers (TOT)* workshop, conducted at Minia University by the International Labor Organization (ILO), Egypt, May 26th- June 11th, 2012.
22. Hepacutic project workshop on advances in molecular techniques, Institute Pasteur, Casablanca, Morocco, Nov 25-27, 2011.
23. Workshop on *Training of trainers (TOT)* workshop, conducted at Cairo University by the Faculty Leadership Development Project (FLDP), Ministry of Higher Education, May 8th- 17th, 2011 (*supplementary program*).
24. Participated in The Global Voices for Maternal Health Survey, University of Oxford and Global Voices, October 11th, 2010.
25. Workshop on *Organization of Scientific Meetings (C3)*, Minia University, supported by the Faculty Leadership Development Project (FLDP), 9-10 June, 2010.
26. Workshop on *Credit Hour System of Education (T2)*, Minia University, supported by the Faculty Leadership Development Project (FLDP), 7-8 June, 2010.
27. Workshop on *Strategic Planning (L1)*, Minia University, supported by the Faculty Leadership Development Project (FLDP), 2-3 May, 2010.

28. Blood-borne pathogen proficiency test Internet based test), September 25th, 2009.
29. Workshop on *Ethics of use of human subjects in medical research and biosafety in research laboratories* conducted by Egyptian Association of Immunologists and Misr International University (MIU) in conjunction with the 12th annual meeting of the Egyptian Association of Immunologists, Ein El-Sokhna, Egypt, November 26-28, 2008.
30. The collaborative *IRB Training Initiative (CITI)* Program on Internet-based training course on the protection of Human research subjects, September 8th, 2008.
31. Workshop on *Competitive Local and International Research Projects (R3)*, Minia University, supported by the Faculty Leadership Development Project (FLDP), 12-14 August, 2008.
32. *Training of trainers (TOT)* workshop, conducted at Cairo University by the Faculty Leadership Development Project (FLDP), Ministry of Higher Education, October 16-21, 2007 (*preparatory program*).
33. The collaborative IRB Training Initiative (*CITI*) Program on Internet-based training course on the *protection of Human research subjects*, August 30th, 2007.
34. *Training of trainers program (TOT)*, conducted by the Pathway to Higher Education (PHE) project at Minia University, December 23-27, 2006.
35. *Quality Assurance and Accreditation (T4)* workshop, an activity of the Faculty and Leadership Development project (FLDP), Minia University, May 3-4, 2006.
36. *Legal and Financial Affairs (L4)* workshop, an activity of the Faculty and Leadership Development project (FLDP), Minia University, April 26-27, 2006.
37. *Time Management and work stress (P3)* workshop, an activity of the Faculty and Leadership Development project (FLDP), Minia University, December 19-21, 2005.
38. *Effective Communication skill development (I2)* workshop, an activity of the Faculty and Leadership Development project (FLDP), Minia University, December 19-21, 2005.
39. *Professional and occupational ethics training (P4)* workshop, an activity of the Faculty and Leadership Development project (FLDP), Minia University, August 22-24, 2005.
40. Attended the first workshop from stage two of the WHO (EMRO Office) project for *accreditation of Professional Health Education Institutes in Egypt*, Ismailia December 23-24, 2004.
41. Second workshop on *Development of Medical Education*, Minia Faculty of Medicine, May 16-18, 2004.
42. *Training to work in Biosafety Level III (BSL-3)* facilities conducted at the Institute of Human Virology, Baltimore, Maryland, July 2002.
43. *IATA/DOT Infectious Substances and Diagnostic Specimens Shipping Certification* conducted by the Department of Environmental Health and Safety at the University of Maryland Baltimore on October 2001.
44. *Good Laboratory Practice* training conducted by SciReg Inc (Woodbridge, VA) at the Institute of Human Virology on May 2001.
45. *Radiation Safety* conducted by the Department of Environmental Health and Safety at the University of Maryland Baltimore on August 1997.
46. *Chemical and hazardous waste training* conducted by the Department of Environmental Health and Safety at the University of Maryland, Baltimore in August 1999.
47. *Blood borne pathogens training* conducted by the Department of Environmental Health and Safety at the University of Maryland, Baltimore in 1999.
48. Workshop for *PCR and Electrophoresis* held on December 25-27, 1995 at the Microbiology and Immunology Department, Benha University, Benha, Egypt.

