

Zack Abd Elmageed, MS, PhD
Assistant Professor-Tenure-Track
Department of Pharmaceutical Sciences
Texas A&M Health Science Center, Rangel College of Pharmacy

PROFESSIONAL INFORMATION

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EDUCATION AND TRAINING

- Postdoctoral training , Urology Department ,Tulane University School of Medicine, USA, 2009 to 2011
- Postdoctoral training, Division of Endocrinology , Johns Hopkins School of Medicine, USA, 2008-2009
- Postdoctoral training, Pathology Department, LSU Health Sciences Center, School of Medicine, USA, 2006-2008
- Ph.D. Degree in Biology and Biochemistry, Helwan University, 2004
- Master of Science in Physiology, Helwan University, 1999
- Bachelor of Science with Honor, Biology, Cairo University, 1995

PERSONAL STATEMENT

- With more than 10 years of teaching experience, I have taught medical, biomedical and basic sciences for under- and postgraduate students in multiple disciplines. I have taught human Physiology, Anatomy, Biochemistry, Cell Biology and Molecular Biology courses.
- During my research training, I had a very good opportunity to join prostate cancer research group which was focusing on the cross-talk between stem cells and prostate cancer progression. This was suggested by the release of exosomes which alter the steroidal hormone receptor signaling.
- With a current NIH funding, my research focus is on the role of microvesicles “exosomes” in altering the tumor microenvironment and dysregulating multiple metabolic pathways for promoting tumor progression and metastasis in patients with prostate cancer and melanoma.
- In our basic and translational research, we utilizing molecular and cell biology and therapeutic approaches using *in vitro* and *in vivo* mouse model in addition to human specimens.
- I have published over 47 articles in peer-reviewed journals in basic and translational sciences, active member in several scientific associations and serving as *ad hoc* reviewer in a large number of peer-reviewed journals. I have mentored over 14 Master and PhD students in the field of cancer signaling, biomarkers and pharmacology and managed large scale trainees as well as overseeing many research projects.
- My objective is to study the underlying molecular mechanisms by which tumor cells acquire resistance and aggressive behavior by transferring specific cargo of Exosomes to their target cells using combination of *in vitro* and *in vivo* approaches and patient samples. My long term goal is to create mechanism-derived treatment strategies for cancer disease.

PROFESSIONAL APPOINTMENTS

2016-date Assistant Professor (Tenure-Track), Department of Pharmaceutical Sciences, Rangel College of

Pharmacy, Texas A&M Health Science Center, College Station/Kingsville, TX, USA

2015-2016 Assistant Professor, Departments of Surgery and Otolaryngology, Tulane University School of Medicine, New Orleans, LA, USA

2015-2016 Member, Tulane Biomedical Sciences (BMS) graduate program, Tulane University.

2014-2016 Director of Oncology Research, Surgery and Otolaryngology, Tulane University School of Medicine, New Orleans, LA, USA

2014-2015 Research Scientist, Departments of Surgery and Otolaryngology, Tulane University School of Medicine, New Orleans, LA, USA

2012-current Member, Tulane Cancer Center, Cell Signaling Program, Tulane Cancer Center, Tulane University School of Medicine, New Orleans, LA, USA

2012-2014 Research Instructor, Department of Urology, Tulane University School of Medicine, New Orleans, LA, USA

2004-2008 Lecturer of Physiology, Department of Biology, Faculty of Science, Helwan University

2000-2004 Instructor of Biology, Department of Biology, Faculty of Science, Helwan University

1996-1999 Teaching Assistant, Department of Biology, Faculty of Science, Helwan University

1995-1996 Research Assistant, Department of Molecular Biology, Division of Genetic Engineering, National Research Centre (NRC), Cairo

GRANTS

Active

- **R21CA194750.** The role of exRNA in health disparity of prostate cancer. **Abd-Elmageed ZY (PI).** Funding: 2 years. **07/01/2015-06/30/2017.**
The objective for this study is to elucidate the pro-oncogenic activity of exosomes-associated microRNAs and their clinical use as a surrogate in health disparity of prostate cancer.

