

<b>Curriculum Vitae</b>	
<b>Name</b>	: Tarek Mohamed Kamal Motawi
<b>Nationality</b>	: Egyptian
<b>Date of Birth</b>	: 6/3/1955
<b>Place of Birth</b>	: Egypt
<b>Current Occupation</b>	: Professor of Biochemistry, Faculty of Pharmacy, Cairo University
<b>Address</b>	:
<b>Office Address</b>	: Building no. (A), 3 <sup>rd</sup> floor
<b>E-Mail</b>	: <a href="mailto:tarekmotawi@gmail.com">tarekmotawi@gmail.com</a> <a href="mailto:tarek.motawi@pharma.cu.edu.eg">tarek.motawi@pharma.cu.edu.eg</a>
<b>Phone</b>	: Tel.: 23658095 Mob.: 0123138667
<b>Education</b>	:
1984	Ph.D. in Pharmaceutical Sciences – Biochemistry.
1979	M.Sc. in Pharmaceutical Sciences – Biochemistry.
1976	B.Sc. in Pharmaceutical Sciences, Faculty of Pharmacy, Cairo University.
<b>Professional experience:</b>	
	<ol style="list-style-type: none"> <li>1. Instructor in the Department of Biochemistry, Faculty of Pharmacy, Cairo University: 1976 – 1980.</li> <li>2. Lecturer Assistant in the Department of Biochemistry, Faculty of Pharmacy, Cairo University: 1980 – 1984.</li> <li>3. Lecturer in the Department of Biochemistry, Faculty of Pharmacy, Cairo University: 1984 – 1989.</li> <li>4. Assistant Professor of Biochemistry, Faculty of Pharmacy, Cairo University: 1989 – 1994.</li> <li>5. Professor of Biochemistry, Faculty of Pharmacy, Cairo University: 1994.</li> <li>6. Head of the Department of Biochemistry, Faculty of Pharmacy, Cairo University: from 20/1/2008 – 22/1/2014.</li> </ol>
<b>Publications</b>	: <ol style="list-style-type: none"> <li>1. Motawi TK, Shaker OG, Hassanin SO, Ibrahim SG, Senousy MA. Genetic and epigenetic control on clock genes in multiple sclerosis. J Genet Genomics. 2021 Aug 16:S1673-8527(21)00258-7. doi: 10.1016/j.jgg.2021.07.016. Epub ahead of print. PMID: 34411713.</li> </ol>

2. Motawi TMK, William MM, Nooh MM, Abd-Elgawad HM. Amelioration of cyclophosphamide toxicity via modulation of metabolizing enzymes by avocado (*Persea americana*) extract. *J Pharm Pharmacol*. 2021 Jun 26:rgab084. doi: 10.1093/jpp/rgab084. Epub ahead of print. PMID: 34173661.
3. Motawi TM, Zakhary NI, Darwish HA, Abdullah H, Tadros SA. Significance of Some Non-Invasive Biomarkers in the Early Diagnosis and Staging of Egyptian Breast Cancer Patients. *Asian Pac J Cancer Prev*. 2020;21(11):3279-3284. doi: 10.31557/APJCP.2020.21.11.3279. PMID: 33247685.
4. Motawi TK, Shahin NN, Awad K, Maghraby AS, Abd-Elshafy DN, Bahgat MM. Glycolytic and immunological alterations in human U937 monocytes in response to H1N1 infection. *IUBMB Life*. 2020;72(11):2481-2498. doi: 10.1002/iub.2378. PMID: 32941696.
5. Motawi TMK, Abdel-Nasser ZM, Shahin NN. Ameliorative Effect of Necrosulfonamide in a Rat Model of Alzheimer's Disease: Targeting Mixed Lineage Kinase Domain-like Protein-Mediated Necroptosis. *ACS Chem Neurosci*. 2020;11(20):3386-3397. doi: 10.1021/acscchemneuro.0c00516. PMID: 32936609.
6. Motawi TK, Shahin NN, Maghraby AS, Kirschfink M, Nadeem Abd-Elshafy D, Awad K, Bahgat MM. H1N1 Infection Reduces Glucose Level in Human U937 Monocytes Culture. *Viral Immunol*. 2020;33(5):384-390. doi: 10.1089/vim.2019.0163. PMID: 32202987.
7. Motawi TK, Sadik NAH, Hamed MA, Ali SA, Khalil WKB, Ahmed YR. Potential therapeutic effects of antagonizing adenosine A<sub>2A</sub> receptor, curcumin and niacin in rotenone-induced Parkinson's disease mice model. *Mol Cell Biochem*. 2020;465(1-2):89-102. doi: 10.1007/s11010-019-03670-0. PMID: 31820278.
8. Motawi TK, Ahmed SA, El-Boghdady NA, Metwally NS, Nasr NN. Impact of betanin against paracetamol and diclofenac induced hepato-renal damage in rats. *Biomarkers*. 2020;25(1):86-93. doi: 10.1080/1354750X.2019.1697365. PMID: 31766895.
9. Motawi TK, Ahmed SA, El-Boghdady NA, Metwally NS, Nasr NN. Protective effects of betanin against paracetamol and diclofenac induced neurotoxicity and endocrine disruption in rats. *Biomarkers*. 2019 Nov;24(7):645-651. doi: 10.1080/1354750X.2019.1642958. PMID: 31305161.
10. Motawi TK, Mady AE, Shaheen S, Elshenawy SZ, Talaat RM, Rizk SM. Genetic variation in microRNA-

