

EMAN TORAIH

etoraih@tulane.edu Tulane University, School of Medicine, Louisiana, 70112, USA

[ResearchGate](#) | [PubMed](#) | [Google Scholar](#) | [Tulane website](#) | [LinkedIn](#)**EXPERIENCE**

| | | |
|---|---|---------------------|
| Research Project Manager | Endocrine Division, Surgery Department, Tulane University School of Medicine, LA, USA | Feb 2020 – present |
| Assistant Research Professor | Department of Surgery, Tulane University School of Medicine, New Orleans, LA, USA | Nov 2019 – present |
| Assistant Professor in Medical Genetics | Genetics Unit, Suez Canal University School of Medicine, Ismailia, Egypt | Jun 2019 – present |
| Head of the Molecular lab | Centre of Excellence in Molecular and Cellular Medicine, Suez Canal University, Ismailia, Egypt | May 2015 – Oct 2019 |
| Lecturer of Medical Genetics | Genetics Unit, Suez Canal University School of Medicine, Ismailia, Egypt | Jun 2014 – May 2019 |
| Assistant Lecturer of Medical Genetics | Genetics Unit, Suez Canal University School of Medicine, Ismailia, Egypt | May 2008 – Jun 2014 |
| Demonstrator of Medical Genetics | Genetics Unit, Suez Canal University School of Medicine, Ismailia, Egypt | Jun 2004 – May 2008 |
| Physician (General Practitioner) | Suez Canal University Hospitals, Ismailia, Egypt | Mar 2003 – Feb 2004 |

EDUCATION

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| Research fellowship – Bioinformatics | OmicsLogic Network, New Orleans, LA | Jun 2021 – Jun 2022 |
| Diploma – Bioinformatics | Suez Canal University, Egypt | Aug 2018 – Jun 2019 |
| Ph.D. – Medical Genetics | Suez Canal University, Egypt | May 2008 – May 2014 |
| Master – Medical Genetics | Suez Canal University, Egypt | Jun 2004 – Apr 2008 |
| M.B.B. Ch – Medicine | Suez Canal University, Egypt | Sep 1997 – Dec 2002 |

TRAININGS AND CERTIFICATION

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| Ingenuity Pathway Analysis Certified | Qiagen Co, USA | Nov 2022 – Dec 2022 |
| Advanced Bioinformatics | Pine-Biotech Omics Logic, NOLA, USA | Jun 2021 – Jun 2022 |
| Genomics, Bioinformatics, Programming | ArrayGen Technologies Pvt Ltd, Puna, India | Sep 2017 – Oct 2017 |
| Regenerative Medicine | University of Toronto, School of Medicine, Canada | Sep 2016 – Apr 2017 |
| Epigenetic Control of Gene Expression | University of Melbourne, Australia | Nov 2016 – Dec 2016 |

SKILLS

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| Data Science | <ul style="list-style-type: none"> Proficient in R, Python, SPSS, STATA, MATLAB, WEKA, SQL, Linux, Power BI, H2O, and other platforms for statistical analysis and machine learning |
| Bioinformatics | <ul style="list-style-type: none"> Experienced with bioinformatics programs like Partek Flow, CLC, IPA, GWAS, HaploView, TCGA, Cytoscape, Galaxy, OmicSoft for genomic and proteomic data analysis |
| Data Analysis | <ul style="list-style-type: none"> Skilled in statistical software like R, Python, STATA, SPSS for complex genomic, clinical, and epidemiologic data analysis Developed algorithms and programs to automate analysis workflows for large biomedical datasets as GEO, TCGA, NRD, SEER, TriNetX, TQIP, and NSQIP using integration and mining techniques |
| Data Visualization | <ul style="list-style-type: none"> Skilled in data visualization using Tableau, RStudio, Prism, BioVinci, geospatial, image J, Biorender, for biomedical data |
| Biomedical Research | <ul style="list-style-type: none"> Led multi-year translational research studies utilizing omics data, biostatistics, epidemiology. 18+ years conducting molecular biology experiments and analysis including PCR, RNAscope, Basescope, sequencing, FISH, immunohistochemistry, single-cell analysis, spatial transcriptomics, ATAC-seq, and methylation analysis |
| Leadership | <ul style="list-style-type: none"> Managed teams of 70 researchers and supervised junior scientists Mentored trainees; developed teaching curriculum and evaluated performance Led grant writing efforts, project planning, and milestone tracking Maintained lab equipment/supplies; ensured research compliance and quality Organized academic conferences, hands-on workshops, and delivered scientific presentations |

RESEARCH GRANTS AND CLINICAL TRIALS**Pending**

| | |
|---|-------------|
| PAR-22-216 NCI Clinical and Translational Exploratory/Developmental Studies | Kandil (PI) |
| Submitted: Oct 10, 2023 | |
| Exosomal miRNA Dynamics and Spatial Mapping in Metastatic Thyroid Cancer | |

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| Role: Co-investigator (25% effort) | | |
| Funding body: \$420,000 | | |
| PA-20-185, R01 | Mourad, Kandil, Errami (PIs) | |
| Submitted: October 5, 2023 | | |
| Complex SAGA in Targeted Therapy | | |
| Role: Co-investigator (5% effort) | | |
| Funding body: \$1,912,500 | | |
| PA-20-185 NIH Research Project Grant (Parent R01 Clinical Trial Not Allowed) | Toraih (PI) | |
| Submitted: June 5, 2023 | | |
| Charting spatial transcriptomic and proteomic map of autoimmune-associated thyroid cancer | | |
| Role: Principal investigator (60% effort) | | |
| Funding body: \$3,174,750 | | |
| PAR-23-058, R03 Assist 1473758 | Kandil (PI) | |
| Deciphering the TXK-BRAF Interplay: A Novel Perspective on Tumour Aggression and Therapeutic Resistance | | |
| Submitted June 16, 2023 | | |
| Role: Co-investigator (10% effort) | | |
| Funding body: \$153,000 | | |
| Ongoing Research Support | | |
| SOM 2022 Fall Pilot Funding Award | Toraih (PI) | 2023-2024 |
| Spatiotemporal transcriptomic landscape driving thyroid tumorigenesis and metastasis | | |
| Role: PI (30% effort) | | |
| Science and Technology Development Fund (STDF): YRG call: 33491 | Toraih (PI) | 2019-2023 |
| The Epigenetic Signature for Breast Cancer Patients: Molecular and Clinical Data integration | | |
| Role: Co-PI (10% effort) | | |
| Completed Research Support | | |
| American Thyroid Association (THYROIDGRANT2021-0000000232) | Toraih (PI) | 2021-2023 |
| miR-145/MMP9 ratio for prediction of recurrence in thyroid cancer | | |
| Role: PI (10% effort) | | |
| Tulane University Bridge Fund | Kandil (PI) | 2021-2022 |
| A microRNA signature predicting the thyroid aggressiveness is a new tool for the thyroid carcinoma active surveillance | | |
| Role: Co-investigator (30% effort) | | |
| Carol Lavin Bernick Faculty Grant Program (LBGrants Program) | Toraih (PI) | 2020-2021 |
| Circulatory exosomal miRNA panel: A tool for active surveillance in thyroid cancer | | |
| Role: PI (15% effort) | | |
| Carol Lavin Bernick Faculty Grant Program (LBGrants Program) | Zerfaoui (PI) | 2020-2021 |
| Concomitant nuclear translocation of BRAF-V600E and HMOX-1 is associated with drug resistance and poor prognosis in melanoma patients | | |
| Role: Co-Investigator | | |
| School of Medicine Pilot Grant | Zerfaoui (PI) | 2021-2022 |
| New molecular insights into BRAF therapy resistance in melanoma | | |
| Role: Co-Investigator (5% effort) | | |
| STDF, ID 22941 (Special Targeted Calls – Health call) | Yousry (PI) | 2016-2021 |
| MicroRNA Expression Signature in Glioblastoma Multiforme Tissues and Cell Lines: First Steps Towards a Cure | | |
| Role: Co-PI (40% effort) | | |
| STDF, Egypt | Ellawendi (PI) | 2018-2020 |
| Circulating microRNAs as predictive biomarkers of progression in vitiligo | | |
| Role: Co-investigator (20% effort) | | |
| Deanship of the Scientific Research, Northern Border University, SA. | Fawzy (PI) | 2019-2020 |
| PVT1 oncogene and apoptosis-related proteins (p53, Bcl2 and PD1) expression in thyroid carcinoma | | |
| Role: Co-investigator (30% effort) | | |
| Deanship of the Scientific Research, NBU, SA | Fawzy (PI) | 2019-2020 |
| Intronic variant rs2075876 in AIRE gene with Nottingham and Immunohistochemical Prognostic Indices in breast cancer | | |
| Role: Co-investigator (30% effort) | | |
| Deanship of the Scientific Research, NBU, SA | Toraih (PI) | 2019-2020 |
| Analysis of miR-34a rs2666433 variant and expression in colorectal cancer | | |
| Role: Co-investigator (30% effort) | | |
| Deanship of the Scientific Research, NBU, SA | Fawzy (PI) | 2018-2019 |
| Impact of Cytotoxic T-lymphocyte Associated Protein 4 codon 17 variant and expression on vitiligo risk and severity | | |
| Role: Co-investigator (30% effort) | | |
| Deanship of the Scientific Research, NBU, SA | Fawzy (PI) | 2018-2019 |
| Immunohistopathological analysis of GLUT1 and ASCT2 proteins expression in different morphologic types of thyroid cancer | | |
| Role: Co-investigator (30% effort) | | |
| Deanship of the Scientific Research, NBU, SA | Fawzy (PI) | 2017-2018 |
| Analysis of HFE, TMPRSS6 and BTBD9 gene variants and iron parameters in Saudi blood donors | | |

