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**Personal Data**

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Nationality	Egyptian
Gender	Male
Date of Birth	November 3 rd , 1983
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Education**Doctor of Philosophy (Ph.D.)**

Ph.D. in Biochemistry, Faculty of Science, **Menoufia University**, Egypt, **2015**. The thesis was supervised by Prof. Masaharu Seno (Prof. of Nanobiotechnology, Okayama, Japan). The thesis under titled *"Biochemical and Molecular Investigation of anticarcinogenic activity of Novel thalidomide dithiocarbamate analogs towards tumors"*.

Master of Science (M.Sc.)

M.Sc. in Biochemistry, Faculty of Science, **Cairo University**, Egypt **2010**. The thesis was evaluated and awarded very good grade by Prof. James E. Klaunig (Prof. of public health, Indianapolis, USA). The thesis under titled *"Biochemical and Molecular Study of anticarcinogenic activity of Novel thalidomide derivatives on Female Albino Mice bearing Solid tumor"*.

Bachelor of Science (B.Sc.)

B.Sc. in Chemistry, Faculty of Science, Menoufia University, Egypt, **2004** (Excellent 4 years-Hons (**86.67%**)).

**Professional
Experience**

Profession	Position	Date
Associate Professor	Chemistry Department, Faculty of Science, Menoufia University, Egypt .	Sep 2022 – till now
Post-doctoral Fellowship	Biomedical and Pharmaceutical Sciences, Chapman University School of Pharmacy, 9401 Jeronimo Road, Irvine, CA 92618, USA .	Mar 2022 – Aug 2022
Assistant Professor	Chemistry Department, Faculty of Science, Menoufia University, Egypt .	Mar 2020 – Feb 2022
Post-doctoral Fellowship	Laboratory of Nano-Biotechnology, Graduate School of Interdisciplinary Science and Engineering in Health Systems, Okayama University, Okayama, Japan	Nov 2018 – May 2019
Lecturer	Chemistry Department, Faculty of Science, Menoufia University, Egypt .	Mar 2015 – Feb 2020
Research Student	Graduated School of Natural Science and Technology, Okayama University, Japan	Jan 2013 – Jan 2015
Assistant Lecturer	Chemistry Department, Faculty of Science, Menoufia University, Egypt .	Feb (2010 – 2015)
Demonstrator	Chemistry Department, Faculty of Science, Menoufia University, Egypt .	Jan (2005 – 2010)

***Skills &
Expertise***

- Cell culture
- In vitro cytotoxicity
- Apoptosis FACS
- Cell cycle analysis
- RT-PCR
- Western blot
- Gel electrophoresis
- Cellular uptake
- Confocal microscope
- In-vivo model studies

***Research of
Interest***

- Biochemistry
- Cancer biology
- Chemotherapy
- Pharmacognosy

Reviewer/Referee

- International Journal of Biological Sciences
- Journal of Advanced Research
- Scientific Reports
- Food & Function
- PlosOne
- Biology
- Plants
- Cells
- Medicina
- Biomedicines
- Molecules

**Editorial Board
Membership**

1. Journal of Cancer Research Forecast
2. Pharmacology and Pharmaceutics Journal
3. Journal of Pharmacology and Therapeutics Forecast
4. Journal of Molecular and Cellular Biology Forecast

**International
meetings**

- 1- *17th Annual Peptide Therapeutics Symposium, La Jolla, California, USA, October 20 - 21, 2022.*
- 2- *The 27th International Society of Heterocyclic Chemistry Congress, Kyoto, Japan, September 1-6, 2019.*
- 3- *International Conference and Exhibition on Lung Disorders and Therapeutics, Baltimore, Maryland, USA, July 13-15, 2015.*
- 4- *Clinical & Cellular Immunology, Baltimore, Maryland, USA, September 29-October 1, 2014.*
- 5- *The 14th International Congress of Immunology, Kobe, Japan, August 22-27, 2010.*

Publications:

- 1- **El-Aarag B**, Shehata SB, El-Garawani IM, El-Seedi HR, Nofal AE. Regulation of Oxidative Stress and Apoptosis in Streptozotocin-Induced Diabetic Rats by Egyptian Sidr Honey. Chem Biodivers. **2024** May 8:e202400351.
- 2- **Bishoy El-Aarag**, Eman S. Shalaan, Ibrahim El Sayed, Wafaa M. Ibrahim. New cryptolepine derivative Exhibits In vivo Antitumor Activity against Ehrlich Ascites Carcinoma cells via reducing cell growth, oxidative stress, and Akt/mTOR signaling. Anti-cancer agents in medicinal chemistry, **2023**, Anticancer Agents Med Chem. **2024**;24(6):436-442.
- 3- Mohamed H. Elashal, Aida A. Abd El-Wahed, Mostafa Abdelgaber Mohamed, Rania Hamad, Mabrouk Attia Abd Eldaim, Shaden A. M. Khalifa, Hesham El Seedi, Mohamed F. AlAjmi, **Bishoy El-Aarag**. Apilarnil ameliorates Bisphenol A-induced testicular toxicity in adult male rats via improving antioxidant potency and PCNA expression. Reprod Toxicol. **2024** Apr;125:108570.
- 4- Umaima Akhtar, Yamna Khurshid, **Bishoy El-Aarag**, Basir Syed, Ishtiaq A. Khan, Keykavous Parang and Aftab Ahmed. Proteomic Characterization and Antiproliferative Potential of Proteins from Cuscuta Epithymum Crude Herbal Product Against MCF-7 Human Breast Cancer Cell Line. BMC Complement Med Ther. **2024** May 20;24(1):195.