100 (miR-100) rs1834306 T/C associated with Hepatitis B virus (HBV) infection: Correlation with expression level. *Infect Genet Evol.* 2019 Sep;73:444-449. doi: 10.1016/j.meegid.2019.06.009. PMID: 31176032.

11. Motawi TMK, Sadik NAH, Sabry D, Shahin NN, Fahim SA. rs2267531, a promoter SNP within glypican-3 gene in the X chromosome, is associated with hepatocellular carcinoma in Egyptians. *Sci Rep.* 2019 May 3;9(1):6868. doi: 10.1038/s41598-019-43376-3. PMID: 31053802; PMCID: PMC6499880.
12. Motawi TMK, El-Maraghy SA, Sabry D, Mehana NA. The expression of long non coding RNA genes is associated with expression with polymorphisms of HULC rs7763881 and MALAT1 rs619586 in hepatocellular carcinoma and HBV Egyptian patients. *J Cell Biochem.* 2019 Sep;120(9):14645-14656. doi: 10.1002/jcb.28726. PMID: 31009106.
13. Motawi TMK, Zakhary NI, Darwish HA, Abdalla HM, Tadros SA. Significance of Serum Survivin and -31G/C Gene Polymorphism in the Early Diagnosis of Breast Cancer in Egypt. *Clin Breast Cancer.* 2019 Apr;19(2):e276-e282. doi: 10.1016/j.clbc.2019.01.002. PMID: 30765238.
14. Motawi TK, El-Maraghy SA, Sharaf SA, Said SE. Association of *CARD10* rs6000782 and *TNF* rs1799724 variants with paediatric-onset autoimmune hepatitis. *J Adv Res.* 2018 Oct 20;15:103-110. doi: 10.1016/j.jare.2018.10.001. PMID: 30581618; PMCID: PMC6300463.
15. Motawi TMK, Sabry D, Maurice NW, Rizk SM. Role of mesenchymal stem cells exosomes derived microRNAs; miR-136, miR-494 and miR-495 in pre-eclampsia diagnosis and evaluation. *Arch Biochem Biophys.* 2018 Dec 1;659:13-21. doi: 10.1016/j.abb.2018.09.023. PMID: 30261165.
16. Motawi TK, Mohamed MR, Shahin NN, Ali MAM, Azzam MA. Time-course expression profile and diagnostic potential of a miRNA panel in exosomes and total serum in acute liver injury. *Int J Biochem Cell Biol.* 2018 Jul;100:11-21. doi: 10.1016/j.biocel.2018.05.002. PMID: 29738828.
17. Motawi TK, Darwish HA, Diab I, Helmy MW, Noureldin MH. Combinatorial strategy of epigenetic and hormonal therapies: A novel promising approach for treating advanced prostate cancer. *Life Sci.* 2018 Apr 1;198:71-78. doi: 10.1016/j.lfs.2018.02.019. PMID: 29455003.