Completed

- **Louisiana Clinical & Translational Science Center (LaCaTS) Pilot Grant Round I.** Title: Discovering the Role of Putative MicroRNAs in Prostate Tumorigenesis. **Abd Elmageed ZY (PI).** Funding: **03/29/2013 to 04/28/2014.**
This study focused on discovering the role of new identified upregulated microRNAs in the exosomes released from prostate cancer cells and investigating their contribution to tumorigenesis of prostate cancer.

PATENTS

- *In vitro* and *in vivo* Tetracycline inducible fluorescently-tagged protein expression system. Inventor: A Ouhtit (PI), **Abd Elmageed, ZY (Co-PI)**, M Zerfauoi (Co-PI). Invention serial number: 60/956,437. LSU Health Sciences Center, LA, 2010.

HONORS AND AWARDS

- 2016 Scientific Judge in the AACR Career Development and Mentoring Committee during the Eleventh Annual AACR Undergraduate Student Caucus and Poster Competition. April 16, 2016, New Orleans, LA.
- 2016 Oral presentation in The American Association of Endocrine Surgeons. Baltimore, MD. April 09-12, 2016. Title: Synergistic effects of BRAF and proteasome inhibitors for treating aggressive thyroid cancer. Tsumagari K, **Abd Elmageed Z.** et al.

- 2015 R21 NCI/NIH Award. Title: The role of exRNA in health disparity of prostate cancer (PI: **Abd-Elmageed ZY**)
- 2013 Louisiana Clinical & Translational Science Center (LaCaTS) for translational research (PI: **Abd-Elmageed ZY**). Title: Discovering the role of putative microRNAs in prostate tumorigenesis.
- 2013 National Center for Advancing Translational Sciences (NCATS) Award (\$4.2 million grant). Abdel-Mageed AB (PI), Mondal D (Co-I) and **Abd Elmageed ZY** (Co-I).
- 2013 Oral presentation-Academic Surgical Congress, February 4-7th. Title: Simultaneous suppression of the MAP kinase and PI3K/Akt pathways in aggressive thyroid cancer. Li X, **Abd Elmageed ZY**, Kandil E.
- 2013 Oral presentation-Academic Surgical Congress, February 4-7th. Title: CD146-Latexin crosstalk and their potential role in thyroid tumorigenesis. **Abd Elmageed ZY** et al.
- 2013 One of the top 10 abstracts at the 19th Annual Fall Scientific Meeting of the Sexual Medicine Society of North America. The award resulted in an oral presentation. See Invited Talks. Oral presentation and Title: Early combined treatment with Avanafil and adipose tissue-derived stem cells promotes recovery of erectile function in a rat model of postprostatectomy induced erectile dysfunction. Gokce A, **Abd Elmageed ZY**, et al.
- 2011 First place Award-Poster presentation-American Association of Head and Neck Surgery, Chicago
- 2006 Fellowship Award for Postdoctoral training- Ministry of Higher Education, Cairo.
- 2005 Teaching Faculty Award-Faculty of Science-Helwan University

AFFILIATIONS

- 2010-current American Association for the Advancement of Science (AAAS)
- 2009-current American Association for Cancer Research (AACR)
- 2008 to 2011 American Heart Association (AHA)
- 2008 to 2011 American Physiological Society (APS)

EDITORIAL BOARDS AND JOURNAL REVIEWER

Editorial Board Member

1. *Scientific Reports*
2. *Molecular Diagnostics (Frontiers in Molecular Biosciences)*
3. *Journal of Prostate Cancer*
4. *Journal of Thyroid Cancer*
5. *Austin Biomarkers & Diagnosis*
6. *JSM Biomarkers*

Ad Hoc Reviewer

1. *Cancer Research*
2. *BMC Genomics*
3. *Epigenetics*
4. *Tumor Biology*
5. *Andrology*
6. *Cancer Biology and Therapy*
7. *Oxidative Medicine and Cellular Longevity*
8. *Integrative Biology*
9. *Molecular Biosystems*
10. *Metallomics*

11. *World J. Surgical Research*
12. *Biomaterials Science*
13. *Clinical and Experimental Pharmacology and Physiology*
14. *World Journal of Gastroenterology*
15. *J. Nanoparticle Research*
16. Mediators of inflammation

