

Curriculum Vitae

Hany Mohamed Gamal Eldeen Adelmotelb IBRAHIM

Assistant Professor

Pharmaceutical Chemistry Department

Faculty of Pharmacy, Egyptian Russian University

Badr City, Cairo-Suez Road, Postal Code 11829

Tel.: (+2) 02 2864-3340, 2864-3342, Fax: (+2) 02 2864-3332

URL: // eru.edu.eg

1. Personal Information

First Name / Surname: Hany IBRAHIM

Date of Birth: 03/04/1973

Nationality: Egyptian

E-mail: hany.ibrahim@eru.edu.eg

Gender: Male

2. Education

Title of Awarded Degree	Name of Organization Providing Education	Principle Subject	Date
Ph D.	Faculty of Pharmacy, Paul Sabatier University, Toulouse, France	Analytical Chemistry	04/2008
Master's degree	Faculty of Pharmacy, Remis University, Reims, France	Analytical Chemistry	06/2004
Bachelor of Pharmaceutical Science	Faculty of Pharmacy, Cairo University, Cairo, Egypt		06/1995

3. Professional Experience

Occupation	Name & Address of Employer	Dates	
		From	To
Assistant professor	Faculty of Pharmacy, Egyptian Russian University, Cairo, Egypt	09/2015	Present
Assistant professor	Faculty of Pharmacy, Toulouse III University, Toulouse, France	11/2014	08/2015
Consultant	Baxter R&D, Braine-l'alleud, Belgium	10/2013	01/2014
Researcher	Faculty of Pharmacy, Paul Sabatier University, Toulouse, France	01/2009	12/2012
Post-doctoral fellow	Faculty of Pharmacy, Paul Sabatier University, Toulouse, France	04/2008	12/2008
Demonstrator	Faculty of Pharmacy, Helwan University, Cairo, Egypt	10/1997	08/2003
Pharmacist	Military hospital services, Cairo, Egypt	10/1995	12/1996

4. Discipline

General Discipline	Pharmacy	Principle Subject	Pharmaceutical Analytical Chemistry
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5. Professional & Technical Skills

- Preparation & teaching Analytical chemistry courses for 1st, 2nd & 3rd year pharmacy students (Qualitative, Quantitative, & Instrumental Analysis, Quality Control, Applied Analytical Chemistry)
- Preparation and writing courses specifications and their reports (Quality assurance unit).
- Long experience in chromatographic (TLC, analytical/semi-prep HPLC, UPLC, μ HPLC) and spectroscopic techniques (UV-vis, Fluorescence, Laser-induced fluorescence, tandem MS-MS, IR, NMR, EPR, Circular Dichroism, X-Ray Powder Diffraction, Differential Scanning Calorimetry, SEM, TEM, Photon Correlation Spectroscopy)
- Development and validation of analytical methods (ICH guidelines)
- Development and characterization of nano-formulation (Nab-TechTM, NanoEDGETM; international patents)
- *In-vitro*, *in-vivo* studies, drug-protein interaction and pharmacokinetic studies
- Good experience in extraction & analysis of drugs and their metabolites in complex media (biological fluids, cells, hepatic microsomes and marketed dosage forms)
- Planning, design and performing protocol-specified activities, reporting and publication of results
- Data collection, analysis, writing & revision of different reports during the validation steps.
- Inspection, cleaning, maintenance, testing and calibration of instruments
- Working through national and international research projects (Task leader)
- Education and supervision of undergraduate pharmacy, MsD and PhD French students.
- Training of lab technicians and assistant engineers
- Long experience in drug development stages: (antitumor & antimalarial drug candidates)
- Excellent multi-disciplinary experience in various scientific and management domains
- Exceptional problem-solving skills
- Reviewer in many international journals

6. Personal Skills

Computer Skills	Self Assessment		
	Excellent	Good	Fair
Microsoft Office	X		
Chemdraw, ISIS draw	X		
Empower, Millenium, Chemstation, Xcalibur	X		
Language Skills			
	Excellent	Good	Fair
Arabic	X		
English		X	
French	X		

7. Scientific Activities

a. Publication:

- 1) **Ibrahim H**, Serag A, Farag MA. Emerging analytical tools for the detection of the third gasotransmitter H₂S, a comprehensive review. *J. Adv. Res.* **2021**, 27, 137-153.
- 2) **Ibrahim H**, Hamdy AM, Merey HA, Saad AS. Simultaneous Determination of paracetamol, propyphenazone and caffeine in presence of paracetamol impurities using dual-mode gradient HPLC and TLC densitometry methods. *J. Chromatog. Sci.* **2021**, 59, 140–147.
- 3) Atty SA, Ibrahim AH, **Ibrahim H**, et al. Simultaneous voltammetric detection of anti-depressant drug, sertraline HCl and paracetamol in biological fluid at CNT-cesium modified electrode in micellar media. *Microchem. J.* **2020**, 159, 105524.
- 4) Boutzen H, Cazalbou S, **Ibrahim H**, Recher C, Sarry J-E. New formulations of retinoic acid derivatives and their use for treating cancer. PCT Int. Appl. **2017**, WO 2017182584 (A1).
- 5) Rakotoarivelo N, Ibrahim N, **Ibrahim H**, et al. Antimalarial activity of 2-Aryl-3H-indol-3-one formulated in albumin-based nanosuspensions. *Jacobs J. Med. Chem.*, **2016**, 2, 006.
- 6) Ibrahim N, **Ibrahim H** et al. Artemisinin nanoformulation suitable for intravenous injection: preparation, characterization and antimalarial activities. *Int. J. Pharm.*, **2015**, 495, 671-679
- 7) El Souda S, Ibrahim N, Perio P, **Ibrahim H** et al. Powerful antioxidant and pro-oxidant properties of *Cassia roxburghii* DC. leaves cultivated in Egypt in relation to their anti-infectious activities. *Journal of Herbs Spices and Medicinal Plants*, **2015**, 21, 410-425
- 8) Nepveu F, **Ibrahim H**, Ibrahim N. Use of nanoparticles for the production of injectable, water-soluble anti-malarial compositions. PCT Int. Appl. **2014**, WO 2014188131 A1
- 9) Ibrahim N, **Ibrahim H** et al. Albumin-bound nanoparticles of practically water-insoluble antimalarial lead greatly enhance its efficacy. *Int. J. Pharm.*, **2014**, 464, 214 - 224

- 10) Chabir N, **Ibrahim H** *et al.* Seeds of *Peganum harmala* L. chemical analysis, antimalarial and antioxidant activities & cytotoxicity against human breast cancer *Cells. Med. Chem.*, **2014**, 1573-4064
- 11) Nguyen T H Y, **Ibrahim H** *et al.* Pro-oxidant properties of indolone-*N*-oxides in relation to their antimalarial properties. *J. Inorg. Biochem.*, **2013**, 126, 7-16
- 12) **Ibrahim H**, Couderc F *et al.* Behaviour of indolone-*N*-oxide derivatives in atmospheric pressure ionization mass spectrometry, *Rapid Commun. Mass Spectrom.*, **2013**, 27, 621-628
- 13) **Ibrahim H**, Furiga A *et al.* Antibacterial, antifungal and antileishmanial activities of indolone-*N*-oxide derivatives. *J. Antibiotics*, **2012**, 65, 499-504
- 14) Reybier K, Nguyen T H Y, **Ibrahim H** *et al.* Electrochemical behavior of indolone-*N*-oxides: relationship to structure and antiplasmodial activity, *Bioelectrochemistry*, **2012**, 88, 57-64
- 15) Pantaleo A, Ferru E, Vono R, Giribaldi G, Lobina O, Nepveu F, **Ibrahim H** *et al.* New anti-antimarial indolone-*N*-oxides, generating stable radical species, promote destabilization of the host cell membrane at early stages of *P. falciparum* growth. *Free Rad. Bio. Med.*, **2012**, 52, 527-536
- 16) **Ibrahim H**, Pantaleo A *et al.* Pharmacological properties of indolone-*N*-oxides controlled by a bio-reductive transformation in red blood cells? *Med. Chem. Comm.*, **2011**, 2, 860-869
- 17) Tahar R, Vivas L, Basco L, Thompson E, **Ibrahim H** *et al.* Indolone-*N*-oxide derivatives: *in vitro* activity against fresh clinical isolates of *Plasmodium falciparum*, stage specificity and *in vitro* interactions with established antimalarial drugs. *J. Antimicrob. Chemother.*, **2011**, 66, 2566-2572
- 18) Ennajar M, Afloulous S, Romdhane M, **Ibrahim H** *et al.* Influence of the process, season, and origin on volatile composition and antioxidant activity of *Juniperus phoenicea* L. leaves essential oils. *J. Food Sci.*, **2011**, 76, C224-C230
- 19) Mkaddem M G, Romdhane M, **Ibrahim H** *et al.* Essential oil of *Thymus capitatus* Hoff. et Link. from Matmata, Tunisia: gas chromatography-mass spectrometry analysis and antimicrobial and antioxidant activities. *J. Med. Food*, **2010**, 13, 1500-1504 4/5
- 20) Ibrahim N, **Ibrahim H** *et al.* Interactions between antimalarial indolone-*N*-oxide derivatives and human serum albumin. *Biomacromolecules*, **2010**, 11, 3341-3351
- 21) Nepveu F, Kim S, Boyer J, Chatriant O, **Ibrahim H** *et al.* Synthesis and antiplasmodial activity of new indolone *N*-oxide derivatives. *J. Med. Chem.*, **2010**, 53, 699-714
- 22) **Ibrahim H**, Boyer A *et al.* Determination of non-steroidal anti-inflammatory drugs in pharmaceuticals and human serum by dual-mode gradient HPLC and fluorescence detection. *J. Chromatogr. B*, **2007**, 857, 59-66