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19. Motawi TK, Ahmed SA, A Hamed M, El-Maraghy SA, M Aziz W. Melatonin and/or rovatinex attenuate streptozotocin-induced diabetic renal injury in rats. *J Biomed Res.* 2019 Apr 22;33(2):113-121. doi: 10.7555/JBR.31.20160028. PMID: 29089475; PMCID: PMC6477174.
20. Motawi TMK, Mahdy SG, El-Sawalhi MM, Ali EN, El-Telbany RFA. Serum levels of chemerin, apelin, vaspin, and omentin-1 in obese type 2 diabetic Egyptian patients with coronary artery stenosis. *Can J Physiol Pharmacol.* 2018 Jan;96(1):38-44. doi: 10.1139/cjpp-2017-0272. PMID: 28957639.
21. Motawi TMK, Rizk SM, Maurice NW, Maged AM, Raslan AN, Sawaf AH. The role of gene polymorphisms and AMH level in prediction of poor ovarian response in Egyptian women undergoing IVF procedure. *J Assist Reprod Genet.* 2017 Dec;34(12):1659-1666. doi: 10.1007/s10815-017-1013-4. PMID: 28825151; PMCID: PMC5714814.
22. Motawi TK, El-Maraghy SA, ElMeshad AN, Nady OM, Hammam OA. Cromolyn chitosan nanoparticles as a novel protective approach for colorectal cancer. *Chem Biol Interact.* 2017 Sep 25;275:1-12. doi: 10.1016/j.cbi.2017.07.013. PMID: 28732690.
23. Motawi TK, Darwish HA, Hamed MA, El-Rigal NS, Aboul Naser AF. Coenzyme Q10 and niacin mitigate streptozotocin-induced diabetic encephalopathy in a rat model. *Metab Brain Dis.* 2017 Oct;32(5):1519-1527. doi: 10.1007/s11011-017-0037-x. PMID: 28560538.
24. Motawi TK, Darwish HA, Hamed MA, El-Rigal NS, Aboul Naser AF. Erratum to: A Therapeutic Insight of Niacin and Coenzyme Q10 against Diabetic Encephalopathy in Rats. *Mol Neurobiol.* 2017 Jul;54(5):3924. doi: 10.1007/s12035-017-0488-4. Erratum for: *Mol Neurobiol.* 2017 Apr;54(3):1601-1611. PMID: 28321767.
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26. Motawi TK, Shaker OG, Shahin NN, Ahmed NM. Angiotensin-converting enzyme insertion/deletion

- polymorphism association with obesity and some related disorders in Egyptian females: a case-control observational study. *Nutr Metab (Lond)*. 2016 Oct 12;13:68. doi: 10.1186/s12986-016-0127-5. PMID: 27777603; PMCID: PMC5062892.
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  30. Motawi TK, Darwish HA, Hamed MA, El-Rigal NS, Naser AF. A Therapeutic Insight of Niacin and Coenzyme Q10 Against Diabetic Encephalopathy in Rats. *Mol Neurobiol* 2016; PMID: 26867655.
  31. Motawi TM, Sadik NA, Shaker OG, Ghaleb MH. Elevated serum microRNA-122/222 levels are potential diagnostic biomarkers in Egyptian patients with chronic hepatitis C but not hepatic cancer. *Tumour Biol* 2016; PMID: 26812693.
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  34. Motawi T, Salman T, Shaker O, Abdelhamid A. Association of polymorphism in adiponectin (+45 T/G) and leptin (-2548 G/A) genes with type 2 diabetes mellitus in male Egyptians. *Arch Med Sci* 2015; 11(5):937-44, DOI: 10.5114/aoms.2015.54848.
  35. Motawi TM, El-Rehany MA, Rizk SM, Ramz. Genetic polymorphism of estrogen receptor alpha gene in Egyptian women with type II diabetes mellitus.

Meta Gene 2015; 6:36-41, DOI: 10.1016/j.mgene.2015.08.001.