INVITED SPEAKER

- 2016 Speaker in the Department of Pharmaceutical Sciences, Rangel College of Pharmacy, Texas A&M Health Science Center. **Patients Derived Adipose Stem Cells Promote Prostate Cancer Progression through Exosomes-Associated Mechanisms.** April 27, 2016.
- 2013 Oral presentation entitled: **Early combined treatment with Avanafil and adipose tissue-derived stem cells promotes recovery of erectile function in a rat model of postprostatectomy induced erectile dysfunction.** Gokce A, *Abd Elmageed ZY*, et al.
- 2013 Oral presentation-Academic Surgical Congress, February 4-7th. Title: CD146-Latexin crosstalk and their potential role in thyroid tumorigenesis. *Abd Elmageed ZY* et al.
- 2013 Oral presentation-Academic Surgical Congress, February 4-7th. Title: **Simultaneous suppression of the MAP kinase and PI3K/Akt pathways in aggressive thyroid cancer.** Li X, *Abd Elmageed ZY*, Kandil E.
- 2012 Tulane University School of Medicine, New Orleans, LA. **The cross-talk between adipose stem cells and prostate cancer: Is that a Friend or a Foe?** Summer Research Day
- 2011 Tulane University School of Medicine, New Orleans, LA. **Estrogen-ER β Axis in the Progression of Prostate Cancer.** Summer Research Day
- 2010 Department of Urology, Tulane University School of Medicine, New Orleans, LA. **Patient Derived Adipose Stem Cells and Prostate Cancer Progression**
- 2007 Louisiana Cancer Research Center (LCRC) for Breast/Ovarian Cancer Group Series, LSU Health Science Center & Tulane Cancer Centre, New Orleans, LA. **The role of Cell Adhesion Molecule CD146 in suppressing breast tumor progression**
- 2007 Stanley S. Scott Cancer Centre Seminar Series, LSU Health Science Center, New Orleans, LA. **Early dysfunction of the p16/Rb pathway and identification of novel p16-target genes associated with UV-induced melanoma**
- 2006 Pathology Department Seminar Series, LSU Health Science Center at New Orleans, LA. **Dysregulation of p16INK4a and its role in the development of melanoma**
- 2005 SIRA Institute for Molecular Biology, Cairo, in collaboration with the University of Florida. **New concepts of Molecular Biology Techniques in Cancer Therapy**

ACADEMIC COMMITTEES

- 2016-*date* Student Admission Committee, Rangel College of Pharmacy, Texas A&M Health Science Center, College Station/Kingsville, TX
- 2015-2016 Director of Oncology Research, Department of Surgery and ENT, Tulane University School of Medicine, New Orleans, LA.
- 2005-2006 Senate member, University Committee for Postgraduate Studies and Research Development, Helwan University (Only two faculty members per each College are selected).
- 2004-2006 Member, Faculty Committee for Chemical and Instruments Supply, Helwan University

2004-2006 Member, Faculty of Science Council for Undergraduate Student Affairs and Technical University Official Support (TUOS), Helwan University

RESEARCH EXPERIENCE

In Vitro Model

- Gene cloning
- Flow cytometry
- Cell signaling and gene targeting
- Nucleic acid extractions, PCR and gene mutations
- Western Blot and Immunoprecipitation
- Luciferase assay, EMESA & ChIP assays
- Fluorescence & Confocal microscope
- Cell culture
- Cell functional assays
- Isolation of cells from human tissues using Laser capture microdissection (LCM).
- Proteomics and tumor markers approach
- microRNA expression analyses, microRNA arrays and microRNA-target genes
- Stem cells and their cross-talk to cancer cells
- Microvesicles “Exosomes” and high throughput assays
- Drug resistance to BRAF inhibitors in melanoma and thyroid cancers

Animal Model

- Investigating the neoplastic transformation of human Adipose-derived stem cells to prostate cancer-like cells using SCID mice
- Examining the role of cell adhesion molecules CD44 and CD146 in breast cancer metastasis using SCID mouse model
- Elucidating the role of IGFR in restoring vasculogenesis in Type-II diabetes using hind-limb ischemia mouse model
- Studying the role of Tregs (CD4-CD25) in coronary arteriolar endothelial dysfunction in angiotensin II-dependent hypertensive mice