- Role: Co-investigator (30% effort)
Deanship of the Scientific Research, NBU, SA Fawzy (PI) 2017-2018
Analysis of BRAF gene mutations and its target protein in colorectal cancer among Saudi patients: A pilot study
Role: Co-PI (30% effort)
- Deanship of the Scientific Research, NBU, SA **Toraih** (PI) 2017-2018
MicroRNA machinery genes variants and risk of end-stage renal disease among Northern Saudi population
Role: Co-PI (30% effort)
- STDF (Call for scientific events): Conference: Annual biomedical conference of FOMSCU: SSE 17377 Feb 2015
Recent Advances in Stem Cell Research Conference FOMSCU
Role: Head of the scientific and logistic committee for the conference

RESEARCH ACTIVITIES

- Manal S. Fawzy, Afaf T. Ibrahim, Dalia Mohammad Osman, Maali Subhi Alshammari, Layan Tariq Almazyad, Noof Daif Allah Almatrafi, Rynad Tariq Almazyad, **Eman A. Toraih**. Angio-long noncoding RNAs-related gene variants in ovarian cancer. *Epigenomes*. Accepted Jan 22.
- Alyssa Webster, Dylan Pinion, Eric Pineda, Hadeel Aboueisha, Mohammad H. Hussein, Manal S. Fawzy, **Eman A. Toraih**, Emad Kandil. Elucidating the Link Between Thyroid Cancer and Mercury Exposure. *Environmental Science and Pollution Research*. Accepted Jan 12.
- Peter P. Issa, Christina McCarthy, Mohammad Hussein, Aaron L. Albuck, Essam Emad, **Eman Toraih**, Emad Kandil. Assessing Adequacy: A Meta-Analysis of Rapid Onsite Evaluation of Thyroid Nodules. *Journal of Surgical Research*. Accepted Jan 10.
- Mohammad Hussein, Peter P. Issa, Tessa R. Lavorgna, Chad P. Issa, Charlotte Pecot, Manal Fawzy, **Eman Toraih**. Adrenal Carcinoma Laterality is of Limited Clinical Significance: A National Perspective. *Cancers (cancers-2252857) Cancer investigation*. Accepted.
- Eman Toraih**, Mohammad Hussein, Allison Anker, Solomon Baah, Dylan Pinion, Jessan Jishue, Salmanfaizee Sadakkadulla, Madeline Case, Alexandra LaForteza, Krzysztof Moroz, Emad Kandil. Survival outcomes of medullary thyroid cancer with and without amyloid deposition. *Endocrine Practice*. 2024 Jan 4:S1530-891X(24)00012-0.
- Noura Ramadan Abdel-hamid; Eman A. Mohammed; **Eman Ali Toraih**; Mahmoud M Kamel, Ahmed Samir Abdelh, Fouad M. Badr. Gene expression Profiles of Circulating Estrogen Receptor-1, Long Non-coding RNA HOTAIR and MicroRNA-130a Genes are Associated with Cancer Stage and Metastasis in Breast Cancer. *Scientific Reports*. 2023 Dec 19;13(1):22654. doi: 10.1038/s41598-023-50007-5.
- Jonathon O. Russell, Dipan D. Desai, Julia E. Noel, Mohammad Hussein, **Eman Toraih**, Stefanie Seo, Mahmoud Omar, Peter Issa, Samantha Wolfe, Lisa A. Orloff, Ralph P. Tufano, Emad Kandil. Radiofrequency Ablation of Benign Thyroid Nodules: A Prospective, Multi-Institutional North American Experience. *Surgery*. 2023 Nov 10:S0039-6060(23)00725-0. doi: 10.1016/j.surg.2023.07.046.
- Mohamed I. Sakran, Adel I. Alalawy, Amnah A. Alharbi, Mohamed E. El-Hefnawy, Salem M. Alzahrani, Ahmed Alfuraydi, Fahad Mohammed Alzuaibr, Nahla S. Zidan, Afaf M. Elsaid, **Eman A. Toraih**, Rami Elshazli. The blockage signal for PD-L1/CD274 gene variants and their potential impact on Lung Carcinoma susceptibility. *International Immunopharmacology*. 2023 Nov 6;125(Pt A):111180. doi: 10.1016/j.intimp.2023.111180.
- Peter P. Issa, Eslam Hossam, Jack Cheng, Brandon M. Magazine, Mohamed Hussein, Ali Abdelhady, Mohamed Shama, **Eman Toraih**, Emad Kandil. Completion Thyroidectomy: A Safe Option for High Volume Surgeons. *Head Neck*. 2023 Oct 23. doi: 10.1002/hed.27551.
- Eman Toraih**, Mohammad Hussein, Peter P. Issa, Alexandra LaForteza, Mohamed Shama, Emad Kandil. From Ablation to Operation: Unraveling the Surgical Outcomes and Complications of Thyroidectomy after Radiofrequency Ablation. *Surgery*. 2023 Oct 20:S0039-6060(23)00629-3. doi: 10.1016/j.surg.2023.09.025.
- Eman A. Toraih**, Emmanuelle Ruiz, Bo Ning, Giovane G Tortelote, Sylvia Hilliard, Krzysztof Moroz, Tony Hu, Manal S. Fawzy, Emad Kandil. Chromatin-accessible miRNA regulons driving thyroid tumorigenesis and progression. *Journal of the American College of Surgeons (JACS)*. 2023 Apr 1;236(4):732-750.
- Katherine Cironi; Aaron L. Albuck; Bryant McLafferty; Alison K. Mortemore; Christina McCarthy; Peter P. Issa; Tyler Metz; Ali Abdelhady; Mohammed Hussein; **Eman Toraih**; Sharven Taghavi; Emad Kandil, Jacquelyn Turner. Risk Factors for Post-operative Infections Following Appendectomy of Complicated Appendicitis: A Single Institutional Study and Meta-Analysis. *Surg Laparosc Endosc Percutan Tech*. 2023 Sep 22. doi: 10.1097/SLE.0000000000001234.
- Eman A. Toraih**, Mohamed H. Hussein, Essam Al Ageeli, Mohamad Ellaban, Shahd W. Kattan, Krzysztof Moroz, Manal S. Fawzy, Emad Kandil. Matrix Metalloproteinase 9/microRNA-145 Ratio: Bridging Genomic and Immunological Variabilities in Thyroid Cancer. *Biomedicine*. 2023 Nov 1;11(11):2953. doi: 10.3390/biomedicine11112953.
- Marcela Herrera, Mohammad H. Hussein, Emily Persons, Magdy Ramy Alias, Abdelrahman Rabee, Abdullah Sayed, **Eman Toraih**, Emad Kandil. Survival Benefits of Extensive Surgery in patients with Papillary Thyroid Microcarcinoma. *The American Journal of Surgery*. 2023 Nov 8:S0002-9610(23)00585-8. doi:

- 10.1016/j.amjsurg.2023.11.001.
15. **Eman Toraih**, Mohammad Hussein, Peter P. Issa, Tessa Lavorgna, Emad Kandil. Chasing π -fection in Thyroidology. *Thyroid*. 2023 Apr;33(4):527-528. doi: 10.1089/thy.2022.0516.
 16. Mohammad Hussein, **Eman A. Toraih**, Ifidon E. Ohiomah, Nabeela Siddeeqe, Marie Comeaux, Maddie Landau, Allison Anker, Jessan A. Jishu, Manal S. Fawzy, Emad Kandil. Navigating Choices: Determinants and Outcomes of Surgery Refusal in Thyroid Cancer Patients Using SEER Data. *Cancers* 2023 Jul 20;15(14):3699.
 17. Lauren Mueller, Peter Issa, Mohammad Hosny Hussein, Rami Elshazli, Muhib Haidari, Youssef Errami, Mohamed Shama, Manal S Fawzy, Emad Kandil, **Eman Toraih**. Clinical Outcomes and Tumor Microenvironment Response to Radiofrequency Ablation Therapy: A Systematic Review and Meta-Analysis. *Gland Surgery*. <https://gs.amegroups.org/article/view/115914>
 18. Eva M. Kruger, Shaimaa A. Shehata, **Eman A. Toraih**, Ahmed A Abdelghany, Manal S. Fawzy. Type 2 Diabetes and Thyroid Cancer: Synergized Risk with Rising Air Pollution. *World Journal of Diabetes*. 2023 Jul 15;14(7):1037-1048. doi: 10.4239/wjd.v14.i7.1037.
 19. Peter P. Issa, Ruhul Munshi, Aaron Albuck, Mahmoud Omar, Ruba F. Abu Alhuda, Tyler Metz, Mohammad Hussein, Mohamed Shama, Grace S. Lee, **Eman Toraih**, Emad Kandil. Recommend with Caution: A Meta-Analysis Investigating Papillary Thyroid Carcinoma Tumor Progression Under Active Surveillance. *American Journal of Otolaryngology*, 2023 Jul 17;44(6):103994.
 20. Zenat Ahmed Khired, Mohammad H. Hussein, Jessan A. Jishu, Ahmed A. Toreih, Aly A.M. Shaalan, Manal S. Fawzy, **Eman A. Toraih**. Osseous Metastases in Thyroid Cancer: Unveiling Risk Factors, Disease Outcomes, and Treatment Impact. *Cancers* 2023, 15(14), 3557. doi.org/10.3390/cancers15143557.
 21. Aaron L. Albuck, Peter P. Issa, Mohammad Hussein, Mohamed Aboueisha, Abdallah S. Attia, Mahmoud Omar, Ruhul Munshi, Mohamed Shama, **Eman Toraih**, Gregory W. Randolph, Emad Kandil. A Combination of Computed Tomography Scan and Ultrasound Provides Optimal Detection of Cervical Lymph Node Metastasis in Papillary Thyroid Carcinomas: A Systematic Review and Meta-Analysis. *Head & Neck*. 2023 Sep;45(9):2173-2184.
 22. Katherine A. Cironi, Peter P. Issa, Aaron Albuck, Christina McCarthy, Leely Rezvani, Mohammad Hussein, Mohamed Shama, **Eman Toraih**, Emad Kandil. Comparison of Medical Management versus Parathyroidectomy in Patients with Mild Primary Hyperparathyroidism: A Meta-Analysis. *Cancers (cancers-2403279)*. 2023 Jun 7;15(12):3085. doi: 10.3390/cancers15123085.
 23. Shaimaa A. Shehata, **Emna A Toraih**, Ezzat A. Ismail, Abeer M. Hagra, Ekramy Elmorsy, Manal S. Fawzy. Vaping, Environmental toxicants exposure, and Lung cancer risk. *Cancers (Basel)*. 2023 Sep 12;15(18):4525. doi: 10.3390/cancers15184525.
 24. Mohamed Elsalahaty, Afrah Salama, Thoria Diab, Medhat Ghazy, **Eman Toraih**, Rami El-Shazli. Unleash multifunctional role of miRNA biogenesis gene variants (XPO5*rs34324334 and RAN*rs14035) with susceptibility to hepatocellular carcinoma. *Journal of Personalized Medicine*. 2023 Jun 6;13(6):959.
 25. Hussein, M.H., Lauren Mueller, Lily Trinh, Peter P. Issa, Muhib Haidari, Mohamad Shama, **Eman Toraih**, Emad Kandil. Sexual Disparity and the Risk of Second Primary Thyroid Cancer: A Paradox. *Gland Surgery* 2023 Apr 28;12(4):432-441.
 26. **Eman Toraih**, Manal S. Fawzy, Bo Ning, Mourad Zerfaoui, Youssef Errami, Emmanuelle M. Ruiz, Mohammad Hussein, Muhib Haidari, Melyssa Bratton, Giovane G Tortelote, Sylvia Hilliard, Naris Nilubol, Jonathon O. Russell, Mohamed Ahmed Shama, Samir S. El-Dahr, Moroz Krzysztof, Ye Tony Hu, Emad Kandil. A miRNA-based prognostic model to trace thyroid cancer recurrence. *Cancers*. Sep 2022, 14(17), 4128; doi.org/10.3390/cancers14174128.
 27. Peter P. Issa, Mahmoud Omar, Yusef Buti, Mohamed Aboueisha, Mohammad Hussein, Ruhul Munshi, Muhib Haidari, Graham Blair, Chad P. Issa, Mohamed Shama, **Eman Toraih**, Emad Kandil, Hashimoto's Thyroiditis: A Protective Factor against Recurrence in BRAF-Wild Type Differentiated Thyroid Carcinoma. *Cancer* 2023 Apr 19;15(8):2371.
 28. Doaa Salman, Eman Mohammed, **Eman Toraih**, Alia Ellawindy. A Study of Plasma miR-23a Expression in Vitiligo Patients. *Suez Canal University Medical Journal* 26 (1), 1-10.
 29. Emad Kandil, Tyler A. Metz, Peter P. Issa, Mohamed Aboueisha, Mahmoud Omar, Abdallah S. Attia, Bert Chabot, Mohammad Hussein, Mohamed Shama, **Eman Toraih**. Performance of Afirma and Interpace Diagnostics Molecular Testing in Preoperative Diagnosis of Indeterminate Thyroid Nodules: A Single Center Retrospective Cohort Study. *Cancers* 2023, 15(7), 2098.
 30. Manal S. Fawzy, Afaf T. Ibrahim, Naglaa A. Bayomy, Amin K Makhdoom, Khalid S Alanazi, Abdulaziz M Alanazi, Abdulaziz M Mukhlef, **Eman A. Toraih**. MicroRNA-155 and disease-related immunohistochemical parameters in cutaneous melanoma. *Diagnostics* 2023, 13(6), 1205; doi.org/10.3390/diagnostics13061205.
 31. Hadeer Shosha, Hala M Ebaid, **Eman Ali Toraih**, Heba M. A. Abdelrazek, Ranwa Ahmed A. Elrayess. Effect of Monosodium Glutamate on Fetal Development and Progesterone Level in Pregnant albino rats. *Environmental Science and Pollution Research*. 30, 49779–49797 (2023). doi: 10.1007/s11356-023-25661-x.
 32. Zenat Khired, Shahad W. Kattan, A. Khuzaim Alzahrani, Ahmad J. Milebary, Mohammad H. Hussein, Safaa Qusti, Eida M. Alshammari, **Eman A. Toraih**, Manal S. Fawzy. Analysis of MIR27A (rs11671784) variant

