



Curriculum Vitae

Sherin Zakaria Mohammed, Ph.D.

Assistant professor of Pharmacology

Department of Pharmacology and Toxicology

Faculty of Pharmacy

Kaferelshiekh University

Egypt

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Dr/ Sherin Zakaria Mohammed

Personal data:

Birth date: 8/8/1979, Kafr El-sheikh

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Google Scholar: <https://scholar.google.com/eg/citations?hl=en&user=wErcOIcAAAAJ>.

Research gate: <https://www.researchgate.net/profile/Sherin-Zakaria>

Education:

1. Ph.D. in pharmacology, Faculty of Pharmacy, Tanta University, May 2011
2. M.Sc. in pharmacology, Faculty of Pharmacy, Tanta University, Jan 2008.
3. B.sc of pharmaceutical sciences, Faculty of Pharmacy, Tanta University (May 2001).

Career:

A: Faculty of Pharmacy, Kaferelsheikh University, Egypt

- **Jan 2021 till present:** vice dean for postgraduates studies and research affairs and supervisor of pharmacology and toxicology department, Faculty of Pharmacy, Kaferelsheikh University , Egypt
- **Oct 2019 - Jan 2021:** Head of pharmacology and toxicology department. Faculty of Pharmacy, Kaferelsheikh University, Egypt
- **Sep 2019 till present:** Assistant professor of pharmacology, pharmacology and toxicology department, Faculty of Pharmacy, Kaferelsheikh University
- **October 2017- Dec 2020:** Coordinator of postgraduate studies, Faculty of Pharmacy, Kaferelsheikh University, Egypt
- **December 2017- 2020:** Executive director of quality assurance unit, Faculty of Pharmacy, Kaferelsheikh University, Egypt
- **July 2017- Aug 2019:** Lecturer of pharmacology, pharmacology and toxicology department, Faculty of Pharmacy, Kaferelsheikh University, Egypt

B: Faculty of Pharmacy, Damanhour University, Egypt (From 2/2012 to 6/2017):

- **Dec 2012 - Aug 2016:** Executive director of quality unit , faculty of pharmacy Damanhour university , Egypt
- **Feb 2012 - June 2017:** Lecturer of pharmacology, Faculty of Pharmacy, Damanhour University , Egypt

C: Ministry of health from 4/ 2002 to 2/2012 :

- **Sep 2011- Jan 2012:** Head of quality team in Kafrelshiekh Liver Research Center ().
- **June 2003-Mar 2012:** Head of clinical pharmacy department in Kafrelshiekh Liver Research Center.
- **April 2002- June 2003:** Pharmacist in Chest Hospital.

Projects:

- **April 2015 - Aug 2016 :** Executive director of Support and Development of Educational Effectiveness project (SDEE) - pharmacy collage- Damanhour university, Egypt.
- **Jan 2020 – Jan 2022** Executive director of Students' Practical and Professional Skills Development Innovative Project (SSDIP) entitled " **the training program of clinical pharmacist (I.V admixture – TPN- drug information - patient counseling)**" Faculty of Pharmacy , Kaferelsheikh University , Egypt

Teaching experience:

A: Kaferelsheikh University (from 2017 till now):

Maintain teaching load of undergraduate courses at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Kaferelsheikh University, Egypt

I: Undergraduates courses

1. Biophysics (1st level clinical pharmacy program)
2. Medical terminology (2nd level clinical pharmacy program)

3. Pharmacology I and II (3rd level clinical pharmacy program).
4. Pharmacology I and II (Bs.c of pharmaceutical science program, 2012 bylaw)
5. Toxicology (BS.c of pharmaceutical science program, 2012 bylaw)

Teaching applied Pharmacology course for 2nd year students, Faculty of Nursing, Kaferelsheikh University 2017/2018

II: Postgraduates courses

participation in teaching the following Ph.D courses in the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Kaferelsheikh University, Egypt as a lecturer

1. Advanced Pharmacology 2
2. Advanced applied and environmental toxicology
3. Seminars
4. Molecular pharmacology
5. Agents and Teratogenicity.