Translational Research

- Targeting multiple signaling pathways in melanoma and thyroid cancer such as BRAF/MAP kinase and PI3K/Akt pathways
- Screening of new drugs with anti-tumor activity using *in vitro* and *in vivo* models and dissecting their signaling pathways using high throughput approach.
- Discovering new tumor diagnostic and prognostic markers in prostate patients and their clinical outcomes using miRNA arrays and proteomic approaches

TEACHING EXPERIENCE

2015-2016 Human Anatomy and Physiology (Biol-161, 3 credit hours) and human Biology (Biol-141, 3 credit hours), Department of Science and Math, Delgado, New Orleans, LA

2014-2016 Participating in teaching graduate students Cell Signaling course (3 credit hours), Department of

	Pharmacology and Experimental Therapeutics, LSU Health Sciences Center, School of Medicine, New Orleans , LA
2009-2014	Pharmacology and Molecular biology of cancer disease, graduate students and laboratory fellows at Tulane University School of Medicine, New Orleans, LA
2006-2008	Molecular biology for medical students, School of Medicine, LSU Health Sciences center
2004-2006	Radiation Biology and Toxicology, Faculty of Science, Helwan University
2004-2006	Cell Biology, Faculty of Science, Helwan University
2004-2006	Medical parasitology and immunology (Undergrads), Faculty of Science, Helwan University
2004-2006	Physiology and Anatomy (Undergrads), Faculty of Science, Helwan University, Cairo.
2000-2004	Teaching Instructor, Faculty of Science, Helwan University, Cairo.
1996-1999	Teaching Assistant, Faculty of Science, Helwan University, Cairo.

Current research Team Members (2 members)

1. Hamdy E.A. Ali, PhD. Senior Postdoctoral Research Fellow in molecular genetics
2. Shaimaa Gad, MS. PhD candidate in cancer biology

MENTORING AND SUPERVISORY ROLE (13 Trainees)

Robert Moore, MD 2015-2016

MD candidate, Department of Surgery, Tulane University School of Medicine, LA. Project title: The link of Metadherin expression and metastatic lymph nodes in thyroid cancer patients. Currently, Dr. Moore is a Pathology Resident at Johns Hopkins University. **Role: Supervisor**

Eric Katz, MD 2014 to 2015

MD candidate, Department of Urology, Tulane University School of Medicine, LA. Project title: Pioglitazone enhances survival and regeneration of pelvic ganglia neurons after cavernosal nerve crush in the rat. Currently, Dr. Katz is a Urology Resident at Boston Medical Center, Boston, MA. **Role: Supervisor**

A Moustafa, PhD 2013 to 2016

PhD candidate, Department of Urology, Tulane University School of Medicine, New Orleans, LA. Project title: Discovering the Role of Putative MicroRNAs in Prostate Tumorigenesis. Currently, Dr. Moustafa is Lecturer of tumor biology at Helwan University. **Role: Committee member.**

Manish Ranajan, PhD 2012 to 2015

PhD candidate, Department of Pharmacology, Biomedical Sciences Program, Tulane University School of Medicine. New Orleans, LA. Project title: Stem Cell-Based Selective Delivery of Alpha-Keto Reductases for Therapeutic Targeting of Residual Androgens in Metastatic Prostate Cancer. Currently, he is doing his postdoctoral training in Feinberg School of Medicine, Chicago, IL. **Role: Research Supervisor.**

Nobel Bhasin, PhD 2012 to 2015

PhD candidate, Department of Pharmacology, Biomedical Sciences Program, Tulane University School of Medicine, New Orleans, LA. Project title: Selective Membrane Expression of DAD1 is Associated with Survival of Prostate Cancer Cells. Dr. Bhasin is currently pursuing her Postdoctoral training at University of Chicago School of Medicine, Chicago, IL. **Role: Committee member.**

Sarmad Salem, MD, MS 2013-2014

Master of Science candidate, Department of Pharmacology, Biomedical Sciences Program, Tulane University School of Medicine, New Orleans, LA. Project title: The differential Expression of microRNAs in Exosomes Derived from Prostate Cancer Patients. Biomedical Sciences Program, **Role: Research Supervisor.**

Hala Taha, MD **2012-2013**

One year Research training, Department of Urology, Tulane University School of Medicine, New Orleans, LA. Project title: Using of onco-microRNAs as tumor markers in the prostate cancer. **Role: Research Supervisor.**

Aditi Mathur, PhD **2009-2013**

PhD candidate, Department of Pharmacology, Biomedical Sciences Program, Tulane University of Medicine, New Orleans, LA. Project title: Simultaneous targeting of endoplasmic reticulum stress and AKT pathways as a novel chemosensitization approach against castration resistant prostate cancer. **Role: Technical assistance.** Currently Dr. Mathur is completing her Postdoctoral training at Loyola University Chicago, IL.