- association with systemic lupus erythematosus. *Life*. 2023 Mar 5;13(3):701. doi: 10.3390/life13030701.
33. Sara A. Abdel Gaber, Amal H. Hamza; Mohamed A. Tantawy; **Eman A. Toraih**; Hanaa H. Ahmed. Germanium Dioxide Nanoparticles mitigate Biochemical and Molecular Changes Characterizing Alzheimer's Disease in Rats. *Pharmaceutics*. 2023 Apr 30;15(5):1386. doi: 10.3390/pharmaceutics15051386.
 34. Emmanuelle Ruiz, Emad Kandil, Solomon Alhassan, **Eman Toraih**, Youssef Errami, Zakaria Y. Abd Elmageed, Mourad Zerfaoui. An integrative multi-omics analysis of the molecular links between aging and aggressiveness in thyroid cancers. *Aging and disease*. 2023 Jun 1;14(3):992-1012. doi: 10.14336/AD.2022.1021.
 35. Rami M. Elshazli, **Eman A. Toraih**, Mohammad H. Hussein, Emmanuelle M. Ruiz, Emad Kandil, Manal S. Fawzy. Pan-cancer study on variants of canonical miRNA biogenesis pathway components: A pooled analysis. *Cancers (Basel)*. 2023 Jan 4;15(2):338. doi: 10.3390/cancers15020338.
 36. Afaf Ibrahim, Entsar Eladl, **Eman A. Toraih**, Manal S. Fawzy, Khaled Abdelwahab, Khaled Elnaghi, Ziad A. Emarah, Aly A. M. Shaalan, Ziad Ehab, Nahed A. Soliman. Prognostic value of BRAF, programmed cell death 1 (PD1), and PD ligand 1 (PDL1) protein expression in colorectal adenocarcinoma. *Diagnostics (Basel)*. 2023 Jan 9;13(2):237. doi: 10.3390/diagnostics13020237.
 37. Semran Thamer, Nicoletta Kijak, **Eman A. Toraih**, Ahmed Thabet, Amr Abdelgawad. Tendon Transfers to Restore Shoulder Function for Obstetrical Brachial Plexus Palsy: A Systematic Review of the Literature. *JBJS Rev*. 2023 Jan 6;11(1). doi: 10.2106/JBJS.RVW.22.00165.
 38. Peter P. Issa, Mohammad H. Hussein, Mahmoud Omar, Ruhul Munshi, Abdallah S. Attia, Yusef Buti, Mohamed Aboueisha, Mohamed Shama, **Eman A. Toraih**, Emad Kandil. Cardiovascular Health by Graves' Disease Management Modality - Surgery Versus Radioactive Iodine Versus Antithyroid Medications: A Network Meta-Analysis. *J Surg Res*. 2023 Mar; 283: 266-273. doi: 10.1016/j.jss.2022.10.043. Epub 2022 Nov 21.
 39. Noha M. Abd El-Fadeal, Alia Ellawindy, Mohammed Jeraiby, Safaa Qusti, Eida M. Alshammari, A. Khuzaim Alzahrani, Ziad Ehab, **Eman A. Toraih**, Manal S. Fawzy, Marwa Hussein Mohamed. HSP70 expression signature in renal cell carcinoma: A clinical and bioinformatic analysis approach. *Genes* 2023 Jan 30;14(2):355. doi: 10.3390/genes14020355.
 40. Peter P. Issa, Aaron L. Albuck, Eslam Hossam, Mohammad Hussein, Mohamed Aboueisha, Abdallah S. Attia, Mahmoud Omar, Seif Abdelrahman, Gehad Naser, Robert D. E. Clark, **Eman Toraih**, Emad Kandil. The Diagnostic Performance of Ultrasonography in the Evaluation of Extra Thyroidal Extension in Papillary Thyroid Carcinoma: A Systematic Review and Meta-Analysis. *Int J Mol Sci*. 2022 Dec 26;24(1):371.
 41. Salwa Faisal, Sherouk Abdelaal, Mohammed Jeraiby, Fatih Hassan Soliman Toaimah, Shahad W. Kattan, Abdelhady Ragab Abdel-Gawad, Eman Riad, **Eman A. Toraih**, Manal S. Fawzy, Ahmed Ibrahim. Diagnostic and prognostic risk assessment of heat shock protein HSPA1B rs2763979 variant in bronchial asthma. *Genes (Basel)*. 2022 Dec 16;13(12):2391.
 42. Abdelrahman Abushouk, Shahad Kattan, Hanadi Ahmedah, Eshrag Baothman, Sameerah Shaheen, **Eman Toraih**, Manal S. Fawzy. Expression and prognostic value of Oncolog non-coding RNA taurine-upregulated gene-1 in colon cancer. *Journal of Cancer Research and Therapeutics*. 2022 Dec;18(Supplement): S374-S382. doi: 10.4103/jcrt.JCRT_484_20.
 43. Eva Kruger, **Eman A. Toraih**, Mohammad H. Hussein, Shaimaa Shehata, Amany Waheed, Manal S. Fawzy, Emad Kandil. Thyroid Carcinoma: A Systematic Review for 25 Years of Environmental Risk Factor Studies. *Cancers* 2022 Dec 14;14(24):6172. doi: 10.3390/cancers14246172.
 44. Abdallah S. Attia, Ahmad Elnahla, Peter P. Issa, Ashraf Farhoud, Mohanad R. Youssef, Mohammad Hussein, Mohamed Aboueisha, Mohamed Ahmed Shama, **Eman Toraih**, Emad Kandil. Association of BRAF^{V600E} Mutation and The Aggressive Behavior of Papillary Thyroid Microcarcinoma: A Meta-Analysis of 33 studies. *Int J Mol Sci*. 2022 Dec 9;23(24):15626.
 45. Essam Al Ageeli, Samy M. Attallah, Marwa Hussein Mohamed, Amany I. Almars, Shahad W. Kattan, **Eman A. Toraih**, Manal S. Fawzy, Marwa K. Darwish. Migration/Differentiation-Associated LncRNA SENCRRs12420823*C/T: A novel gene variant can predict survival and recurrence in breast cancer women. *Genes*. Nov 2022, 13(11), 1996.
 46. Peter P. Issa, Mahmoud Omar, Chad P. Issa, Yusef Buti, Mohammad Hussein, Mohamed Aboueisha, Ali Abdelhady, Mohamed Shama, Grace S. Lee, **Eman Toraih**, Emad Kandil. Radiofrequency Ablation of Indeterminate Thyroid Nodules: The First North American Comparative Analysis. *International Journal of Molecular Sciences* 2022, 23(19), 11493.
 47. Tessa Lavorgna, Mohammad Hussein, Peter issa, **Eman Toraih**, Emad Kandil. Ultraviolet Light Exposure Decreases Thyroid Cancer Risk: A National Perspective. *Biomedicines* 2022, 10(10), 2452.
 48. **Eman A. Toraih**, Mohammad H. Hussein, Manal S. Fawzy, Emad Kandil. A Review and In Silico Analysis of Tissue and Exosomal Circular RNAs: Opportunities and Challenges in Thyroid Cancer. *Cancers* 2022, 14(19), 4728.
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BOOKS AND CHAPTER

1. Serum microRNA-21 level in breast cancer patients, Lambert Academic Publishing. Project-ID (128418) and the book's ISBN (978-3-659-79150-5).
2. Interleukin-1 Receptor Antagonist: Genetic Association with Knee Osteoarthritis, Lambert Academic Publishing. (ISBN: 978-3-659-40688-1).
3. Beta2-adrenergic receptor haplotypes in COPD, Lambert Academic Publishing (ISBN 978-3-659-80847-0).
4. Clinical Applications of Noncoding RNAs in Cancer. Chapter 7: Non-coding RNAs in Renal Cancer Patients Elsevier (ISBN: 9780128245507).

ARTICLES UNDER REVIEW

1. Peter P. Issa, Tyler A. Metz, Alexandra LaForteza, Mahmoud Omar, Katherine Cironi, Mohammad Hussein, Aaron L. Albuck, Mohamed Shama, Grace S. Lee, **Eman Toraih**, Emad Kandil. Risk of Malignancy Following Radiofrequency Ablation of Thyroid Nodules. Thyroid. Submitted 03.10.2023. (THY-2023-0117)
2. Aaron L. Albuck, Peter P. Issa, Mohammad Hussein, Isabel Riccio, Nicole Levine, Mahmoud Omar, Mohamed Shama, **Eman Toraih**, Emad Kandil. Diagnostic Accuracy of Thyroglobulin for Detecting Recurrence in Differentiated Thyroid Carcinoma Patients with Positive Neck Ultrasound After Thyroidectomy. Annals of Surgery.
3. Yaser Y. Bashumeel, Ahmed Abdelmaksoud, Mahmoud A. AbdAlnaeem, Mohammad Hussein, Mohamed Shama, **Eman Toraih**, Emad Kandil. Concomitant Thymectomy with Parathyroidectomy in Multiple Endocrine Neoplasia subtypes: Differential Impact on Post-Operative Outcomes. Annals of Surgery.
4. Mohammad Hussein, Julia McGee, Luu Alexandria, Michelle Tsang, Manal Fawzy, **Eman Toraih**, Emad Kandil. Income Disparities Have a Significant Impact on Thyroid Cancer Recurrence and Survival. Journal of Surgical Research. Submitted Jan 7.
5. **Eman A. Toraih**, Mohammad Hussein, Manal S. Malik, Alaa N. Malik, Manal S. Fawzy, Emad Kandil. Lost in Translation: Exploring the Exposome Link between Linguistic Isolation and Cancer Risk in the United States. Supportive Care in Cancer. Submitted Nov 10, 2023.
6. Mohammad Hussein, Eslam Hossam, Peter P Issa, Mahmoud Omar, Brandon Magazine, Ali Abdelhady, Alexandra Laforteza, Mohamed Shama, **Eman Toraih**, Emad Kandil. Evaluating the efficacy and safety of robotic versus conventional completion thyroidectomy: A 10-year experience. Surgical Innovation. Submitted Nov 15.
7. **Eman Toraih**, Alyssa Webster, Rami Elshazli, Dylan Pinion, Robert Clark, Peter Issa, Mohammad Hussein, Manal Fawzy, Emad Kandil. The Prevalence and Prognostic Implications of BRAF K601E Mutations in Thyroid Cancer. Head & Neck. Dec 4, 2023.
8. Essam Al Ageeli, Jawaher A. Abdulhakim, Mohammad H. Hussein, Maryam M. Alnoman, Samya S. Alkhalil, Peter P. Issa, Nader A. Nemr, Emad Kandil, Manal S. Fawzy, **Eman A. Toraih**. Watch out for Hepatitis C Virus in Patients with Melanoma: The First Comparative Analysis. Scientific Reports. Jan 12.
9. Madeleine B. Landau, Ahmed Abdelmaksoud, Mohammad H. Hussein, Jessan A. Jishu, Manal Fawzy, **Eman A. Toraih**, Emad Kandil. Reviving Ancient Therapeutics in Modern Medicine: An Immunological and biological review of cupping in the management of Hashimoto's Thyroiditis. Journal of Traditional Chinese Medicine. Jan