B. Damanhour University (From 3/2012 to 6/2017):

Participation in teaching the following Undergraduate students' courses in the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Damanhour University, Egypt as a lecturer:

I: Undergraduate courses

1. Medical terminology (1st year student)
2. Pharmacology I and II (3rd year students)
3. Biological Assay and Standardization & Biostatistics (4th year students)
4. Toxicology (4th year students)
5. Biophysics (1st level clinical pharmacy program)

6. Medical terminology (3rd level , clinical pharmacy program)
7. Pharmacology I and II (5th and 6th level, clinical pharmacy program).

During 2012-2016 I had been selected to teach the following courses in faculty of pharmacy Kaferelsheikh University.

1. Pharmacy orientation (2012/2013) (2013/2014) (2014/2015)
2. Medical terminology (2013/2014)
3. Pharmacology I and II (2014/2015) (2015/2016)

Teaching Pharmacology course for 1st year students of Faculty of Nursing, Damanhour University 2013/2014.

II. Post graduates courses

1. Pharmacotherapy for students of clinical pharmacy diploma

Academic experience

A: Kaferelsheikh University

I: Participate, as executive director of Quality Assurance Unit, in the following activities:

1. Preparing the programs and courses specification for all postgraduates programs in coordination with my colleagues in different scientific departments.
2. Preparing the self-study for pharmacy collage - Kaferelsheikh university (as a coordinator of postgraduate standard).
3. Acting as internal reviewer for postgraduates programs
4. Acting as internal reviewer for different quality standards
5. Preparing the accreditation files of pharmacy collage - Kaferelsheikh University submitted for NAQAA Jan 2018.
6. Enhancing quality awareness among faculty members by preparing different working shops about strategic planning and program specification

II: Participate, as a Coordinator for postgraduates' programs, in the following activities:

1. Attendance of all meeting of the subcommittee for postgraduates studies, taking administrative decisions concerning the program.
2. Design study plane.
3. Coordination between staff members implicated in teaching postgraduates programs.
4. Organization of Final Exams.

B: Damanhour University (From 3/2012 to 6/2017):

I: Participate, as executive director of Quality Assurance Unit, in the following activities:

1. Formulating the vision, mission and goals of faculty of pharmacy – Damanhour University.
2. analysis of the results of the environmental analysis of the college (SWOT analysis) to extract the most important factors of strength and weakness in college as well as opportunities and threats to be used in the development of the strategic plan of the College.
3. modifying the organizational structure of the college
4. supervision of job description prepared for academic and administrative staff members
5. Supervising of operational manuals prepared for various departments of the college (guidance manuals for youth welfare departments, administrative affairs, stores, education and students affairs and laboratories).
6. Preparations of quality assurance unite work manual.
7. Designing the internal quality control system using different tools such as series of questionnaires that assess the performance of leaders , job satisfaction , courses assessment and services provided students,...etc then preparing the final reports for questionnaires analysis to be presented to the specialized boards (College Board or Supreme committee of clinical pharmacy program)

8. The preparation self-study of pharmacy collage – Damanhour University (academic year 2013/2014)
9. Preparation of the annual report of pharmacy collage – Damanhour University (academic year 2014-2015).
10. Enhancing quality awareness among faculty members by preparing working shops about academic standards and curriculum matrix as well as quality standards in the educational process.
11. Develop the work plan of the Quality Assurance Unit of pharmacy College Damanhour university at the beginning of each academic year from 2014 – 2016
12. The preparation of SDEE project proposal (1st call) funded by Egyptian Ministry of Higher Education in cooperation with Damanhour university.
13. Acting as Executive Director of SDEE project which was delivered with implementation rates of various activities amounted to 95%

II: Memberships in Faculty Committees:

1. Member of the ethics of scientific research committee academic year 2012/2013
2. Member of the executive committee for the administration and operation of clinical pharmacy program from October 2014 until August 2016
3. Member of the Education and Student Affairs Committee from January 2013 until June 2017
4. Member of the Internal Auditing Committee for Educational Programs since September 2016 until June 2017

Experiences in the field of students and community affairs:

1. Coordinating, preparing and delivering series of lectures in the course entitled "the specialist in pharmaceutical information" directed to pharmacist working in different health sectors, El-behira governorate. 16/3/2014 until 2/4/2014, Damanhour , Egypt
2. Participated as a lecturer in the activities of " clinical pharmacology training workshop" at Institute of Oncology Damanhour, Egypt

3. Presenting series of scientific lectures entitled " Patient counseling, Drug information and Direct acting antiviral for HCV" " during training workshops directed to pharmacists working in different health sectors in El-behira governorate.
4. Participate in design of summer training program for the academic year 2012/2013 and supervise its implementation in faculty of pharmacy – Damanhour University.
5. As a lecturer of pharmacology, Faculty of Pharmacy, Damanhour University, I was selected by the EPSF students as a scientific leader of the society.
6. EPSF leader I had participated in the judging numbers of scientific competitions that develop professional skills for students

Certificates of Appreciation:

1. Certificate of appreciation from the first scientific conference of the Faculty of Pharmacy, Damanhour University.
2. Shield of the Faculty of Pharmacy, Damanhour University.
3. Certificate of appreciation from EPSF students.
4. Certificate of appreciation for the effective contribution to support student activities, Faculty of Pharmacy, Damanhour University.

Memberships in scientific society

1. Member of the Egyptian Society for Natural Toxins
2. Member of the Egyptian Society for Cancer Research

Memberships in editorial board of scientific journals

1. Journal of gastroenterology and hepatology research
2. American journal of pharmacological sciences.
3. Tumor biology

Conferences attendance

1. 14th international medical conferences, Cairo, 8-10 may 2014.
2. 6th international conference on natural toxins. December 2014. Ismailia, Egypt.

Poster presentation " **Mohammed SZ** and abdel-raheem IT. Salvadora Persica aqueous extract promotes healing of 5-Fluorouracil Induced Oral Mucositis in rats through local increase of KGF. Asian Journal of Phytomedicine and Clinical Research, 4(2), 2016, 69 – 79.

3. 1st PUA international conference on advances in pharmaceutical science 27-29 October , 2015 . Alexandria, Egypt.

Poster presentation "Maged H. Wasfy, Gamal Omran and **Sherin Zakaria** . Antitumor activity of sulfasalazine in DMBA-induced rat mammary tumors: role of Nf- κ B, IGF-1 and HER-2 axis inhibition. Proceeding of the 1st PUA international conference on advances in pharmaceutical science 27-29 October ,2015 page 151" .

4. International Conference on Pharmacy and Pharmacology , London, United Kingdom during September, 25-26, 2015

Poster presentation El- sisi A.; Zakaria, S. (2014), 'Rebamipide retards CCL4 induced hepatic fibrosis: a role for PGE2 ', World Academy of Science, Engineering and Technology, International Science Index.

<https://www.waset.org/abstracts?q=rebamipide&search=Search> .5

6. 18th international congress of Egyptian society of Hepatology, Gastroenterology and Infectious Disease (ESHGID) September 7-9, 2016 Alexandria, Egypt.

7. 7th International meeting of Egyptian society of HCC. 20-21 Dec 2017. Cairo, Egypt

8. The fifth pharmaceutical conference " pharmacy up to date held in faculty of pharmacy , KSU 13th October ,2018

9. The first African health conference, Cairo, Egypt. jan 29 –feb 1st 2019.

Poster presentation **Sherin Zakaria** and Alaa E. El-sisi. Daclatasvir and sofosbuvir mitigate hepatic fibrosis through downregulation of TNF- α / NF- κ B signaling pathway"

Training and workshops

1. Workshop entitled " Self-Assessment for Higher Education Institutions" 30 November-1 December 2013 at Damanhour University by the National Authority for Quality Assurance and Accreditation of Education NAQAAE.