Teaching activities:

1. Teaching Practical General Microbiology and Parasitology for pharmacy students, 2021-present, Taif University College of Pharmacy, KSA.
2. Teaching Medical Biology-1 for First year pharmacy students, 2017-present, Taif University College of Pharmacy, KSA.
3. Teaching Biostatistics for pharmacy students, 2016-2017, Taif University College of Pharmacy, KSA.
4. Teaching Pharmaceutical Biotechnology for pharmacy students, 2017-present, Taif University College of Pharmacy, KSA.
5. Teaching General Microbiology and Parasitology for pharmacy students, 2014-present, Taif University College of Pharmacy, KSA.
6. Teaching Research Projects for pharmacy students, 2014-present, Taif University College of Pharmacy, KSA.
7. Teaching Pharmaceutical Microbiology for pharmacy students, 2014-present, Taif University College of Pharmacy, KSA.
8. Teaching Clinical Microbiology for pharmacy students, 2014-present, Taif University College of Pharmacy, KSA.
9. Teaching Clinical Immunology for pharmacy students, 2014-present, Taif University College of Pharmacy, KSA.
10. Teaching Medical Microbiology and immunology for third year medical students, 2004-2014, Minia University, Egypt.
11. Teaching immunology, virology, mycology and applied microbiology for postgraduate medical students (Microbiology and Immunology graduates), 2004-2014, Minia University, Egypt.
12. Teaching immunology, virology, mycology and applied microbiology for postgraduate medical students (Medical graduates with different specialties), 2004-2014, Minia University, Egypt.
13. Teaching medical microbiology and immunology for second year dental students, 2004-2014, Minia University, Egypt.
14. Teaching pharmaceutical and medical microbiology and immunology for second year pharmacy students, 2007-2010, Minia University, Egypt.
15. Teaching medical microbiology and immunology for first year nursing students, 2005-2014, Minia University, Egypt.
16. Sharing writing of written exams, grading them and supervising practical exams for medical, dental and nursing students, 2004-2014.
17. Teaching practical virology for medical students, Dept of Microbiology and Immunology, University of Maryland, Baltimore, MD, USA, 2003.
18. Teaching practical Microbiology and Immunology for medical students, 1991-1997, Minia University, Egypt.
19. Teaching practical Pharmacognosy for pharmacy students, 1989-1991, Assuit University, Egypt.
20. External examiner for undergraduate pharmacy students at Assuit, Minia, Bani Suef, Cairo, Helwan, Zagazig and Al-Azhar universities.
21. Sharing the Exam controls for second year and 6th year (cumulative control) medical students from 2004-2011.

Membership in Professional Organizations:

1. Member of the Membership Review Committee and Coordinator of the Egyptian Sector of the World Society of Virology, 2017-present.
2. Examiner at the Egyptian Promotion Committee for Medical Microbiology and Immunology Associate Professors and Professors, 2016-2019.
3. European Association for the Study of the Liver (EASL), 2011-present
4. American Association of Immunologists (AAI), 2010-present
5. International Union of Immunological Societies (IUIS), 2010-present
6. Federation of American Societies for Experimental Biology (FASEB), 2010-present
7. Egyptian Association of Immunologists (EAI), 2005-present
8. Director, Minia Faculty of Medicine Scientific group 2008-2009.
9. Egyptian Society for Virology (ESV), 2005-present
10. Egyptian Society for Medical Microbiology (ESMM), 2005-present
11. American Society for Leukocyte Biology, 2002-present
12. American Society for Microbiology (ASM), 2001-present
13. Egyptian Syndicate of Pharmacists, 1989-present

Ad Hoc Peer Review Activities:

1. Reviewer, *Scandinavian Journal of Gastroenterology*, 2021-present
2. Reviewer, *Risk Management and Healthcare Policy*, 2021-present
3. Reviewer, *Journal of Pharmacy and Pharmacology*, 2021-present
4. Technical consultant on application of whole genome sequencing for national, regional and global AMR surveillance, **WHO**, Switzerland, 21-23 January 2020
5. Reviewer, *Frontiers in Microbiology*, 2020-present
6. Reviewer, *Immunological Investigations*, 2020-present
7. Reviewer, *SAGE Infectious Diseases: Research and Treatment*, 2020-present
8. Reviewer, *Respiratory Research*, 2019-present
9. Reviewer, Transactions of the Royal Society for Tropical Medicine and Hygiene (TRSTMH), 2019-present
10. Reviewer, *KACST projects*, 2018-present
11. Reviewer, *Beni-Suef Journal of Basic and Applied Science* (BJBAS), 2018-present
12. Reviewer, *Journal of Medical Microbiology* (JMM), 2018-present
13. Reviewer, *National Research foundation* (NRF) SOUTH AFRICA, 2018-present
14. Reviewer, *Current Molecular Medicine*, 2018-present
15. Reviewer, *Journal of Global Antimicrobial Resistance* (JGAR), 2017-present
16. Reviewer, *American Journal of Tropical Medicine and Hygiene* (AJTMH), 2016-present
17. Reviewer, *Egyptian J Microbiology*, 2016-present
18. Reviewer, *Journal of International Medical Research* (JIMR), 2016-present
19. Reviewer, *Viral Immunology* (VIM), 2016-present
20. Reviewer, *International Journal of Health Sciences*, 2015-present
21. Reviewer, *Infectious Agents and Cancer* (IAAC), 2015-present
22. Reviewer, *Journal of Translational Medicine*, 2015-present
23. Reviewer, *Indian Journal of Medical Research* (IJMR), 2015-present
24. Reviewer, *Expert Review of Gastroenterology & Hepatology*, 2015-present
25. Reviewer, *Archives of Virology*, 2015-present
26. Reviewer, *International Journal of Health Science*, 2015-present
27. Grant Reviewer, *The Belgian Research Foundation Flanders* (Fonds Wetenschappelijk Onderzoek-Vlaanderen, FWO), 2014-present.