- 12.
10. Isabel Riccio, Alexandra Laforteza, Mohammad Hussein, Joshua Linhuber, Peter Issa, Jonathan Staav, Manal Fawzy, **Eman Toraih**, Emad Kandil. Diagnostic Utility of RAS Mutations in Cytologically Indeterminate Thyroid Nodules: A Systematic Review and Meta-Analysis. EXCLI (IF 4.6). Jan 11.
 11. **Eman Toraih**, Alyssa Webster, Eric Pineda, Dylan Pinion, Lily Baer, Emily Persons, Marcela Herrera, Mohammad Hussein, Emad Kandil. Radioactive Iodine Ablation Therapy Reduces Risk of Recurrent Disease in Pediatric Differentiated Thyroid Carcinoma. Surgical Oncology Jan 10.
 12. **Eman Toraih**, Mohammad H. Hussein, Jessan A. Jishu, Madeleine Landau, Ahmed Abdelmaksoud, Yaser Y. Bashumeel, Mahmoud A. AbdAlnaeem, Rithvik Vutukuri, Christine Robbie, Chelsea Matzko, Joshua Linhuber, Mohamed Shama, Salem I Noureldine, Emad Kandil. Initial versus staged thyroidectomy for differentiated thyroid cancer: A multi-dimensional comparative analysis of effectiveness and safety. Annals of Surgery. Jan 14.
 13. Madeleine B. Landau, Mohammad Hosny Hussein, Marcela Herrera, Joshua Linhuber, Jessan A Jishu, **Eman Toraih**, Emad Kandil. Propensity Analysis Reveals Survival Disparities Between T1a and T1b Well-Differentiated Thyroid Cancers Based on Surgery. Surgery Jan 14.
 14. Emily Persons, Mohammad Hussein, Marcela Herrera, Dylan Pinion, Alyssa Webster, Eric Pineda, Lily Baer, Manal Fawzy, **Eman Toraih**, Emad Kandil. Impact of Radioactive Iodine on Outcomes Among Pediatric and Adolescent Thyroid Cancer Patients: A SEER Database Analysis. Endocrine Practice Dec 22.
 15. Jessan A Jishu, Mohammad Hussein, Salmanfaizee Sadakkadulla, Solomon O Baah, Yaser Bashumeel, **Eman Toraih**, Emad Kandil. Optimal Surgical Treatment for T1 Medullary Thyroid Cancer. Endocrine-related cancer. Jan 4.
 16. **Eman Toraih**, Jessan A. Jishu, Mohammad Hussein, Manal Fawzy, Emad Kandil. Prognostic Indicators and Comparative Treatment Outcomes in High-Risk Thyroid Cancer Patients with Laryngotracheal Invasion. American Journal of Otolaryngology - Head and Neck Medicine and Surgery. Dec 28.
 17. Alexandra LaForteza, Peter P. Issa, Mohammad Hussein, Jacob Stuntz, Chad P. Issa, Isabel Riccio, Mohamed Shama, **Eman Toraih**, Emad Kandil. Treatment Outcomes Following Radiofrequency Ablation of Toxic Hyper Functioning Thyroid Nodules: A Case Series and Systematic Meta-Analysis. The Laryngoscope Nov 17, 2023.
 18. Aaron L. Albuck, Mohammad Hussein, Madeleine B. Landau, Peter P. Issa, Christina McCarthy, Alexandra LaForteza, Alexander C. Blum, Rabia Shahid, Rawan Zeineddine Mohamed Shama, **Eman Toraih**, Emad Kandil. Subtotal versus Total Parathyroidectomy for the Management of Tertiary Hyperparathyroidism: A Systematic Literature Review and Meta-Analysis of Optimal Surgical Modality. Head and Neck. Nov 11.
 19. Mohammad Hussein, **Eman Toraih**, Jessan A. Jishu, Tessa Lavorgna, Ryan Craig, Krzysztof Moroz, Emad Kandil. Leukemia Threats Following Radioactive Ablation Iodine for Thyroid Cancer. Oral Oncology. Nov 7, 2023.
 20. **Eman Toraih**, Manal S. Fawzy. Long-term survival outcomes of systemic therapy in patients with isolated and mixed medullary thyroid cancer. Heliyon. Submitted 9.28.2023.
 21. **Eman A. Toraih**, Mariam Elnaggar, Tessa Lavorgna, Ali Hussein, Forat Koreish, Mohammad Hussein, Manal S. Fawzy, Ahmed Toreih. The racial and sexual disparity in emergency department visits for sport-related spine fracture injuries: A NEISS database study (2011-2020). The Orthopaedic Journal of Sports Medicine. ID OJSM/2023/067625. 23 Sep 2023.
 22. Abdallah S. Mohamed, Afrah F. Salama, Magdy A. Sabaa, **Eman Toraih**, Rami ElShazli. GEMIN4 Variants: Risk Profiling, Bioinformatics and Dynamic Simulations Uncover Bladder Carcinoma Susceptibility. Archives of Medical Research. 9.18.2023. Revision submitted Jan 11.
 23. Rami Elshazli, Hamed M. Kassab; Afrah F. Salama; **Eman A. Toraih**; Kamal M. Okasha. The AGO1*rs595961 Variant: A Key Genetic Culprit in Bladder Carcinoma Risk, While AGO2*rs4961280 Remains Innocent. Gene Reports. Submitted 09.19.2023.
 24. Shymaa Ahmed Maher, Nouran B. AbdAllah, Essam Al Ageeli, Eman Riad, Shahad W. Kattan, Fatihi Hassan Soliman Toaimah, Wagdy Abdelfatah, Rasha Emad Badr, **Eman A. Toraih**, Manal S. Fawzy, Ahmed Ibrahim. Association of Interleukin-17RA gene Polymorphisms with Risk, Phenotype, and Comorbidities of Asthma in Children and Adolescents. Immunity, Inflammation and Disease. Manuscript ID: IID 3-2023-11-1220.
 25. Sharven Taghavi, Shariq S. Raza, Danielle Tatum, Cody Meyer, Jane Keating, Zoe Maher, Amy J. Goldberg, Grace Chang, Michelle Mendiola, Elliott R. Haut, Leah Tatebe, **Eman Toraih**, Christofer Anderson, Scott Ninokawa, Patrick Maluso, Tranexamic Acid and Pulmonary Complications: A Secondary Analysis of an East Multicenter Trial. Injury. Submitted 8.2.23.

INVITED SPEAKER (NATIONAL AND INTERNATIONAL)

- MMP9/miR-145 Ratio: Bridging Genomic and Immunological Variabilities in Thyroid Cancer. American Thyroid Association, Washington, DC, USA. September 31, 2023.
- B-Cell Lymphoma 2/MicroRNA-497 Gene Expression Ratio Predicts Metastasis In Colorectal Cancer: A Propensity-Matched Cohort Analysis. Louisiana Chapter ACS Annual Meeting Sunday, March 20, 2022. 10:50am-11:00am
- Pan-Cancer Study On Variants In Canonical Mirna Biogenesis Pathway Components: Awaken The Dormant Beast. Louisiana Chapter ACS Annual Meeting Saturday, March 19, 2022.
- Introduction to cancer bioinformatics. International Cancer Bioinformatics workshop (ICGEB), 5-7 March 2019,

CEMCM, SCU, Egypt.

- Visualization tools by R and Web browsers. International Cancer Bioinformatics workshop (ICGEB), 5-7 March 2019, CEMCM, SCU, Egypt.
- Bioinformatics: can do more than expected. (BEST ORAL PRESENTATION AWARD). Histology & Cell Biology Department Annual Scientific Meeting "Genetics from Bench to Beside", March 29, 2018, FOM-SCU, Egypt.
- OncomiR-196a2: the hidden maestro in cancer pathways. International Conference on Genomic Medicine held in February 22-24, 2017 in Baltimore, USA. (GeneMed-2017)
- Molecular biomarkers in hepatic differentiation and cancer. Recent Advances in Stem Cell Research Conference FOM-SCU – Egypt, 29-30 October, 2015.