2. Workshop entitled " programs specification and course matrix for higher education institutions" 2-3 December at the University of Damanhour by the National Authority for Quality Assurance and Accreditation of Education NAQAAE.
3. Workshop entitled " The External Auditing for Higher Education Institutions" 4-5 December 2013 at Damanhour University by the National Authority for Quality Assurance and Accreditation of Education (NAQAAE)
4. Workshop entitled " Quality Standards In The Education Process" from 4-5 April 2012 provided by Center of capacity development for teaching staff members
5. Workshop entitled " Electronic Learning " Faculty of Pharmacy, Damanhour University. August 1, 2016.
6. Workshop entitled" students' assessment methods " Faculty of Pharmacy, Damanhour University, August 1, 2016
7. Course entitled "Advanced molecular biology (PCR and DNA sequencing) and bioinformatics " held at medical technology center for research and services , medical research institute , Alexandria university 29th Aug -1st sep , 2015
8. Course entitled "hands on : basic techniques in cell culture and stem cell research" held at medical technology center for research and services , medical research institute , Alexandria university 22th -24th Dec, 2015
9. Workshop of "Pharmaceutical Vigilance" held in Damanhour, Elbahira, Egypt, February 23rd 2015 under supervision of Egyptian Pharmaceutical Vigilance Center.
10. The training program entitled " Strategic Planning " from human resources management (HRM) international center 26-27 /7/2017
11. The training program entitled " International Scientific Publishing " from the HRM international center 1-3 /8/2017
12. The training program entitled " University Management " from the HRM international center 22-23 /8/2017

13. The training program entitled " Credit Hour System " from the HRM international center 12-14 /9/2017
14. The training program entitled " Preparing Competitive Research Projects Course " from the HRM international center 1-2 /10/2017

On line activity

1. **MET expression in hepatocellular carcinoma: testing, treatment and future direction.** An internet based activity from The Postgraduate Institute for Medicine, May 2014
2. **A Primary Care Perspective on SGLT2 Inhibitors.** Date completed: November 16, 2016. Universal Activity Number: 0461-0000-16-187-H01-P
3. **IBD Therapies: Guidance for Managed Care Professionals.** Date completed: December 7, 2016. Universal Activity Number: 0461-0000-16-200-H01-P.
4. **Recent advances in managing patients with advanced incurable HCC.** An internet based activity from The Postgraduate Institute for Medicine, Dec 26,2016.
5. **Clinical pharmacy virtual internship course provided by children cancer hospital Egypt 57357 from 5th July till 16th July ,2020 (30 hour)**

Thesis supervision

Thesis of Ph.D Degree, faculty of pharmacy , kaferelsheikh university entitled "**Blocking HIF signaling pathway in colon cancer using different pharmacological modalities**" as a main supervisor with Prof. Dr. Alaa eldin Elsaid el-sisi and Dr. shady Allam .

Thesis of master Degree, faculty of pharmacy , kaferelsheikh university entitled "**Role of Tuftelin1 (TUFT1) as a diagnostic biomarker in different stages of hepatocellular carcinoma in rats and evaluation of it as a possible therapeutic target**" as a co-supervision with Prof. Dr. Ramadan Ahmed Eldomany and Prof. Dr. Mamdouh Mohammad El-Shishtawy.

Thesis of Ph.D Degree, faculty of pharmacy , kaferelsheikh university entitled "**Assessment of Mitochondrial dynamics as diagnostic as well as therapeutic markers in experimentally induced HCC**" as a co-supervision with Prof. Dr. Ramadan Ahmed Eldomany and prof.Dr. Nabil Mohie Abdelhameed

Ongoing thesis

Thesis of Ph.D Degree, faculty of pharmacy , kaferelsheikh university entitled " **Effect of some natural compounds on proliferation signaling pathways in hepatocellular carcinoma**" as a co-supervision with Prof. Dr. Ramadan Ahmed Eldomany and Prof. Dr. Mamdouh Mohammad El-Shishtawy.

Thesis of master Degree, faculty of pharmacy , kaferelsheikh university entitled " **assessment of ferroptosis inhibition and JNK inhibition as a possible therapeutic target in Alzheimer's disease (AD)**" as a co-supervision with Prof. Dr. Alaa eldin Elsaid el-sisi and waled Ado .