23) **Ibrahim H**, Bouajila J *et al.* Very small injected samples to study chloroquine and quinine in human serum using capillary-LC and native fluorescence. *J. Chromatogr. B*, **2007**, 850, 481-487

Oral communications

1) Development of ATRA nanoparticles to improve the treatment of acute myeloid leukemia. World congress & expo on pharmaceuticals & drug delivery systems, Dubai, UAE, 20-22 April **2016**

2) Erythrocytes as a potential metabolic site for isatogen derivatives, Health Food Symposium, SAS 2012, Toulouse, France, 18-19 July **2012**

3) Behaviour of indolone-*N*-oxide derivatives in atmospheric pressure ionization mass spectrometry, International Conference of nanotechnology, Biotechnology and Spectroscopy, ICNBS Egypt 2012, Cairo, Egypt, 1-3 March **2012**

4) Red blood cells as a potential metabolic site for phenylisatogen derivatives. The 11th International chemistry conference and exhibition in Africa. Luxor, Egypt, 20-23 November **2010**

5) Very small-injected samples using capillary-LC and native fluorescence: application to antimalarials in human serum. Journée de chimie de la Catalogne et du grand sud ouest de la France. Barcelona, Spain, 23-24 November **2006**

Posters

1) Indolone *N*-oxides: synthesis, electrochemical studies and antiplasmodial activities. 16^{ème} journée Franco-Espanoles de chimie organique, Burgos, Spain, 19-24 June **2011**

2) Stability studies and analysis of indolone-*N*-oxides in human red blood cells using LC-DAD-FL-MS methods. SEP 2011, 9th Francophone congress of AfSep on the separative and coupling science. Toulouse, France, 23-25 March **2011**

3) Interactions between indolone-*N*-oxide derivatives and human serum albumin. SEP 2011, 9th Francophone congress of AfSep on the separative and coupling science. Toulouse, France, 23-25 March **2011**

4) Behaviour of indolone-*N*-oxide derivatives in API mass spectrometry. 6^{ème} Journée de Spectrométrie de Masse en Midi-Pyrénées, Toulouse, France, 13 December **2011** 5/5

5) Antimalarial properties of new indolone-*N*-oxides. 16^{èmes} Journées Nationales de Chimie, JNC16, Hammamet, Tunisia, 19-22 December **2010**

6) Phenolic derivatives from plants with antioxidant and free radical scavenging activities. Health and Food Symposium, Toulouse, France, 21-22 January **2009**

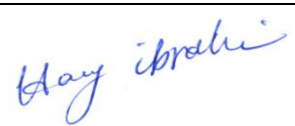
7) Antioxidant activity and free radical scavenging capacity of leaf extract of *cassia marginata roxb*, Health and Food Symposium, Toulouse, France, 21-22 January **2009**

- 8) HPLC and fluorescence detection: advantages and applications for drug analysis. 32nd International symposium on high performance liquid phase separations and related techniques. Baltimore, MD, USA, 10-16 May **2008**
- 9) Rapid and simple method to determine chloroquine and quinine in very small human serum samples by capillary LC-Laser induced fluorescence detection. HPLC-2006 Scientific Program: 30th International symposium on high performance liquid phase separations and related techniques. San Francisco, CA, USA. 17-23 June **2006**
- 10) Coupling high speed liquid chromatography and laser-induced fluorescence: opening the way to superb resolution and sensitivity. Application to the separation, in less than 5 minutes, of 18 amino acids at the nM level. 20th international Symposium on Microscale Bioseparations, Amsterdam, Netherlands, 22-26 January **2006**
- 11) N-tertio-butyl-N-oxides stability: an HPLC analysis with UV and electrochemical detections. 11th International conference on electroanalysis. Bordeaux, France, 11-15 June **2006**
- 12) Simultaneous determination of acetylsalicylic acid, mefenamic acid, and piroxicam in pharmaceuticals and human serum by HPLC with fluorescence detection. XXIIème Journée d'étude "Chimie-Biologie" Toulouse, France, 24 May **2006**
- 13) Simultaneous determination of acetylsalicylic acid, mefenamic acid and piroxicam in pharmaceuticals and human serum by HPLC with fluorescence detection. Drug Analysis, Namur, Belgium, 16-19 May **2006**

8. Awards

- 1) 'Young Investigator Award' from Toulouse Institute of Chemistry, **2013**.
- 2) 'Young Researcher Award of Paul Sabatier University' from the French Foundation for Medical Research, **2010**.
- 3) Ph.D. scholarship from the Egyptian Ministry of Higher Education, **2003**.

I certify that the information provided in this curriculum vitae is accurate.

Name	Hany Mohamed Gamal Eldeen Abdelmotelb IBRAHIM	Signature		Date	02/02/2021
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