28. Reviewer, *Eastern Mediterranean Health Journal* (EMHJ), 2014-present
29. Reviewer, *Burns and Trauma*, 2014-present
30. Reviewer, *Human Immunology* (HI), 2014-present
31. Reviewer, *Public Library of Science-1* (PLoS-1), 2014-present
32. Reviewer, *Biomed Research International* (BRI), 2014-present
33. Reviewer, *Journal of Medical Virology* (JMV), 2013-present
34. Reviewer, *British Microbiology Journal Open* (BMJ Open), 2013-present
35. Reviewer, *Jordan Journal of Biological Sciences* (JJBS), 2013-present
36. Reviewer, *Journal of Biomedical Sciences* (JBMS), 2012-present
37. Reviewer, *BMC Infectious Diseases*, 2012-present
38. Editorial board member, *Journal of Advances in Medicine*, 2012-present
39. Editorial board member, *Journal of Gastroenterology and Hepatology Research*, 2011-present
40. Reviewer, *Journal of Gastroenterology and Hepatology Research*, 2011-present
41. Reviewer, *Translational Biomedicine*, 2011-present
42. Reviewer, *Journal of Biomedical Sciences* (JBMS), 2011-present
43. Reviewer, *Bibliothica Alexandria research grants*, 2010-present
44. Reviewer, *Annals of Surgical Oncology*, 2009-present
45. Reviewer, *Scientific Research and Essays* (SRE), 2009-present
46. Reviewer, *Journal of Antimicrobial Chemotherapy* (JAC), 2007-present
47. Reviewer, *Journal of Leukocyte Biology* (JLB), 2004-present

Licensure:

1. Egyptian Pharmacist licensure, General Syndicate of Pharmacists, Egypt, **1989-present**
2. Egyptian Medical laboratory Licensure, Ministry of Health, Egypt, **1993-present**

Meetings and Conferences Organization Activities:

1. Hepacutec project consortium kick-off meeting, SemirAmis Hotel, Giza, Egypt, Nov. 9-10, 2010.
2. Hepacivac project consortium meeting, Vacsera, Giza, Egypt, Jan 15-16, 2009.
3. Organized a workshop on Research Ethics conducted at Minia University by Prof. Henry Silverman (Prof. at University of Maryland, Baltimore) on January 24th, 2007.
4. The Scientific activities of Minia Faculty of Medicine Scientific Group, 2005-2007.
5. 19th Graduation Ceremony of Minia University Faculty of Medicine, April 2009.
6. 17th Graduation Ceremony of Minia University Faculty of Medicine, April 2007.
7. 16th Graduation Ceremony of Minia University Faculty of Medicine, April 2006.
8. 15th Graduation Ceremony of Minia University Faculty of Medicine, April 2005.
9. Flow cytometry training workshop on April 2-3, 2005 in conjunction with the 13th annual meeting of the Egyptian Society of Microbiology, Cairo, March 31-April 1st, 2005.

Patent applications:

1. Novel drug for treatment of fungal keratitis, Egyptian Ministry Scientific research, Academy of Scientific Research, Application # 1004/2013

Ph.D. Dissertation Committee:

1. George K. Lewis, Ph.D. (Chair), Institute of Human Virology, University of Maryland, Baltimore, MD 21201, USA.

2. Anthony DeVico, Ph.D. Institute of Human Virology, University of Maryland, Baltimore, MD 21201, USA.
3. Mario Roederer, Ph.D. Vaccine Research Center, National Institutes of Health, Bethesda, MD 20892, USA
4. Roberta Kamin-Lewis, Ph.D. Institute of Human Virology, University of Maryland, Baltimore, MD 21201, USA.
5. Donna Farber, Ph.D. Department of Microbiology and Immunology, University of Maryland, Baltimore, MD 21201, USA.