Amrita Datta, PhD **2007-2012**

PhD candidate, Department of Pharmacology, Biomedical Sciences Program, Tulane University School of Medicine, LA. Project title: Modulatory effect of Alpha-naphthoflavone on Doxorubicin resistance in MCF7 human breast cancer cells. Currently Dr. Datta is pursuing a Postdoctoral Fellowship at Tulane University, New Orleans, LA. **Role: Technical assistance.**

A Gokce, MD **2011-2013**

Associate Professor, Two-year research program, Department of Urology, Tulane University School of Medicine, New Orleans, LA. Project title: Adipose-derived stem cells in treatment of rat model of Peyronie's disease. Currently Dr. Gokce is Associate Professor of Clinical Urology, Sakarya University, Turkey. **Role: Collaboration and technical assistance.**

Mallory Hitt, MA **2010-2011**

Master of Science candidate, Department of Pharmacology, Biomedical Sciences Program, Tulane University School of Medicine, New Orleans, LA. Project title: "Estrogen-ER β axis in prostate cancer progression". **Role: Research Supervisor.**

Vilija Vailaitis, MA **2009-2010**

Master of Science candidate, Department of Pharmacology, Biomedical Sciences Program, Tulane University School of Medicine, New Orleans, LA. Project title: Thymoquinone in Treatment of Breast Cancer. Currently Ms. Vialaitis is an MD candidate at Louisiana State University School of Medicine, New Orleans, LA. **Role: Research Supervisor.** Currently, she is MD candidate in LSU Medical School, LA.

AH. Amin, PhD **2008-2010**

PhD candidate and Two-year visiting scholar, Department of Physiology, Tulane University School of Medicine, New Orleans, LA. Project title: Therapeutic applications of Stromal Stem cells in ischemic hind-limb of type II diabetic mouse model. **Role: Research Supervisor.** Currently, Dr. Amin is an Assistant Professor in the Faculty of Science, Mansoura University.

PUBLICATIONS, 61 peer-reviewed publications

1. **Abd Elmageed ZY**, Sholl AB, Tsumagari K, Al-Qurayshi Z, Basolo F, Moroz K, Boulares H, Friedlander P, Miccoli P, Kandil E. Immunohistochemistry as an Accurate Tool for Evaluating BRAF-V600E Mutation in 130 Samples of Papillary Thyroid Cancer. **Surgery**, 2016 Dec 2. pii: S0039-6060(16)30722-X.
2. Abdel Wahab AH, El-Halawany MS, Emam AA, Elfiky A, **Abd Elmageed ZY**. Identification of circulating protein biomarkers in patients with hepatocellular carcinoma concomitantly infected with chronic hepatitis C virus. **Biomarkers**. 2016 Nov 10:1-8. [Epub ahead of print]

