

# Mohamed Nagy Ahmed, Pharm, RPh, MS

## CONTACT INFORMATION

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## EDUCATION

2018 -2019 Diploma of Medicinal Biochemistry, Faculty of Postgraduate Studies for Advanced Sciences, Beni Suef University, Egypt.  
Grade : Very Good

2012 - 2015 Master of Science in Biotechnology, American University in Cairo.  
Thesis: MTHFR C677T, PT G20120A and FV Leiden as Risk Factors for Thrombosis in Egyptian Pediatric ALL Patients.  
GPA: 3.8

2002 - 2007 Bachelor of Pharmacy, Faculty of Pharmacy, Helwan University, Cairo, Egypt.  
GPA: 3.2

## RESEARCH AND TEACHING EXPERIENCES

Sep '20 – June '21	Adjunct Instructor, Faculty of Pharmacy, Alexandria University. Alexandria, Egypt <u>Task</u> : Teaching Personalized Medicine and Pharmacogenetics in critical care for postgraduate PhD Program
Sep '20 – June '21	Adjunct Instructor, Faculty of Pharmacy, Tanta University. Tanta, Egypt <u>Task</u> : Teaching Personalized Nutrition and Nutrigenomics for postgraduate Nutrition Diploma
Jun '20 – Now	Deputy for Middle East and Africa region, Global PGx Committee , Pharmacogenomics Global Research Network (PGRN)
Dec '19 – Now	Clinical Instructor, University of Colorado Skaggs School of Pharmacy and Pharmaceutical Sciences
Sep '19 – Jan '20	Visiting Scholar, Department of Experimental and Clinical Pharmacology School of Pharmacy, University of Minnesota, Minneapolis, MN, USA <u>Aim</u> : develop a population pharmacokinetic model evaluating demographic, clinical factors in pediatric oncology patients within the Egyptian population using population pharmacokinetics and NONMEM analysis.
Feb '19 – June '19	Adjunct Instructor, Faculty of Pharmacy, MSA University. Cairo, Egypt <u>Task</u> : Teaching clinical pharmacogenetics (2 CH) for pharmacy students.
Sep '17 – Dec '19	Accredited Clinical pharmacy Preceptor Colorado University
Dec '14 - Nov '15	57357 Pharmacy Continuous Education and training officer
Jan '14 - Dec '14	57357 Pharmacy Education and Training Supervisor

May '11 - Jan '14	External Training Coordinator
Feb '14 – Jun '14	Research Assistant, Biology Department, at the American University in Cairo, spring 2014.
2010 - Now	Preceptor, clinical pharmacy training program, Cairo University. <u>Task:</u> supervise final year clinical pharmacy students during their clinical rotations at CCHE hospital.
2010 – Now	Member in the Education team for the nursing in 57357 hospital

## CLINICAL EXPERIENCE

Aug '17 - Now	Head of Pharmacy Specialties, Department of Pharmaceutical Services, Children's Cancer Hospital Egypt (CCHE) 57357  <u>Task:</u> leading a team of clinical pharmacist in different specialties (Cardiology, Psychiatry, Nuclear Pharmacy, Radiology, Operation room, Nutrition, Infectious Diseases and Personalized Medication Management)
Nov '15 - Now	Founding & Head of Personalized Medication Management Unit, Department of Pharmaceutical Services, Children's Cancer Hospital Egypt (CCHE) 57357  <u>Clinical tasks:</u> leading the laboratory which is responsible for therapeutic drug monitoring and clinical Pharmacogenetics services.  <u>Research tasks:</u> Participated in multiple research projects.  - Assessment of initial vancomycin dosing in the attainment of therapeutic concentrations in Egyptian Pediatric Oncology Patients (2019).  - Assessment of pharmacogenetics knowledge, attitude and practice (KAP) within our health care professionals via Survey (2017).  - Determination of Voriconazole antifungal levels in blood and assess the correlation between the level and the patient's genotype funded by Cairo University (2016).
Aug '08 - Nov '15	Clinical Pharmacist, Department of Pharmaceutical Services, Children's Cancer Hospital Egypt (CCHE) 57357.  <u>Tasks:</u> IV admixture pharmacist (2012 – 2013), ward pharmacist (2010 - 2012), dispensing pharmacist (2008 – 2010), responsible for extemporaneous preparations (2008 – 2010)
Jul '07- Aug '08	Community Pharmacist, Megharbalin Pharmacy, Cairo, Egypt

## AWARDS

June 2019	Awarded the USAID Scholarship for Short Term (4 months) training in The United States.
May 2016	Awarded recognition Plaque from the Egyptian Pharmacists Federation.
Jan 2015	Awarded Certificate of appreciation for outstanding performance in teaching of 57357 nursing continuous education programs.
April 2014	Certificate of academic honor from the American University in Cairo for my academic achievements in the Master Degree.