SELECTED ORAL PRESENTATIONS

- Lost in Translation: Exploring the Exosome Link between Linguistic Isolation and Cancer Risk in the United States. American Muslim Medical Student Association, NY, USA, Nov 4, 2023. Presenter: Manal Malik (T2). Won first place (Best oral presentation).
- Completion Thyroidectomy: Robotic-Assisted is a Safe and Effective Approach. Abstract ID: 129326. AHNS 2023 Annual Meeting in Palais des congrès in Montréal, QC, Canada, July 8-12, 2023.
- Impact of Laterality on Adrenocortical carcinoma prognostics. 2023 ASCO Annual Meeting, Jun 2 - Jun 6, 2023.
- Comparison of Thyroid Surgery Following Radiofrequency Ablation and Upfront Thyroidectomy: A Propensity Score-matched Analysis of Surgical Outcomes. AAES Annual Meeting, Birmingham, Alabama Apr 29-May 1, 2023.
- Dimethyl malonate decreases succinate accumulation and preserves cardiac function in a swine model of haemorrhagic shock. 35th EAST Annual Scientific Assembly held January 11-15, 2022 in Austin, Texas
- The Racial And Sexual Disparity In Emergency Department Visits For Spine Fracture Injuries: A NEISS Database Study. Louisiana Chapter ACS Annual Meeting Saturday, March 19, 2022.
- Predicting the risk of a second primary thyroid cancer after surviving a malignancy: a latency trend analysis over four decades. Louisiana Chapter ACS Annual Meeting Sunday, March 20, 2022.
- The burden of readmission after discharge from necrotizing soft tissue infection. LA ACS 2022
- Social Exosome and the Tip of Iceberg in diagnosing Thyroid Cancer in Disproportionately Affected Communities: A US population-based Multi-Ethnic Study. The American Surgical Association 142nd Annual Meeting. April 7-9, 2022.
- A Propensity-Matched Analysis Of Tranexamic Acid And Development Of Pulmonary Complications In Trauma Patients: A Secondary Analysis Of An East Multicenter Trial Of Prehospital Procedures In Penetrating Trauma. Louisiana Chapter ACS Annual Meeting Saturday, March 19, 2022.
- The effectiveness of trauma scores on predicting mortality: a retrospective study at a level 1 trauma center. SESC 2022 Annual Meeting. Sunday, February 6, 2022 Southeastern Surgical Congress. Nashville, TN,
- A fast pass for motor vehicle accident patients: expediting time to operating room may help reduce their mortality. EAST 35th Annual Scientific Assembly. January 11-15, 2022 in Austin, Texas
- Head and neck cancer patients with cardiovascular comorbidity significantly impacts perioperative complications. LA ACS 2022
- Thyroid and parathyroid surgery outcomes in diabetic patients: a nationwide study. LA ACS 2022
- Trampoline injuries in children and adolescents: a jumping threat. LA ACS 2022
- Unleash multifunctional role of long non-coding RNAs biomarker panel in breast cancer: a predictor classification model. LA ACS 2022
- Association of cardiac biomarkers and comorbidities with increased mortality, severity, and cardiac injury in COVID-19 patients: a meta-regression and decision tree analysis. LA ACS 2022
- Multisystem inflammatory syndrome in pediatric COVID-19 patients: a meta-analysis. LA ACS 2022
- National perspective on hospital readmissions following adrenal surgery. LA ACS 2022
- Prognostic value of microRNA-27a and PPAR/RXR α signaling axis in patients with thyroid carcinoma. LA ACS 2022
- The burden of psychiatric co-morbidities in adrenalectomy patients. SESC Meeting, Aug 2021, Atlanta, GA.
- Preoperative diabetes complicates postsurgical recovery but not amplify readmission risk following pancreatic surgery. SESC 2021 Annual Meeting, Aug 21-24, 2021, InterContinental Buckhead, Atlanta, GA
- National perspective on hospital readmissions following adrenal surgery. SESC Meeting, Aug 2021, Atlanta, GA.
- Thoracic Air Leak Syndrome in COVID-19 Patients: An Emerging Complication. Society of Asian Academic Surgeons 6th Annual Meeting. (Abstract 52). 26 September 2021.
- Effect of Postsurgical Chronic Hypoparathyroidism on Morbidity and Mortality: A Meta-Analysis. Society of Asian Academic Surgeons 6th Annual Meeting. (Abstract 152) 25 Sep 2021.
- Diagnostic Accuracy of Ultrasound in Predicting Extrathyroidal Extension and its Relation to the Body Mass Index in North American Population. Society of Asian Academic Surgeons 6th Annual Meeting. (Abstract 148). 25 Sep 2021.
- The burden of readmission after discharge from necrotizing soft tissue infection. 34th EAST Annual Scientific Assembly. January 12-16, 2021
- Diagnostic Accuracy of Ultrasound in Predicting Extrathyroidal Extension and its Relation to Body Mass Index in North America. American Association of Endocrine Surgeons. Abstract ID: 163. March 5-7, 2021
- Delayed drop of intraoperative parathyroid hormone over time in elderly population with primary hyperparathyroidism. American Association of Endocrine Surgeons. Abstract ID: 167. March 5-7, 2021

- Thyroid lobectomy as a cost-effective approach in low-risk papillary thyroid cancer versus Active Surveillance. American Association of Endocrine Surgeons. Abstract ID: 157. March 5-7, 2021
- The Burden of Hospital Readmission for Firearm Injuries Among Suicide Attempts and Other Shootings. Academic Surgical Congress. Abstract ID: ASC20210190. February 2021.
- Vitamin D insufficiency as a potential culprit in COVID-19 patients. SESC 2021 Annual Meeting, August 22, 2021.
- Firearm homicide mortality is influenced by structural racism in US metropolitan areas. 34th EAST Annual Scientific Assembly scheduled for January 12-16, 2021
- Trampoline injuries in children and adolescents: a jumping threat. Panamerican Congress of Trauma, Critical Care and Emergency Surgery on 21 July 2020 ILBOG-22
- Pay Attention to Psychiatric Comorbidities with Adrenal Surgeries. American college of surgeon: Scientific Forum at Chicago Congress 2020 in Chicago, IL. 4-7 October
- Surgical Stabilization Improves Survival Without Increasing Readmission After Traumatic Rib Fractures. American college of surgeon: Scientific Forum at Chicago Congress 2020 in Chicago, IL. 4-7 October
- Traumatic Iatrogenic Injuries in Cardiopulmonary Resuscitation: A Meta-Analysis. American college of surgeon: Scientific Forum at Chicago Congress 2020 in Chicago, IL. 4-7 October. Abstract ID: ASC20210670
- Trends and Burden of Firearm Injuries Among Children and Adolescents: A National Perspective. American college of surgeon: Scientific Forum at Chicago Congress 2020 in Chicago, IL. 4-7 October. Abstract ID: ASC20211348
- Location of Blood products and the Impact of Time to Initiation of Massive Transfusion Protocol. American college of surgeon: Scientific Forum at Chicago Congress 2020 in Chicago, IL. 4-7 October. Abstract ID: 930251
- Differentially expressed gene signatures of ulcerative colitis determine novel regulators and predict response to biologic therapy. Crohn's & Colitis Congress 21 Oct. 2020.
- Chemoembolization versus Radioembolization for Neuroendocrine Liver Metastases: A Meta-analysis Comparing Efficacy and Clinical Outcomes. American College of Surgeon: Scientific Forum, Oct 2020 in Chicago, IL. 4-7 October
- Impact of body mass index and weight change on developing thyroid cancer: A Meta-Analysis study. American college of surgeon: Scientific Forum at Chicago Congress 2020 in Chicago, IL. 4-7 October.
- Are Legally Purchased Guns to Blame for Overall Firearm Mortality? A State-Level Analysis of the Association Between Firearm Retail Availability and Firearm Mortality. 79th Annual Meeting of AAST, 2020.
- LncRNA H19, but not miRNA-326, is over-expressed and predicts survival in glioblastoma. Recent Advances in Molecular and Cellular medicine Conference FOM-SCU – Egypt, 26-27 December 2018.
- Prognostic value of reprogramming gene LINC-ROR in renal cell carcinoma. Recent Advances in Molecular and Cellular Medicine Conference FOM-SCU – Egypt, 26-27 December 2018.
- Association of vitamin D and Retinoid X Receptors expression and Vitamin D Binding Protein variants with bone density in Thalassemia Children. 23rd Congress of European Hematology Ass, Jun, 2018, Stockholm, Sweden.
- OncomiR-196a2 targetome network analysis in solid tumors. (BEST ORAL PRESENTATION AWARD). Young youth conference 2017, April 8-9, 2017 in Suez Canal University, Egypt.
- miRNA-34a and targets interplay in renal cell carcinoma pathway. Young youth conference 2017, April 29-30, 2017 in Suez Canal University, Egypt.
- Serum microRNA-21: a promising diagnostic and prognostic biomarker in Egyptian breast cancer patients. The 13th Asian European workshop in inborn errors of metabolism (AEWIEM) – 3rd human genetics and genome research division international conference – NRC, Cairo, Egypt, 18-20 January, 2015.
- Interleukin-1 Receptor Antagonist Gene Polymorphism in Patients with Knee Osteoarthritis. The Biochemistry and Molecular Biology. Cairo, Egypt, 2007.

SELECTED POSTER PRESENTATIONS

- Comparative Survival Outcomes of Total Thyroidectomy vs. Lobectomy/Subtotal in T1 Medullary Thyroid Cancer. AAESin Dallas, Texas, April 20-22, 2024. Poster presentation. (Presenter: Jessan Jishue).
- Unraveling Implications of RAS Mutations in Thyroid Cancer: HuGE Analysis. AAES in Dallas, Texas, April 20-22, 2024. Poster presentation. (Presenter: Eman Toraih).
- Recurrent or Persistent Differentiated Thyroid Carcinoma in the Pediatric Population after Radioactive Iodine Treatment: A Systematic Review and Meta-Analysis. 72nd LA-ACS Annual Meeting in April 5-7, 2024, New Orleans, LA. Poster presentation. (Presenter: Eric Pineda).
- Elucidating the Link Between Thyroid Cancer and Mercury Exposure. 72nd LA-ACS Annual Meeting in April 5-7, 2024, New Orleans, LA. Poster presentation. (Presenter: Alyssa Webster).
- Prognostic Implications of BRAF K601E Mutations in Thyroid Cancer. 72nd LA-ACS Annual Meeting in April 5-7, 2024, New Orleans, LA. Poster presentation. (Presenter: Dylan Pinion).
- Comparative Survival Outcomes of Total Thyroidectomy vs. Lobectomy/Subtotal in T1 Medullary Thyroid Cancer. 72nd LA-ACS Annual Meeting in April 5-7, 2024, New Orleans, LA. Poster presentation. (Presenter: Jessan Jishue).
- Navigating Choices: Determinants and Outcomes of Surgery Refusal in Thyroid Cancer Patients. 72nd LA-ACS Annual Meeting in April 5-7, 2024, New Orleans, LA. Poster presentation. (Presenter: Marie Comeaux).
- Assessment of Thyroid Dysfunction Among Pregnant Women With Pre-Existing Diabetes Mellitus or Gestational Diabetes Mellitus. 72nd LA-ACS Annual Meeting in April 5-7, 2024, New Orleans, LA. Poster presentation. (Presenter: Yaser Bushmel).