- 5- El-Saied, F. A., Metwaly, A., Salem, T. A., & **El-Aarag, B.** Synthesis, characterization and anticancer potency of novel Mn(II), Co(II), and Cu(II) complexes based on N-[(1E)-1-(4-hydroxy-6-methyl-2-oxo-2H-pyran-3-yl)ethylidene]-2-(4-methylanilino)acetohydrazide. Egyptian Journal of Chemistry, **2023**.
- 6- Aldakhil, T., Alshammari, S.O., Siraj, **El-Aarag B.**, Zarina, S., Saleh, D., Ahmed, Aftab. The structural characterization and bioactivity assessment of nonspecific lipid transfer protein 1 (nsLTP1) from caraway (*Carum carvi*) seeds. BMC Complement Med Ther 23, 254, **2023**.
- 7- Gupta, S.; Park, S.E.; Mozaffari, S.; **El-Aarag, B.**; Parang, K.; Tiwari, R.K. Design, Synthesis, and Antiproliferative Activity of Benzopyran-4-One-Isoxazole Hybrid Compounds. Molecules **2023**, 28, 4220.
- 8- El-Seedi, H.R.; Yosri, N.; **El-Aarag, B.**; Mahmoud, S.H.; Zayed, A.; Du, M.; Saeed, A.; Musharraf, S.G.; El-Garawani, I.M.; Habib, M.R.; et al. Chemistry and the Potential Antiviral, Anticancer, and Anti-Inflammatory Activities of Cardiotonic Steroids Derived from Toads. Molecules **2022**, 27, 6586.
- 9- **Bishoy El-Aarag**, Evet El-Tahan, Magdy Zahran. New Thalidomide Derivative with An Anti-Migrative and Anti- Proliferative Effects on Lewis Lung Carcinoma Cell, Egypt. J. Chem. **2022**, 65, No. 8.
- 10- Mohammed M. Nasef, **Bishoy El-Aarag**, Amal Hashim and Passent M. El Kafrawy. P Systems Implementation: A Model of Computing for Biological Mitochondrial Rules using Object Oriented Programming. IJACSA, 12(10), **2021**.
- 11- **Bishoy El-Aarag**, Alshaimaa Attia, Magdy Zahran, Ali Younes, Ehab Tousson. New phthalimide analog ameliorates CCl₄ induced hepatic injury in mice via reducing ROS formation, inflammation, and apoptosis. Saudi J. Biol. Sci., **2021**.
- 12- **Bishoy El-Aarag**, Fathy El-Saied, Tarek Salem, Nesrin Khedr, Shaden A.M. Khalifa, Hesham R. El-Seedi. New metal complexes derived from diacetylmonoxime-n(4)antipyrinylthiosemicarbazone: Synthesis, characterization and evaluation of antitumor activity against Ehrlich solid tumors induced in mice. Arab. J. Chem., **2021**, 14, 3, 102993.
- 13- **Bishoy El-Aarag**, Asmaa Khairy, Shaden A. M. Khalifa, Hesham R. El-Seedi. Protective Effects of Flavone from Tamarix aphylla against CCl₄-Induced Liver Injury in Mice Mediated by Suppression of Oxidative Stress, Apoptosis and Angiogenesis. Int. J. Mol. Sci. **2019**, 20(20), 5215.
- 14- Fathy El-Saied, **Bishoy El-Aarag**, Tarek Salem, Ghada Said, Shaden Khalefa, Hesham El-Seedi. Synthesis, characterization and antitumor activity of metal complexes derived from isatin-N(4)antipyrinethiosemicarbazone ligand against Ehrlich ascites carcinoma cells. Molecules, **2019**, 24(18), 3313.

