

Curriculum Vitae	
Name	: Tarek Mohamed Kamal Motawi
Nationality	: Egyptian
Date of Birth	: 6/3/1955
Place of Birth	: Egypt
Current Occupation	: Professor of Biochemistry, Faculty of Pharmacy, Cairo University
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Education	:
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.
Professional experience:	
	<ol style="list-style-type: none"> 1. Instructor in the Department of Biochemistry, Faculty of Pharmacy, Cairo University: 1976 – 1980. 2. Lecturer Assistant in the Department of Biochemistry, Faculty of Pharmacy, Cairo University: 1980 – 1984. 3. Lecturer in the Department of Biochemistry, Faculty of Pharmacy, Cairo University: 1984 – 1989. 4. Assistant Professor of Biochemistry, Faculty of Pharmacy, Cairo University: 1989 – 1994. 5. Professor of Biochemistry, Faculty of Pharmacy, Cairo University: 1994. 6. Head of the Department of Biochemistry, Faculty of Pharmacy, Cairo University: from 20/1/2008 – 22/1/2014.
Publications :	<ol style="list-style-type: none"> 1. Motawi TK, El-Maraghy SA, Sabry D, Nady OM, Senousy MA. Cromolyn chitosan nanoparticles reverse the DNA methylation of RASSF1A and p16 genes and mitigate DNMT1 and METTL3 expression in breast cancer cell line and tumor xenograft model in mice. Chem Biol Interact. 2022 Aug 9;110094. doi: 10.1016/j.cbi.2022.110094. Epub

- ahead of print. PMID: 35961540.
2. Motawi TK, Al-Kady RH, Abdelraouf SM, Senousy MA. Empagliflozin alleviates endoplasmic reticulum stress and augments autophagy in rotenone-induced Parkinson's disease in rats: Targeting the GRP78/PERK/eIF2 α /CHOP pathway and miR-211-5p. *Chem Biol Interact.* 2022 Aug 1;362:110002. doi: 10.1016/j.cbi.2022.110002. Epub 2022 May 30. PMID: 35654124.
 3. Motawi TMK, Sadik NAH, Sabry D, Fahim SA, Shahin NN. rs62139665 polymorphism in the promoter region of EpCAM is associated with hepatitis C virus-related hepatocellular carcinoma risk in Egyptians. *Front Oncol.* 2022;11:754104. doi:10.3389/fonc.2021.754104
 4. Motawi TMK, Sabry D, Shehata NI, William MM, Fahim AT. Impact of FOXP1 rs2687201 genetic variant on the susceptibility to HCV-related hepatocellular carcinoma in Egyptians. *J Biochem Mol Toxicol.* 2021 Nov 16:e22965. doi: 10.1002/jbt.22965. Epub ahead of print. PMID: 34783112.
 5. 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.
 6. 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.
 7. 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.
 8. 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.
 9. 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.
10. 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.
 11. Motawi TK, Sadik NAH, Hamed MA, Ali SA, Khalil WKB, Ahmed YR. Potential therapeutic effects of antagonizing adenosine A2A 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.
 12. 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.
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 14. 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.
 15. 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.
 16. 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.
 17. 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.
18. 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.
19. 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.
20. 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.
21. 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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23. 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.
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26. 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.
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34. 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.
35. 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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- One 2015;10(5):e0126957, DOI: 10.1371/journal.pone.0126957.
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46. 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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48. Motawi TM, El- Sawalhi MM, Gabr H and Zakaria N. IN VITRO DIFFERENTIATION OF ADIPOSE AND BONE MARROW-DERIVED STEM CELLS INTO INSULIN-PRODUCING CELLS: A COMPARATIVE STUDY. International Journal of Recent Scientific Research 2014; 5 (9): 1578-84.
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- vitro study. *J Physiol Biochem* 2014; 70 (1): 225-237, DOI: 10.1007/s13105-013-0296-x.
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- Angiotensinogen Gene Polymorphism in Coronary Artery Diseases in Egypt. *Angiology* 2011; 62 (2): 191-7, DOI: 10.1177/0003319710373094.
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77. Protective Effect of Turmeric, Ginko biloba, Silymarin Separately or in combination, on Iron-Induced Oxidative Stress and Lipid Peroxidation in Rats. *International Journal of Pharmacology* 2007; 3(5): 375-84.
78. Gene Expression of Maspin and Multi drug Resistance mRNAs in Egyptian Breast Cancer. *Biochemica Clinica* 2005; 29(1): 454-61.
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	<p>antioxidants. <i>Biochem Biophys Res Commun</i> 2005; 336: 386-91, DOI:10.1016/j.bbrc.2005.07.201.</p> <p>80. Effect of vanadyl sulfate on energy metabolism and lipid peroxidation in brain of diabetic rats: a possible modulating effect of quercetin. <i>Bull Egypt Soc Physiol Sci</i> 2003; 23(2): 182-200.</p> <p>81. Study of Serum Metals and Lipid Profile in Patients with Acute Myocardial Infarction. <i>Journal of Islamic Academy of Sciences (ISSN)</i> 2001; 11: 5-12.</p> <p>82. Protective effect of vitamin E, β-carotene and N-acetylcysteine from the brain oxidative stress induced in rats by lipopolysaccharide. <i>The International Journal of Biochemistry and Cell Biology (IJBCB)</i> 2001; 33: 475-82, DOI:10.1016/S1357-2725(01)00032-2</p> <p>83. Modulation of Hepatic Insufficiency by Vitamin A and Riboflavin in Rats. <i>The Egyptian Journal of Biochemistry (EJB)</i> 2000; 18(2): 201-11.</p> <p>84. Diagnostic and Prognostic Value of Some Biochemical Markers In Breast Cancer. <i>The Egyptian Journal of Biochemistry (EJB)</i> 2000; 18(2): 343-58.</p> <p>85. 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>86. 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>Activities</p>	<ol style="list-style-type: none"> 1. Teaching staff member in Biochemistry Department, Faculty of Pharmacy, Cairo University since 1976. 2. Participating in teaching Biochemistry courses for Pharmacy undergraduate students, Faculty of Pharmacy, Cairo University. 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. 4. Coordinator of Biochemistry-1 and Biochemistry-2 courses.

5. Participating in teaching and examinations for students of the Biochemical Analysis Diploma.
6. Participating in teaching and examinations for master's students in Biochemistry.
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.
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.
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.
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 2nd 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 1st Malaysian-Egyptian Oncology Conference, May 1-2, 2010, Kuala Lumpur, Malaysia.
 6. The 15th Scientific Conference of the Scientific Society of the Faculties of Pharmacy in the Arab World and the 3rd Conference of the Faculty of Pharmacy at the University of Jordan 9-11/10/2012.
 7. The 4th International Conference of the Faculty of Pharmacy - Cairo University - April 2013.

	<p>8. The International Stem Cell Conference 1-3 June 2014 - UK (London).</p> <p>9. Participation with a research entitled: “Effect of pegylated interferon-α2a versus 5-fluorouracil on cancer stem cells in a rat model of hepatocellular carcinoma” At the 12th 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.</p> <p>10. The 6th Scientific Conference of the Faculty of Pharmacy, Cairo University - entitled: “2020 Vision for Pharmacy in Egypt” April 25-26, 2015.</p> <p>11. The 3rd International Conference entitled: “Predictive, Preventive and Personalized Medicine & Molecular Diagnostics”, September 1-3, 2015 – Spain.</p> <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 7th 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 10th Euro-Global Conference on “Infectious Diseases" held on 27-29 September 2018 - Rome - Italy.</p>
Languages	: English – French