36. Motawi TK, Shaker OG, El-Maraghy SA, Senousy MA. Serum MicroRNAs as Potential Biomarkers for Early Diagnosis of Hepatitis C Virus-Related Hepatocellular Carcinoma in Egyptian Patients. PLoS One 2015; 10(9):e0137706, DOI: 10.1371/journal.pone.0137706.
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42. Sabry D, Al-Ghoussein MA, Hamdy G, Abul-Fotouh A, Motawi T, El Kazaz AY, Eldemery A, Shaker M. Effect of vitamin D therapy on IL-6, visfatin and hyaluronic acid levels in chronic hepatitis C Egyptian patients. Ther Clin Risk Manag 2015; 11, 279-88, DOI: 10.2147/TCRM.S66763.
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46. Motawi TM, Bustanji Y, El-Maraghy S, Taha MO, Al-Ghusein MA. Evaluation of naproxen and cromolyn activities against cancer cells viability, proliferation, apoptosis, p53 and gene expression of survivin and caspase-3. J Enzyme Inhib Med Chem 2014; 29(2), 153-61, DOI: 10.3109/14756366.2012.762645.
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BMC Endoc Disord 2013; 13 (1): 32, DOI: 10.1186/1472-6823-13-32.

52. Motawi TK, El-Maraghy SA, Senousy MA. Angiotensin-Converting Enzyme Inhibition and Angiotensin AT1 Receptor Blockade Downregulate Angiotensin-Converting Enzyme Expression and Attenuate Renal Injury in Streptozotocin-Induced Diabetic Rats. *J Biochem Mol Toxicol* 2013; 27 (7): 378-87, DOI: 10.1002/jbt.21500.
53. Motawi TM, Bustanji Y, El-Maraghy SA, Taha MO, Al Ghussein MA. Naproxen and Cromolyn as New Glycogen Synthase Kinase 3 $\beta$  Inhibitors for Amelioration of Diabetes and Obesity: An Investigation by Docking Simulation and Subsequent In Vitro / In Vivo Biochemical Evaluation. *J Biochem Mol Toxicol* 2013; 27 (9): 425-36, DOI: 10.1002/jbt.21503.
54. Motawi TK, Shaker OG, Ismail MF, Sayed NH. Genetic variants associated with the progression of hepatocellular carcinoma in hepatitis C Egyptian patients. *Gene* 2013; 527: 516-20, DOI: 10.1016/j.gene.2013.06.053.
55. Eissa S, Motawi T, Badr S, Zaghlool A, Maher A. Evaluation of Urinary Human Telomerase Reverse Transcriptase mRNA and Scatter Factor Protein as Urine Markers for Diagnosis of Bladder Cancer. *Clin Lab* 2013; 59: 317-23.
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58. Abdel Aziz MT, Motawi T, Rezaq A, Mostafa T, Fouad HH, Ahmed HH, Rashed L, Sabry D, Senbel A, Al-Malki A, El-Shafiey R. Effects of a water-soluble Curcumin protein conjugate vs. Pure Curcumin in a Diabetic Model of Erectile Dysfunction. *J Sex Med* 2012; 9: 1815-33, DOI: 10.1111/j.1743-6109.2012.02741.x.
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Physiol Biochem 2012; 68(4), 529-539, DOI: 10.1007/s13105-012-0168-9.

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64. Motawi TK, Darwish HA, Abd El Tawab AM. Effects of Caffeic Acid Phenethyl Ester on Endotoxin-Induced Cardiac Stress in Rats: A Possible Mechanism of Prolactin. J Biochem Mol Toxicol 2011; 25 (2): 84-94, DOI: 10.1002/jbt.20362.
65. Motawi T, Shaker O, Taha M, Sedrak H, Nabil M. Endothelial Nitric Oxide Synthase and Angiotensinogen Gene Polymorphism in Coronary Artery Diseases in Egypt. Angiology 2011; 62 (2): 191-7, DOI: 10.1177/0003319710373094.
66. Role of rennin-angiotensin system blockers on kidney apoptosis in streptozotocin-induced diabetes in rats. Accepted in European journal of scientific research 2011; 58 (5).
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68. Effect of Glutamine on Cisplatin-Induced Nephrotoxicity and Antitumor Efficacy in Mice. The Egyptian Science Magazine 2009; 5: 19-26.
69. Motawi TM, Hashem RM, Rashed LA, El-Razek SM. Comparative study between the effect of the peroxisome proliferator activated receptor-alpha ligands fenofibrate and n-3 polyunsaturated fatty acids on activation of 5'-AMP-activated protein