- Bilateral Nodule Radiofrequency Ablation in a Single Setting: First Reported Case Series. 72nd LA-ACS Annual Meeting in April 5-7, 2024, New Orleans, LA. Poster presentation. (Presenter: Peter Issa).
- Subtotal versus Total Parathyroidectomy for the Management of Tertiary Hyperparathyroidism. 72nd LA-ACS Annual Meeting in April 5-7, 2024, New Orleans, LA. Poster presentation. (Presenter: Aaron Albuck).
- Leukemia Threats Following Radioactive Ablation Iodine for Thyroid Cancer. 72nd LA-ACS Annual Meeting in April 5-7, 2024, New Orleans, LA. Poster presentation. (Presenter: Mohammad Hussein).
- Navigating Diabetes in Endocrine Surgeries: Outcomes and Economic Implications. 72nd LA-ACS Annual Meeting in April 5-7, 2024, New Orleans, LA. Poster presentation. (Presenter: Matthew McDermut).
- The Prognostic Value of RAS Mutations in Thyroid Cancer: A Meta-Analysis. 72nd LA-ACS Annual Meeting in April 5-7, 2024, New Orleans, LA. Poster presentation. (Presenter: Isabel Riccio).
- Thyroid Carcinoma: A Review for 25 Years of Environmental Risk Factors Studies. TRICS 2023 Health Sciences 44987. New Orleans, LA, USA
- Type 2 Diabetes and Thyroid Cancer: Synergized Risk with Rising Air Pollution. TRICS 2023 Health Sciences 44987. New Orleans, LA, USA
- Cardiovascular health by Graves' disease management modality - surgery versus radioactive iodine versus anti-thyroid medications. TRICS 2023 Health Sciences 44987. New Orleans, LA, USA
- Social Exposome and the Tip of Iceberg in diagnosing Thyroid Cancer in Disproportionately Affected Communities: A US population-based Multi-Ethnic Study. American Association of Endocrine Surgeons (AAES) in Birmingham, Alabama from April 29 - May 1, 2023.
- Be Patient – Intraoperative Parathyroid Hormone Drop Following Parathyroidectomy in Patients with Primary Hyperparathyroidism. AAES Annual Meeting in Birmingham, Alabama from Apr 29 - May 1, 2023.
- Be Patient – Intraoperative Parathyroid Hormone Drop Following Parathyroidectomy in Patients with Primary Hyperparathyroidism. AHNS 2023 Annual Meeting in Palais des congrès in Montréal, QC, Canada, July 8-12.
- Molecular markers and drivers of aging-dependent aggressiveness in thyroid cancers. Abstract #2 TRICS 2023 Health Sciences Posters. 44987. New Orleans, LA, USA
- Complex SAGA in targeted therapies. Abstract #26 TRICS 2023 Health Sciences. 44987. New Orleans, LA, USA
- Mesenchymal Stem Cell Markers and mir-155 in Cutaneous Melanoma. TRICS 2023 Health Sciences Posters. 44987. New Orleans, LA, USA
- Recommend with caution: a meta-analysis investigating papillary thyroid carcinoma tumor progression under active surveillance. Abstract #56 TRICS 2023 Health Sciences Posters. 44987. New Orleans, LA, USA
- Diagnostic and Prognostic Performance of Liquid Biopsy-Derived Exosomal mircoRNAs in Thyroid Cancer Patients: A systemic Review. Abstract #4 2023 Health Sciences Posters. 44987. New Orleans, LA, USA
- Sheep in Wolf Skin - Papillary Thyroid Cancer and RAS Alterations using The Cancer Genome Atlas. Abstract #28 TRICS 2023 Health Sciences Posters. 44987. New Orleans, LA, USA
- GLUT1 and ASCT2 Protein Expression in Papillary Thyroid Patients and Relation to Hepatitis C Virus. Abstract #55 TRICS 2023 Health Sciences Posters. 44987. New Orleans, LA, USA
- Mortality timeline benchmarks for hemorrhage control in non-compressible torso hemorrhage: decision tree model. EAST 35th Annual Scientific Assembly. January 11-15, 2022 in Austin, Texas
- Analysis of Police Transport in An Eastern Association for the Surgery of Trauma Multicenter Trial Examining Pre-hospital Procedures in Penetrating Trauma Patients. 35th Annual Scientific Assembly. January, 2022, Austin, Texas
- A propensity-matched analysis of tranexamic acid and the development of acute respiratory distress syndrome in trauma patients. 44th Annual Conference on Shock. 2022.
- Ultraviolet Ambient Exposure Decreases Thyroid Cancer Risk in Black Populations: A Multiethnic Study. SMA's 2nd Annual Physicians-in-Training Leadership Conference. February 11-13, 2022
- Elevated K/iCa ratio is a predictor of mortality in patients with severe hemorrhage: a decision tree analysis. 44th Annual Conference on Shock. 2022.
- Social Exposome & the Tip of Iceberg in Diagnosing Thyroid Cancer: A US Population-Based Multi-Ethnic Study. ACS clinical congress Oct 16-20 Oct 2022 San Diego, CA.
- Factors Predicting Progression Of Papillary Thyroid Carcinoma Under Active Surveillance; A Systematic Review and Meta-analysis. ACS clinical congress Oct 16-20 Oct 2022 San Diego, CA.
- Predicting the risk of second primary thyroid cancer after surviving a malignancy: a latency trend analysis over four decades. American Thyroid Association Oct 2022, Canada
- Sexual Disparities In The Risk Of A Second Primary Thyroid Cancer After Surviving A Malignancy: A Paradoxical Threat. American Thyroid Association Oct 2022, Canada
- Ultraviolet Ambient Exposure Decreases Thyroid Cancer Risk in Black Populations: A Multiethnic Study. ATA Oct 2022, Canada
- Social Exposome and the Tip of Iceberg in diagnosing Thyroid Cancer in Disproportionately Affected Communities: A US population-based Multiethnic Study. American Thyroid Association Oct 2022, Canada
- Chromatin accessibility of the host gene releases miR-34a targeting the thyroid cancer pathway. Society of Asian Academic Surgeons Annual Meeting 2022, 16 - 19 September 2022, Hawaii
- Dimethyl malonate decreases succinate accumulation and preserves cardiac function in a swine model of hemorrhagic shock. 44th Annual Conference on Shock. 2022.

- Asthma and COVID-19: different entities, same outcome? A meta-analysis of 107,983 patients. LA ACS 2022
- Hidden in plain sight: the effects of BCG vaccination in COVID-19 pandemic. LA ACS 2022
- Comparison of Survivor Population of Emergency Department Performed REBOA versus Open Aortic Occlusion. American Collage of Surgery meeting 17th Annual Academic Surgical Congress. February 1-3, 2022. Orlando, FL
- Timeline Benchmarks for Hemorrhage Control in Non-Compressible Torso Hemorrhage. ASC 17th Annual Academic Surgical Congress. February 1-3, 2022. Orlando, FL
- Acute Respiratory Distress Syndrome in Trauma patients: Linked culprits. ASC 17th Annual Academic Surgical Congress. February 1-3, 2022. Orlando, FL
- Multicenter investigation of impact of police transport vs Advanced Life Support transport on outcomes in urban penetrating trauma. ASC 17th Annual Academic Surgical Congress. February 1-3, 2022. Orlando, FL
- When Minority Patients are the Majority: A Unique Study of Implicit Bias in Trauma Surgery. ASC 17th Annual Academic Surgical Congress. February 1-3, 2022. Orlando, FL
- One score rules all: NISS is superior in predicting penetrating trauma mortality. ASC 17th Annual Academic Surgical Congress. February 1-3, 2022. Orlando, FL
- Fast Pass for Motor Vehicle Accident Patients: Expediting Time to Surgery Reduces Their Mortality. ASC 17th Annual Academic Surgical Congress. February 1-3, 2022. Orlando, FL
- Time for implementation of advanced resuscitative care: A TQIP review of EMS contact time and total hemorrhage control time. ASC 17th Annual Academic Surgical Congress. February 1-3, 2022. Orlando, FL
- Immediate Lymphatic Reconstruction Lowers Lymphedema Incidence in Axillary and Inguinal Lymphadenectomy ASPS Plastic Surgery: The Meeting 2021 (Atlanta)
- MicroRNA-based risk score for predicting tumor progression following radioactive iodine ablation in intermediate-risk well-differentiated thyroid cancer patients: A propensity-score matched analysis. September 30 – October 3, 2021, 90th Annual Meeting of the ATA.
- State Gun Law Grades Have Not Impacted Mass Shooting Event Incidence; An 8-Year Analysis. Southern Surgical Association. December 2021
- Circulating novel markers (lncRNA MIAT and MALAT1) in coronary artery disease. Histology & Cell Biology Department Annual Scientific Meeting "Genetics from Bench to Beside", March 29, 2018, FOM-SCU, Egypt
- Reverse hybridization multiplex PCR to identify atherosclerotic and thrombotic genetic determinants in coronary artery disease. (BEST POSTER PRESENTATION AWARD). Histology & Cell Biology Department Annual Scientific Meeting "Genetics from Bench to Beside", March 29, 2018, FOM-SCU, Egypt.
- Precursor miR-499a Variant but not miR-196a2 is Associated with Rheumatoid Arthritis Susceptibility in an Egyptian population. Histology & Cell Biology Department Annual Scientific Meeting "Genetics from Bench to Beside", March 29, 2018, FOM-SCU, Egypt
- Structure and functional impact of seed region variant in miR-499 gene family in bronchial asthma. Histology & Cell Biology Department Annual Scientific Meeting "Genetics from Bench to Beside", March 29, 2018, FOM-SCU, Egypt
- MicroRNA-targets cross-talks: key players in glioblastoma multiforme. International Conference on Genomic Medicine in February 22-24, 2017 in Baltimore, USA
- miRNA-34a: a key regulator in the hallmarks of renal cell carcinoma. International Conference on Genomic Medicine in February 22-24, 2017 in Baltimore, USA
- Longevity-related genes transcriptomic signature in glioblastoma multiforme. Young youth conference 2017, April 29-30, 2017 in Suez Canal University, Egypt.
- MicroRNA-196a2 Variant as a potential pharmacogenetic marker for bronchodilator response in COPD. Third annual conference of the Medical Biochemistry, BIOCHEM 2016 in March 12, 1016 Cairo, Egypt.
- Combination of Liraglutide and Glutamine increases expression of sodium-dependent neutral amino acid transporter-2 and mitigate apoptosis in islets of langerhan in diabetic rats. (BEST POSTER PRESENTATION AWARD). The first annual symposium, Department of Pharmacology and Toxicology, Faculty of Pharmacy - May, 1016 Ismailia, Egypt.
- Could MicroRNA-196A2 Variant Pave the Road Towards Personalized Therapy in COPD? The first annual symposium, Department of Pharmacology and Toxicology – Faculty of Pharmacy - in May 9, 1016 Ismailia, Egypt.
- Association of ATP-Binding Cassette Transporter A1 R219K and I883M haplotypes with obesity in Children. International Conference on Nucleic Acids: Biology, Human health and Diseases, Aug 2016 New Orleans, LA, USA.
- A passenger strand variant in miR-196a2 contributes to asthma severity in children and adolescents. International Conference on Nucleic Acids: Biology, Human health and Diseases, Aug 04-05, 2016 New Orleans, LA, USA.
- Interleukin-1 Receptor Antagonist Gene Polymorphism in Egyptian Patients with Knee Osteoarthritis. The American Society of Human Genetics, at the ASHG 2008 Annual Meeting in Philadelphia, USA, Nov 11 - 15, 2008.