- May 2013 Certificate of appreciation from the Children cancer Hospital Egypt for the adherence to 57357 hospital Infection control guidelines.
- June 2012 Awarded AUC Research Grant (3000\$) for the proposal entitled: MTHFR C677T, PT G20120A and FV Leiden as Risk Factors for Thrombosis in Egyptian Pediatric ALL Patients.
- Feb '12 -June '14 Awarded Graduate Merit fellowship in the MSc program In Biotechnology at the American University in Cairo (AUC) (Renewed 3 times).
- Feb 2011 Certificate of honor from the Student conference on Pharmaceutical Studies (SCOPS) organization for my participation as a preceptor in the 2011 workshop.
- June 2009 Awarded the best pharmacist from CCHE pharmacy Department at the Egyptian pharmacist day.

**TRAININGS & COURSES:**

- April 2019 online Genetics course offered by Harvard Medical School (HMX) (10 weeks long course)
- Feb. 2019 Introduction to Nutrigenomics Crash Course organized by By Nordic labs. Johannesburg south Africa.
- Sept 2018 European Society of Pharmacogenomics and Personalized Therapy (ESPT) 4th summer school, Geneva, Switzerland
- March 2017 Pharmacogenomics Course for pharmacists, University of Florida, Florida, USA
- Jan 2017 Clinical Pharmacogenomics Course, held in Collaboration between Pharmacy School, Colorado University (Prof. Christina Aquilante) and Children's Cancer Hospital Egypt
- June 2016 Individualized Medicine in Infectious Diseases Workshop: a Practical Approach, Tubingen, Germany
- Oct. 2014 - Mar 2015 Introduction to principals and practice of clinical research (IPPCR) online course, NIH, USA
- Feb-Nov. 2014 Principles and Practice of clinical research (PPCR) online Course, Harvard medical school.
- April 2014 Certified Facilitator at Children's Cancer Hospital Egypt.
- Sep 2012 Certified human resource & training practitioner Diploma from the school of Continuing Education, University of Wisconsin Milwaukee.
- Jan 2011 Essential Protein Techniques in Cell Biology workshop, National Cancer Institute, Cairo University, Egypt.
- Sep 2010 Pharmaceutical Bioinformatics course, Uppsala University, Sweden.

**International societies and working groups membership :**

2020	Founder of The Standardizing Laboratory Practices in Pharmacogenomics (STRIPE) Collaborative Community ( <a href="http://www.pgxcc.org/">http://www.pgxcc.org/</a> )
2020	Founder of the Pharmacogenomics Access & Reimbursement Coalition ( <a href="http://www.parcoalition.org/">http://www.parcoalition.org/</a> )
2019	Member of the Global Genomic Medicine Collaborative (G2MC) Pharmacogenetics implementation working group. ( <a href="https://g2mc.org/">https://g2mc.org/</a> )

2018	Member of The Pharmacogene Variation (PharmVar) Consortium ( <a href="https://www.pharmvar.org/">https://www.pharmvar.org/</a> )
2016	Founder of the Pharmacogenomics Global Research Network (PGRN)
2016	Member of the European Society of Clinical Microbiology and Infectious Diseases (ESCMID).
2016	Member of the Pharmacogenetics and Stratified Medicine Network
2016	Member of the International Association of Therapeutic Drug Monitoring and Clinical Toxicology (IATDMCT)
2015	Member of the Clinical Pharmacogenetics Implementation Consortium (CPIC) ( <a href="https://cpicpgx.org/implementation/">https://cpicpgx.org/implementation/</a> )
2015 - 2016	Board Member of International Society of Pediatric Oncology Young Investigator (SIOP-YI).
2015	Member of the International Pediatric Oncology Nutrition Group (IPONG) Working Group.
2015	Member of the International society of pediatric oncology (SIOP) Africa Working Group.
2015	Member of the SIOP Pediatric oncology in developing countries (PODC) Education and Training Working Group.
2014	Member of the European society of oncology pharmacist (ESOP)
2014	Member of the Egyptian foundation of clinical pharmacy (EFCP)

#### **Invited Lectures and workshops:**

May 2020	Introduction to Personalized Nutrition & Nutrigenomics Webinar organized by the Egyptian Society of Nutrition Pharmacists
May 2020	Introduction to Personalized medicine & Pharmacogenomics online Course (4 sessions) organized by the International Pharmaceutical Students' Federation (IPSF-EMRO)
April 2019	<i>Role of Pharmacist In clinical Pharmacogenetics (Full day Workshop)</i> , Faculty of Pharmacy, University of Monastir, Tunisia
Feb. 2019	<i>Introduction to clinical Pharmacogenetics Webinar</i> , organized by the International Pharmaceutical Students' Federation (IPSF-EMRO)
Nov 2018	<i>Challenges of Clinical Pharmacogenomics Implementation &amp; How to Overcome</i> , the 4th Global Genomic Medicine Collaborative (G2MC) Conference November 28-30, 2018, Cape Town, South Africa
Oct 2018	<i>Preemptive Clinical Pharmacogenetics Implementation: How to translate theory into practice and overcome challenges?</i> the Fifth Middle East Molecular Biology Congress, Dead Sea, Jordan
March 2018	<i>Clinical Pharmacogenetics Implementation Just for You</i> , the Personalized Medicine Meeting: from Discovery Science to the Patient Conference, Zewail University, Egypt
August 2015	<i>Role of clinical pharmacist in catching Drug interaction</i> , MSA University under the patronage of the Egyptian foundation of Clinical Pharmacy