3. Gur S, Rezk BM, **Abd Elmageed ZY**, Kadowitz PJ, Sikka SC, Hellstrom WJ. Characterisation of pomegranate juice effects on human corpus cavernosum. *Andrologia*. 2016 Oct 26. doi: 10.1111/and.12712.
4. El-Bahrawy AH, Tarhuni A, Kim H, Subramaniam V, Benslimane I, **Elmageed ZY**, Okpechi SC, Ghonim MA, Hemeida RA, Abo-Yousef AM, El-Sherbiny GA, Abdel-Raheem IT, Kim J, Naura AS, Boulares AH. ApoE deficiency promotes colon inflammation and enhances the inflammatory potential of oxidized-LDL and TNF- α in primary colon epithelial cells. *Biosci Rep*. 2016 Nov 17;36(6). pii: e00408. Print 2016 Dec.
5. El Jamal SM, Taylor EB, **Abd Elmageed ZY**, Alamodi AA, Selimovic D, Alkhateeb A, Hannig M, Hassan SY, Santourlidis S, Friedlander PL, Haikel Y, Vijaykumar S, Kandil E, Hassan M. Interferon gamma-induced apoptosis of head and neck squamous cell carcinoma is connected to indoleamine-2,3-dioxygenase via mitochondrial and ER stress-associated pathways. *Cell Div*. 2016 Aug 2;11:11. doi: 10.1186/s13008-016-0023-4.
6. Anwar M, Murad F, Dawson E, **Abd Elmageed ZY**, Tsumagari K, Kandil E. Immunohistochemistry as a reliable method for detection of BRAF-V600E mutation in melanoma: a systematic review and meta-analysis of current published literature. *J Surg Res*. 2016. 15;203(2):407-15
7. Moore RF, Sholl AB, Kidd L, Al-Qurayshi Z, Tsumagari K, Emejulu OM, Kholmatov R, Friedlander P, **Abd Elmageed ZY**, Kandil E. Metadherin Expression is Associated with Extrathyroidal Extension in Papillary Thyroid Cancer Patients. *Ann Surg Oncol*. 2016 May 4. [Epub ahead of print]
8. Katz EG, Moustafa AA, Heidenberg D, Haney N, Peak T, Lasker GF, Knoedler M, Rittenberg D, Rezk BM, **Abd Elmageed ZY**, Yafi FA, Sikka S, Abdel-Mageed AB, Hellstrom WJ. Pioglitazone Enhances Survival and Regeneration of Pelvic Ganglion Neurons After Cavernosal Nerve Injury. *Urology*. 2016 Jan 6. pii: S0090-4295(15)01165-6.
9. Elzamly S, Elbalshy A, Abuhashim M, Saad E, Agina HA, **Abd Elmageed ZY***. Integration of VEGF and α -SMA expression improves the prediction accuracy of fibrosis in chronic Hepatitis C liver biopsy. *Appl Immunohistochem & Mol Morphol*. 2016 Mar 17. [Epub ahead of print]
10. Yang Y, Jia D, Kim H, **Abd Elmageed ZY**, Datta A, Davis R, Srivastav S, Moroz K, Crawford B, Moparty K, Thomas R, Hudson RS, Ambs S, Abdel-Mageed AB. Dysregulation of microRNA-212 Promotes Castration Resistance via hnRNPH1-Mediated Regulation of AR and AR-V7: Implications for Racial Disparity of Prostate Cancer. *Clin Cancer Res*. 2016 Apr 1;22(7):1744-56.
11. Tsumagari K, **Abd Elmageed ZY**, Sholl AB, Friedlander P, Abdraboha M, Xing M, Boulares AH, Kandil E. Simultaneous Suppression of the MAP kinase and NF κ B pathways Provide a Robust Therapeutic Potential for Thyroid Cancer. *Cancer letter*, 2015. 368: 46–53
12. El-Khattouti A, Selimovic D, Hannig M, Taylor EB, **Abd Elmageed ZY**, Hassan SY, Haikel Y, Kandil E, Leverkus M, Brodell RT, Megahed M, Hassan M. Imiquimod-induced apoptosis of melanoma cells is mediated by ER stress-dependent Noxa induction and enhanced by NF- κ B inhibition. *J Cellular Mol Med*. J Cell Mol Med, 2015. 20(2):266-86.
13. Laurent L, Abdel-Mageed AB, Adelson D, Arango J, Balaj L, Breakefield X, Carlson E, Carter BS, Cavaller BM, Chen CC, Cocucci E, Das S, **Abd Elmageed ZY**, Enderle D, Ezrin A, Ferrer M, Freedman J, Galas D, Gandhi R, Huentelman MJ, Jensen K, Kalani Y, Kim Y, Krichevsky AM, Lai C, Lal-Nag M, Laurent CD, Leonardo, Feng Li, Ivana Malenica, Debasis Mondal, Parham Nejad, Tushar Patel, Robert Raffai, Renee Rubio T, Skog J, Spetzler R, Tanriverdi K, Vickers K, Wang L, We Z, Weiner HL, Wong D, Yan I, Yeri A & Gould S. Meeting report: Discussions and preliminary findings on Extracellular RNA measurement methods of laboratories in the NIH Extracellular RNA Communication Consortium. *J Extracell Vesicles*. 2015 Aug; 4: 26533
14. Gokce A, **Abd Elmageed ZY**, Lasker GF, Bouljihad M, Braun SE, Kim H, Kadowitz PJ, Abdel-Mageed AB, Sikka SC, Hellstrom WJ. Intratunical Injection of Genetically Modified Adipose Tissue-Derived Stem Cells with Human Interferon α -2b for Treatment of Erectile Dysfunction in a Rat Model of Tunica Albuginea Fibrosis. *J Sex Med*. 2015. 12(7):1533-44.