- 15-Akimasa Seno, Chikae Murakami, **Bishoy El-Aarag**, Yoshiaki Iwasak, Toshiaki Ohara, Masaharu Seno. Cancer stem cell induction from mouse embryonic stem cells. *Oncology Letters* **2019**, 18(3).
- 16-M. Zahra, T.A. Salem, **B. El-Aarag**, N. Yosri, S. EL-Ghlban, K. Zaki, et al., *Alpinia zerumbet* (Pers.): Food and Medicinal Plant with Potential In Vitro and In Vivo Anti-Cancer Activities. *Molecules* **2019**, 24(13), 2495.
- 17-**El-Aarag, B.**; Magdy, M.; AlAjmi, M.F.; Khalifa, S.A.; El- Seedi, H.R. Melittin Exerts Beneficial Effects on Paraquat- Induced Lung Injuries in Mice by Modifying Oxidative Stress and Apoptosis. *Molecules* **2019**, 24(8), 1498.
- 18-**Bishoy El-Aarag**, Azza M Abdu-Allah, Mohamed Aid Abo- Alfa, and Ibrahim El Tantawy El Sayed. Serum Beta-Trace Protein and Cystatin C as Biomarkers for Renal Dysfunction in Patients with Chronic Kidney Disease. *J. Mol. Biomark. Diagn.* **2018**, 9:4.
- 19-M El-Bendary, M Neamatallah, H Elalfy, T Besheer, A Elkholi, M El-Diasty, M Elsareef, M Zahran, **B. El-Aarag**, et al.: The association of single nucleotide polymorphisms of Toll-like receptor 3, Toll-like receptor 7 and Toll-like receptor 8 genes with the susceptibility to HCV infection. *British Journal of Biomedical Science*, **2018**, 75(4).
- 20-Fathy A. El-Saied, Tarek A. Salem, **Bishoy Y. El-Aarag**, Manar A. Hashim. Synthesis, characterization and biological evaluation of metal complexes derived from 2- (phenylamino)acetohydrazide ligand. *EJPMR*, **2018**, 5(6), 86-93.
- 21-Zahran MAH, **El-Aarag B.** Mehany ABM, Belal A, Younes AS. Design, synthesis, biological evaluations, molecular docking, and in vivo studies of novel phthalimide analogs. *Arch Pharm Chem Life Sci.* **2018**; 351: e1700363.
- 22-**El-Aarag B.** Saad H, Hendy O, Abdel-Samiee M, Zahran. Latent Transforming Growth Factor-beta Binding Protein-1 as a Diagnostic Biomarker for the Detection of Hepatocellular Carcinoma. *J. Mol. Biomark. Diagn.* **2018**, 9: 388.
- 23-**Bishoy El-Aarag**, Wesam Mekawy, Wafaa Ibrahim, Magdy Zahran. Thymoquinone Improves Anti-Diabetic Activity of Metformin in Streptozotocin-Induced Diabetic Male Rats. *J. Diabetes & Metabolism* **2017**, 8: 780.
- 24-Magdy Zahran, Hussein Agwa, Amany Osman, Sherif Hammad, **Bishoy El-Aarag**, Nasser Ismail, Amira Gamal- Eldeen. Synthesis and biological evaluation of phthalimide dithiocarbamate and dithioate derivatives as anti-proliferative and anti-angiogenic agents. *European Journal of Chemistry* 8(4), (2017) 391-399.

- 25-**Bishoy El-Aarag**, Tomonari Kasai, Junko Masuda, Magdy Zahran, Hussein Agwa, Masaharu Seno. Anticancer effects of novel thalidomide analogs in A549 cells through inhibition of vascular endothelial growth factor and matrix metalloproteinase-2. *Biomedicine & Pharmacotherapy* **2017**;85: 549–555.
- 26-**Bishoy Y. A. El-Aarag**, Tomonari Kasai, Magdy A. H. Zahran, Nadia I. Zakhary, Tsukasa Shigehiro, Sreeja C. Sekhar, Hussein S. Agwa, Akifumi Mizutani, Hiroshi Murakami, Hiroki Kakuta, Masaharu Seno. In vitro anti-proliferative and anti-angiogenic activities of thalidomide dithiocarbamate analogs. *International Immunopharmacology* **2014**; 21: 283–292.
- 27-Ling Chen, Akifumi Mizutani, Tomonari Kasai, Ting Yan, Guoliang Jin, Arun Vaidyanath, **Bishoy YA El-Aarag**, Yixin Liu, Takayuki Kudoh, David S. Salomon, Li Fu, Masaharu Seno. Mouse induced pluripotent stem cell microenvironment generates epithelial-mesenchymal transition in mouse Lewis lung cancer cells. *Am. J. Cancer Res.* **2014**;15:4(1): 80–8.
- 28-Sreeja C Sekhar, Tomonari Kasai, Ayano Satoh, Tsukasa Shigehiro, Akifumi Mizutani, Hiroshi Murakami, **Bishoy YA El-Aarag**, David S. Salomon, Anna Massaguer, Rafael de Llorens, Masaharu Seno. Identification of Caveolin-1 as a Potential Causative Factor in the Generation of Trastuzumab Resistance in Breast Cancer Cells. *J. Cancer* **2013**; 4(5): 391–401.
- 29- Adel A Guirgis, Magdy A-H Zahran, Amr S Mohamed, Roba M Talaat, **Bishoy Y. Abdou** and Hussein S Agwa. Effect of Thalidomide Dithiocarbamate Analogs on the Intercellular Adhesion Molecule-1 Expression. *Int. Immunopharmacology* **2010**, (10): 806–808.

References:

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