HONORS AND AWARDS

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| 2023 | Pilot Grant Award Tulane University |
| 2022 | Promising Research Direction for Future Potential Award, Research Symposium 2022, Pine Biotech |
| 2021 | International Publication Award, Suez Canal University |
| 2021 | American Thyroid Association award |
| 2021 | LACaTS Pilot Grant, Tulane University |
| 2020 | Carol Lavin Bernick Faculty award, Tulane University |

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| 2019 | International Publication Award, Suez Canal University |
| 2018 | International Publication Award, Suez Canal University |
| 2017 | Oral presentation award, 4 th Young Researcher Conference, SCU |
| 2017 | International Publication Award, Suez Canal University |
| 2016 | Best poster award, Annual symposium, Department of Pharmacology and Toxicology |
| 2016 | International Publication Award, Suez Canal University |
| 2015 | Director of Molecular Laboratory, the center of Excellence of Molecular and Cellular Medicine |
| 2015 | Re-accreditation award from the national Authority for Quality Assurance and Accreditation of Education |
| 2015 | Suez Canal University's President award, Outstanding PhD thesis with an excellent degree |
| 2008 | The Egyptian Medical Syndicate award, Excellent degree in Master |
| 2002 | Suez Canal University's President award, First on Batch with honor degree |
| 1997 | Governor's Special Recognition, Ismailia City |

UNIVERSITY COMMITTEES

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| Institutional Review Board (IRB) Committee, Tulane University | Apr 2023 |
| Equality, Diversity, and Inclusion (EDI) Committee, Department of Surgery, Tulane University | Jun 2022 |
| Wellness Committee, Tulane University | Jun 2022 |

MEMBERSHIPS AND SOCIETIES

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| Eastern Association for the Surgery of Trauma | 2021-present |
| American Thyroid Association | 2020-present |

NATIONAL AND INTERNATIONAL COMMITTEES MEMBERS

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| Tulane Group on Women in Medicine and Science (GWIMS) member | Jun 2023 |
| EAST Association: Manuscript & Literature Review Committee member | Jan 2022 |
| American Thyroid Association: Research Committee member | Oct 2021 |

EDITORIAL AND ADVISORY EXPERIENCE

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| Editorial Boards | Initiated special issues in Diagnostics and Cancers: "The Role of Long Non-Coding RNAs in Molecular Diagnosis of Diseases", "Novelty in Endocrine Cancer – Technology, Techniques, & Therapy", and "Fibroblast phenotype transition in allergy: Advanced molecular therapeutic targets". | 2021-2023 |
| Scientific Advisory Board | Scientific Advisory Board Member: e.g. Cancers, MicroRNA, Blood Transfusion & Disorders, Cancer Medicine, Frontiers in Surgery, Annals of Surgery, American Journal of Translational Research, Tumor Biology, Cancer Research and Therapeutics, British Journal of Mathematics & Computer Science, Scientific Journal of Immunology & Immunotherapy, Future Oncology, Current Pharmaceutical Design, Cancer Reports, Biological research, International Journal of Biochemistry Research & Review, OncoTargets and Therapy, J of Biomedical and molecular toxicology, International J of Biological markers, J of Clinical Laboratory Analysis, Surgery, Canadian Journal of Infectious Diseases and Medical Microbiology, Clinical and Experimental Rheumatology, Journal of Haematology, European Journal of Histochemistry, Blood Transfusion & Disorders, International Journal of Surgery and Medicine, Journal of Applied Life Sciences International, Recent patents on biomarkers, Journal of International Research in Medical and Pharmaceutical Sciences, Journal of Global Agriculture and Ecology, Oxidative Medicine and Cellular Longevity, Journal of Advances in Biology & Biotechnology, BioScience Trends, Spine, Clinical and Experimental Rheumatology, British Journal of Medicine and Medical Research, Cellular Physiology and Biochemistry, Biomedical and Environmental Sciences, Annual Research & Review in Biology, Tumour biology, Innate immunity, Lung, Epigenomics, Cancer Medicine, Journal of Clinical Laboratory Analysis, Journal of Medical Virology, Bioscience reports, Frontiers in Surgery, Genetics Research, Cancer letters, Ecological Genetics and Genomics | 2015-2023 |
| Grant Review | NIH Early Career Reviewer, Center for Scientific Review: Reviewed for Genomics, Computational Biology and Technologies study section and Advancing Translational Sciences Loan Repayment Program | 2021-2022 |
| Research Reviewer | American Thyroid Association Research Grants Annual Plastics Resident Research Day Reviewer EAST, Manuscript & Literature Review Young Researchers Conference Reviewer Best Student Projects Reviewer Medical Scientific Committee Member | 2022-2023 May 2022 2022-2023 2016-2019 2017-2018 2015-2017 |

MENTORSHIP FOR MEDICAL STUDENTS

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| Funded grants | DeBakey Scholars Program summer \$2,000: Jishu Jessan | 2023-2024 |
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| | Five students received the ATA Ridgway Thyroid Trainee Grant Program | 2023 |
| Fellowship | ASPIRE Summer Fellowship program: | 2022-2023 |
| Mentorship | Mentor for women in medicine program in GWIMS (Accepted, not started mentoring) | 2023 |
| | Association of Women Surgeons Mentorship Opportunity for TUSOM students | 2021 |
| | Leading Clinical research team of Dr Kandil's Lab and supervising over 70 students spanning T1-T4, residents, postdoc from Tulane, LSU, Oschner, and oversees. | 2020-2023 |
| Presentations | Over 50 posters and 10 oral presentations including TRICS 2023 and American thyroid Association 2023 Annual meeting | 2022-2023 |
| Awards | Three students outstanding trainee awards (ATA) | Sep 2023 |
| | Best oral presentation (Manal Malik, T2) first place | Nov 2023 |

LANGUAGE

Arabic (Native)

English (Fluent)

French (Intermediate)

VOLUNTEER ACIVITIES AND COMMUNITY SERVICE

- **Tutoring/Mentoring:** Provided Arabic language instruction to children at a Sunday school in Kenner, fostering cultural understanding and linguistic skills.
- **Local Food Bank:** Contributed to efforts against food insecurity and poverty by organizing and packing food items at a local food bank.
- **Homeless Shelters:** Assisted in meal service and donation sorting, helping to meet the basic needs of individuals experiencing homelessness.
- **School Bag Drive Organizer:** Spearheaded a drive to distribute essential school supplies to students ahead of the new academic year, promoting educational accessibility.
- **Healthcare and Elderly Care:** Authored a grant proposal to secure funding for medical chaplain training programs under the Jefferson Islamic Association, enhancing spiritual support in healthcare.
- **Environmental Projects:** Participated in and organized environmental cleanup events and recycling programs, which included rowing a canoe in local ponds to collect debris and ensure its safe disposal.
- **Animal Shelter Welfare:** Read stories to shelter pets, fostering a calming environment and promoting their socialization.
- **Community Events:** Actively participated in and organized community events, such as cultural festivals, contributing to community engagement and cultural exchange, including one single event in Department of Surgery last summer.