15. Sangkum P, Gokce A, Tan RB, Bouljihad M, Kim H, Mandava SH, Saleem SN, Lasker GF, Yafi FA, **Abd Elmageed ZY**, Moparty K, Sikka SC, Abdel-Mageed AB, Hellstrom WJ. TGF- β 1 induced urethral fibrosis in a rat model. *J Urol*. 2015. pii: S0022-5347(15)00253-0.
16. Datta A, Bhasin N, Kim H, Ranjan M, Rider B, **Abd Elmageed ZY**, Mondal D, Agrawal KC, Abdel-Mageed AB. Selective targeting of FAK-Pyk2 axis by alpha-naphthoflavone abrogates doxorubicin resistance in breast cancer cells. *Cancer Lett*. 2015. 28; 362 (1):25-35.
17. Kim H, Tarhuni A, **Abd Elmageed ZY**, Boulares AH. Poly(ADP-ribose) polymerase as a novel regulator of 17 β -estradiol-induced cell growth through a control of the estrogen receptor/IGF-1 receptor/PDZK1 axis. *J Transl Med*. 2015. 17; 13 (1):233.
18. Handra-Luca A, **Abd Elmageed ZY**, Magkou C, Lae M. Immunophenotype heterogeneity in nasal glomangiopericytoma. *Case Reports in Otolaryngology*. 2015. Article ID 308743.
19. Bhatia P, Friedlander P, **Abd Elmageed ZY**, Kandil E. Impact of BRAF mutation status in the prognosis of cutaneous melanoma: an area of ongoing research. *Ann Transl Med*. 2015. 3(2):24-30.
20. Bhatia P, **Abd Elmageed ZY**, Friedlander P, Aslam R, Kandil E. The utility of molecular markers in pre-operative assessment of thyroid nodules. *Future Oncol*. 2015 Aug;11(16):2343-50.
21. **Abd Elmageed ZY**, Yang Y, Thomas R, Mondal D, Moparty K, Moroz K, Sartor O, Abdel-Mageed AB. Neoplastic Reprogramming of Patient-Derived Adipose Stem Cells by Prostate Cancer Cell Associated Exosomes. *Stem Cells*, 2014, 32(4):983-97.
22. Kruger S, **Abd Elmageed ZY**, Hawke DH, Jansen D, Dupin CL, Chaffin AE, Abdel-Mageed AB, Alt EU, Izadpanah R. Molecular Characterization of Exosomes Released from Two Breast Cancer Cell Lines. *BMC Cancer*, 2014, 14(1):44.
23. Kim H, **Abd Elmageed ZY***, Davis C, El-Bahrawy AH, Naura AS, Ekaidi I, Abdel-Mageed AB, Boulares AH. Correlation between PDZK1, Cdc37, Akt and breast cancer malignancy: the role of PDZK1 in cell growth through Akt stabilization by increasing and interacting with Cdc37. *Mol Med*. 2014, 14;20(1):270-9 (Co-first author)
24. Mathur A, **Abd Elmageed ZY**, Liu X, Kostochka ML, Zhang H, Abdel-Mageed AB, Mondal D. Subverting ER-stress towards apoptosis by nelfinavir and curcumin coexposure augments docetaxel efficacy in castration resistant prostate cancer cells. *PLoS One*. 2014, 4; 9 (8):e103109.
25. Bhatia P, Tsumagari K, **Abd Elmageed ZY**, Friedlander P, Buell JF, Kandil E. Stem cell biology in thyroid cancer: Insights for novel therapies. *World J Stem Cells* 2014; 6(5): 614-619.
26. Mohamed AA, Soliman H, Ismail M, Ziada D, Farid TM, Aref AM, Al Daly ME, **Abd Elmageed ZY***. Evaluation of circulating ADH and MIC-1 as diagnostic markers in Egyptian patients with pancreatic cancer. *Pancreatology*. 2014 pii: S1424-3903(14)01004-7.
27. Handra-Luca A, **Abd Elmageed ZY**, Gouhier P. CD99 Expression in nasal lobular capillary hemangioma. *Histopathology*. 2014, 65(4): 583-5.
28. Gokce A, **Abd Elmageed ZY**, Lasker GF, Mandava SH, Trost LW, Kadowitz PJ, Abdel-Mageed AB, Sikka SC, Hellstrom WJ. Adipose tissue-derived stem cell therapy for prevention and treatment of erectile dysfunction in a rat model of Peyronie's disease. *Andrology*. 2014, 2(2):244-51.
29. Kim H, **Abd Elmageed ZY**, Ju J, Naura AS, Abdel-Mageed AB, Varughese S, Paul D, Alahari S, Catling A, Kim JG, Boulares AH. PDZK1 is a novel factor in breast cancer that is indirectly regulated by estrogen through IGF-1R and promotes estrogen-mediated growth. *Mol Med*. 2013 Jun 26. 19: 253-62 (Co-first Author)
30. **Abd Elmageed ZY***, Moroz K, Kandil E. Clinical significance of CD146 and latexin during different stages of thyroid cancer. *Mol Cell Biochem*. 2013 Sep; 381(1-2): 95-103.
31. **Abd Elmageed ZY**, Moroz K, Srivastav S, Crawford B, Moparty K, Thomas R, Abdel-Mageed AB. The importance of Estrogen-ER-beta axis in health disparity of Prostate Cancer. *Carcinogenesis* 2013. 34 (9): 2017-23.