- kinase- $\alpha_1$  in high-fat fed rats. *J Pharm Pharmacol* 2009; 61(10):1339-46, DOI: 10.1211/jpp/61.10.0010.
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74. Gene Expression of Maspin and Multi drug Resistance mRNAs in Egyptian Breast Cancer. *Biochemica Clinica* 2005; 29(1): 454-61.
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76. Effect of vanadyl sulfate on energy metabolism and lipid peroxidation in brain of diabetic rats: a possible modulating effect of quercetin. *Bull Egypt Soc Physiol Sci* 2003; 23(2): 182-200.
77. Study of Serum Metals and Lipid Profile in Patients with Acute Myocardial Infarction. *Journal of Islamic Academy of Sciences (ISSN)* 2001; 11: 5-12.
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79. Modulation of Hepatic Insufficiency by Vitamin A and Riboflavin in Rats. *The Egyptian Journal of Biochemistry (EJB)* 2000; 18(2): 201-11.
80. Diagnostic and Prognostic Value of Some Biochemical Markers In Breast Cancer. *The*

	<p>Egyptian Journal of Biochemistry (EJB) 2000; 18(2): 343-58.</p> <p>81. The primary effects of some human interleukins on the production of leukotrienes by calcium ionophore stimulated leukocytes. <i>Biochemistry and Molecular Biology International</i> 1997; 42(4): 817-24.</p> <p>82. Nicotine and stress: Effect on sex hormones and lipid profile in female rats. <i>Pharmacological Research</i> 1997; 35(3): 181-7, DOI: 10.1006/phrs.1996.0115.</p> <hr/>
<p><b>Activities</b></p>	<ol style="list-style-type: none"> <li>1. Teaching staff member in Biochemistry Department, Faculty of Pharmacy, Cairo University since 1976.</li> <li>2. Participating in teaching Biochemistry courses for Pharmacy undergraduate students, Faculty of Pharmacy, Cairo University.</li> <li>3. Participating in the establishment of the syllabuses (theoretical, practical and tutorial sessions) for Biochemistry-1 (701), Biochemistry-2 (702), Clinical Biochemistry and Molecular Biology (703) and Clinical Nutrition (704) courses.</li> <li>4. Coordinator of Biochemistry-1 and Biochemistry-2 courses.</li> <li>5. Participating in teaching and examinations for students of the Biochemical Analysis Diploma.</li> <li>6. Participating in teaching and examinations for master's students in Biochemistry.</li> <li>7. Participating in the establishment of the Department of Biochemistry, as well as in teaching Biochemistry courses for Pharmacy undergraduate students and postgraduate students in Faculty of Pharmacy, Ain Shams University.</li> <li>8. Participating in the establishment of the Department of Biochemistry, as well as in teaching Biochemistry courses for Pharmacy undergraduate students and postgraduate students in Faculty of Pharmacy, BeniSuef University.</li> <li>9. He was chosen as a supervisor and head of the Biochemistry Department at the Faculty of Pharmacy - Beni Suef University since its inception until now.</li> </ol>