Dec 2014	<i>Pharmacogenetics one size does not fit all</i> , the Egyptian oncology pharmacist network symposium, Cairo, Egypt
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### **Journal and Book Editorial**

- July 2019 Member of the editorial board of the *Personalized Medicine Journal*, Future Medicine Group.
- Dec 2016 - June 2017 *Participated in reviewing the following Chapters from Medical Genetics Summaries online Book developed by NCBI:*
- [Amitriptyline Therapy and CYP2D6 and CYP2C19 Genotype](#)
  - [Capecitabine Therapy and DPYD Genotype](#)
  - [Carisoprodol Therapy and CYP2C19 Genotype](#)
  - [Fluorouracil Therapy and DPYD Genotype](#)
  - [Imipramine Therapy and CYP2D6 and CYP2C19 Genotype](#)
  - [Phenytoin Therapy and HLA-B\\*15:02 and CYP2C9 Genotypes](#)
  - [Thioridazine Therapy and CYP2D6 Genotypes](#)
  - [Risperidone Therapy and CYP2D6 Genotype.](#)
  - [Propafenone Therapy and CYP2D6 Genotype.](#)
  - [Prasugrel Therapy and CYP Genotype.](#)

### **Publications and poster presentations:**

#### *Conference Presentations*

- 1- Christina Aquilante, Sherif Kamal, **Mohamed Nagy**, Jodie Malhotra, Kari Franson, Manal Zamzam, Sherif Abouelnaga. *'An intensive clinical pharmacogenomics course for pharmacists in developing countries: the University of Colorado and Children's Cancer Hospital Egypt experience. Monash Pharmacy Education Symposium, October 2017 (Poster presentation)*
- 2- **Mohamed Nagy**, Iman Sidhom, Asma Amleh, Nayera Hamdy. *MTHFR C677T, PT G20120A and FV Leiden as Risk Factors for Thrombosis in Egyptian Pediatric ALL Patients. International society of pediatric oncology Congress (SIOP) held in South Africa, October 2015 (Poster presentation)*
- 3- S. Kamal, **M. Nagy**, S. Hisham. *Tannic Acid as an effective hemostatic agent in pediatric adenocarcinoma. European Society of clinical pharmacy (ESCP) congress, Lyon, France, 2010 (Poster presentation)*

#### *Peer reviewed articles*

- 1- . Crews, K.R., Monte, A.A., Huddart, R., Caudle, K.E., Kharasch, E.D., Gaedigk, A., Dunnenberger, H.M., Leeder, J.S., Callaghan, J.T., Samer, C.F., Klein, T.E., Haidar, C.E., Van Driest, S.L., Ruano, G., Sangkuhl, K., Cavallari, L.H., Müller, D.J., Prows, C.A., **Nagy, M.**, Somogyi, A.A. and Skaar, T.C. (2021),  
Clinical Pharmacogenetics Implementation Consortium Guideline for CYP2D6, OPRM1, and COMT Genotypes and Select Opioid Therapy. *Clin Pharmacol Ther.* <https://doi.org/10.1002/cpt.2149>
- 2- **Mohamed Nagy**, Mohamed Attya, George Patrinos. *Unraveling heterogeneity of the clinical pharmacogenomic guidelines in oncology practice among major regulatory bodies* *Pharmacogenomics* 21 (17), 1247-1264

- 3- **Mohamed Nagy**, Christina Aquilante, Meghan Lynch, Sherif Kamal, Sarah Mohamed, Alaa Hadad, Sherif Abouelnaga. Assessment of healthcare professionals' knowledge, attitudes, and perceived challenges of clinical pharmacogenetic testing in Egypt. *Personalized Medicine* 17 (4), 251-260
- 4- **Mohamed Nagy**, Evangelia Eirini, Stavroula Siamoglou, George Patrinos. Evaluating the current level of pharmacists' pharmacogenomics knowledge and its impact on pharmacogenomics implementation. *Pharmacogenomics* 21 (16), 1179-1189
- 5- Hala Reda, Sonya Soliman, Hany Girguis, **Mohamed Nagy**, Yousra Mahmoud, and Nouran Yasser. Comparison between three different automated total 25-hydroxyvitamin D immunoassay methods and Ultra Performance Liquid Chromatography. *Asian Pac J Cancer Prev.* 2020 Apr 1;21(4):1039-1044. doi: 10.31557/APJCP.2020.21.4.1039
- 6- Al-Ghobashy MA, Kamal SM, El-Sayed GM, Attia AK, **Nagy M**, ElZeiny A, Elrakaiby MT, Nooh MM, Abbassi M, Aziz RK. Determination of voriconazole and co-administered drugs in plasma of pediatric cancer patients using UPLC-MS/MS: A key step towards personalized therapeutics. *Journal of Chromatography B.* 2018 Aug 15; 1092:489-98.

#### **PERSONAL DATA:**

- Date of birth: 27/5/1984
- Nationality: Egyptian
- Marital status: Married
- Military service: Final exemption