32. Naura AS, Kim H, Ju J, Rodriguez PC, Jordan J, Catling AD, Rezk BM, **Abd Elmageed ZY**, Pyakurel K, Tarhuni AF, Abughazleh MQ, Errami Y, Zerfaoui M, Ochoa AO, Boulares AH. Minocycline blocks asthma-associated inflammation in part by interfering with the T cell receptor-NF- κ B-GATA-3-IL-4 axis without a prominent effect on PARP. *J Biol Chem*. 2013 Jan 18; 288 (3): 1458-68.
33. Nada AS, Hawas AM, **Abd Elmageed ZY**, Amin NE. Protective value of *Aloe vera* extract against γ -irradiation induced some biochemical disorders in rats. *J. Rad. Res Appl. Sci*. 2013. 6: 31-37.
34. Kandil E, Tsumagari K, Ma J, **Abd Elmageed ZY**, Slakey DP, Mondal D, Abdel-Mageed AB. Synergistic inhibition of thyroid cancer by suppressing MAPK/PI3K/AKT pathways". *J. Surg. Res*. 2013. 184 (2): 898-906.
35. Gur S, Sikka SC, Abdel-Mageed AB, **Abd Elmageed ZY**, Rezk B, Pankey E, Kadowitz PJ, Hellstrom WJ. Imatinib Mesylate (Gleevec) Induces Human Corpus Cavernosum Relaxation by Inhibiting Receptor Tyrosine Kinases (RTKs): Identification of New RTK Targets. *Urology*. 2013. 82 (3): 745.e11-6.
36. **Abd Elmageed ZY**, Naura AS, Errami Y, Zerfaoui M. The Poly(ADP-ribose) polymerases (PARPs): New roles in intracellular transport. *Cell Signal*. 2012 Jan; 24(1):1-8. Epub 2011 Aug 5.
37. Nada AS, Hawas AM, Amin NE, Elnashar MM, **Abd Elmageed ZY***. Radioprotective Effect of Curcuma longa Extract on γ -Irradiation-induced Oxidative Stress in Rats. *Can J Physiol Pharmacol*. 2012 Apr; 90 (4): 415-23.
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Conferences and Abstracts (59 conference posters and/or abstracts)

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