10. Participating in teaching Biochemistry courses for Pharmacy undergraduate students in Faculty of Pharmacy, Nahda University.
11. Head of undergraduate examination control in Faculty of Pharmacy, Cairo University.
12. Participation in joint research in more than 30 scientific conferences in Pharmaceutical Sciences and Biochemistry locally and internationally.
13. Conducting joint research and registering for PhD and master's degrees in various fields and participating in their supervision.
14. Participating in development and upgrading of postgraduate curricula and courses (Master and Diploma) of Pharmaceutical Sciences (Biochemistry), Faculty of Pharmacy, Cairo University.
15. Participating in development and upgrading of undergraduate curricula and courses, Faculty of Pharmacy, Cairo University.
16. Member and Referee in Egyptian Universities Promotion Committees (Biochemistry and Pharmaceutical Chemistry) since 2002.
17. Evaluator of scientific degree equation for Supreme Council of Universities.
18. Evaluator of incentive and estimated awards, Zagazig, Helwan, BeniSuef, Alexandria and Ain Shams Universities.
19. External evaluator for the program of Bachelor of Pharmaceutical Sciences, Faculty of Pharmacy, Ain Shams University.
20. External evaluator for the postgraduate program of master's degree of Pharmaceutical Sciences (Biochemistry), Faculty of Pharmacy, Ain Shams University.
21. Supervisor and examiner for Master and PhD candidates in Pharmacy and Medicine Faculties.
22. Reviewer of many international journals.
23. Reviewer of Bulletin of Faculty of Pharmacy, Cairo University.
24. Reviewer of research projects, Faculty of Pharmacy, Cairo University.
25. Reviewer of annual conference abstracts, Faculty of Pharmacy, Cairo University.
26. Member of the National Committee for Biochemistry and Molecular Biology at the Academy of Scientific Research & Technology.
27. Member of the following scientific societies:
  1. Egyptian Pharmaceutical Society (board member).
  2. Egyptian Society of Biochemistry.

3. Egyptian Society of Clinical Chemistry
  4. Egyptian Society of Tumor Markers
28. He undertook a three-month scientific mission to the United States of America to train in modern technologies in Molecular Biology at the Medical Branch of the University of Texas at Galveston from July 15, 1999 to October 15, 1999.
29. Recently attended conferences:
1. The 2<sup>nd</sup> Arab Oncology Conference held in Marrakech, Morocco, March 1-3, 2007.
  2. The 2008 Conference of the Egyptian Society of Biochemistry and Molecular Biology.
  3. The 2008 Conference of the Egyptian Pharmaceutical Society.
  4. The 2008 Conference of the Egyptian Society of Clinical Chemistry.
  5. The 1<sup>st</sup> Malaysian-Egyptian Oncology Conference, May 1-2, 2010, Kuala Lumpur, Malaysia.
  6. The 15<sup>th</sup> Scientific Conference of the Scientific Society of the Faculties of Pharmacy in the Arab World and the 3<sup>rd</sup> Conference of the Faculty of Pharmacy at the University of Jordan 9-11/10/2012.
  7. The 4<sup>th</sup> International Conference of the Faculty of Pharmacy - Cairo University - April 2013.
  8. The International Stem Cell Conference 1-3 June 2014 - UK (London).
  9. Participation with a research entitled:  
“Effect of pegylated interferon- $\alpha$ 2a versus 5-fluorouracil on cancer stem cells in a rat model of hepatocellular carcinoma”  
  
At the 12<sup>th</sup> National Conference of the National Committee on Biochemistry and Molecular Biology entitled "The role of biochemistry and molecular biology in drug discovery and diagnosis of the disease" 15/03/2015-17/03/2015.
  10. The 6<sup>th</sup> Scientific Conference of the Faculty of Pharmacy, Cairo University - entitled: “2020 Vision for Pharmacy in Egypt” April 25-26, 2015.
  11. The 3<sup>rd</sup> International Conference entitled: “Predictive, Preventive and Personalized Medicine & Molecular Diagnostics”, September 1-3, 2015 – Spain.

	<p>12. The 6th International Scientific Conference of the Faculty of Pharmacy - Cairo University entitled "A Vision for the Future of Pharmacy in Egypt."</p> <p>13. The 7<sup>th</sup> Euro-Global Summit on "Toxicology and Applied Pharmacology" held on 24-26 October 2016 - Rome - Italy</p> <p>14. The 8th Scientific Conference of the Faculty of Pharmacy, Cairo University - entitled:  "Pharmacy in Egypt: Towards Better Health Care" held at the Faculty of Pharmacy - Cairo University on April 22, 2017.</p> <p>15. The 6th Euro-Global Conference on "Infectious Diseases" held on 7 - 9 September 2017 - Paris – France.</p> <p>16. The 9th Conference of the Faculty of Pharmacy - Cairo University entitled: "Towards an Egyptian Medicine by International Standards: National Priority" on April 25-26, 2018.</p> <p>17. The 10<sup>th</sup> Euro-Global Conference on "Infectious Diseases" held on 27-29 September 2018 - Rome - Italy.</p>
<b>Languages</b>	: <b>English – French</b>