List of publication

1. El-sisi A, El-fert A, El sayad M, **Zakaria S**. Anti-fibrotic effect of telmisartan in silymarin treated HCV –Egyptian patients INT.J.PH.SCI., Sep-Dec, 2011;3(3):1706-1714
2. El-sisi A, El-fert A, El sayad M, **Zakaria S**. A randomized controlled study of the effect of AT1 on fibrosis markers in Egyptian HCV patients. JGHR 2012; 1(9): 213-218
3. Abdel-Hamid NM, Mohafez OM, **Zakaria S**, Thabet K. (2014) Hepatic somatostatin receptor 2 expression during premalignant stages of hepatocellular carcinoma. Tumour Biol. (3):2497-502. DOI 10.1007/s13277-013-1330-x
4. **Zakaria S** and Abdel-Raheem IT. Salvadora persica aqueous extract promotes healing of 5-fluorouracil induced oral mucositis in rats: a possible role of KGF, Asian Journal of Phytomedicine and Clinical Research, 4(2), 2016, 69 – 79.
5. **Zakaria S** & El-Sisi Alaa, Rebamipide retards CCl4-induced hepatic fibrosis in rats: Possible role for PGE2, 2016 Journal of Immunotoxicology, DOI:10.3109/1547691X.2015.1128022
6. Elfert Asem A., Abo Ali Lobna, , Solimana Samah, **Zakaria Sherin**, Shehab El-Dina Ibrahim, El-khalawany Walaa, and Abd-Elsalam. Sherief. Randomized placebo-controlled study of baclofen in the treatment of muscle cramps in patients with liver cirrhosis. European Journal of Gastroenterology & Hepatology, Volume 28(11), November2016, p1280–1284. DOI: 10.1097/MEG.0000000000000714
7. **Zakaria S** and Abdel-Raheem IT . Keratinocyte Growth Factor (KGF) and Il-10 are Possible Molecular Targets of Rebamipide Healing Activity In Experimental Oral Mucositis Induced by Chemotherapy. Am. J. Pharm Health Res 2017;5(5): 39-54

8. **Zakaria S**, Helmy MW, Salahuddin, A Omran G . Chemopreventive and antitumor effects of benzyl isothiocyanate on HCC models: A possible role of HGF /pAkt/ STAT3 axis and VEGF. *Biomedicine & Pharmacotherapy* 108 (2018) 65–75
9. N.M. Abdel-Hamid, A.H. Abdullah, **S. Zakaria** and S. Allam. Underlying biochemical explanation for ibuprofen induced alopecia through study on zinc and iron kinesis in treated rats SYLWAN.,2018;162(11)
10. El-Sisi Alaa **& Zakaria S**. Potential anti-fibrotic effect of direct acting antiviral drugs on CCl4 induced hepatic fibrosis in rats *Egyptian Journal of Basic and Clinical Pharmacology*. Vol. 9 (2019).8 pages.doi:10.32527/2019/101414.
11. **Zakaria Sherin**. Natural remedies target different therapeutic pathways in oral mucositis induced by cancer chemo or radiotherapy. *IJP* (2017), Vol. 4, Issue
12. Mazyed Eman A. and **Zakaria Sherin**. Enhancement of dissolution characteristics of clopidogrel bisulphate by proniosomes. *International Journal of Pharmaceutics*. Vol 11, Issue 2, 2019. DOI: 10.22159/ijap.2019v11i2.30575
13. **Zakaria S**, El-Sisi AE. Daclatasvir and sofosbuvir mitigate hepatic fibrosis through downregulation of TNF- α / NF- κ B signaling pathway [published online ahead of print, 2020 Jan 15]. *Curr Mol Pharmacol*. 2020;10.2174/1874467213666200116114919. doi:10.2174/1874467213666200116114919
14. El-Feky, Y. A., Mostafa, D. A., Al-Sawahli, M. M., El-Telbany, R., **Zakaria, S.**, Fayez, A. M., Ahmed, K. A., Alolayan, E. M., & El-Telbany, D. (2020). Reduction of intraocular pressure using timolol orally dissolving strips in the treatment of induced primary open-angle glaucoma in rabbits. *The Journal of pharmacy and pharmacology*, 72(5), 682–698. <https://doi.org/10.1111/jphp.13239>