



CURRICULUM VITAE

NAME: MAHMOUD MOHAMED GABR

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HOME ADDRESS: 2 Othman Ben Affan Street, 6 October, Mansoura, Egypt.

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DATE OF BIRTH: December 11 *th*, 1959.

PLACE Of BIRTH: Mansoura, Dakahlia, Egypt.

CITIZENSHIP: Egyptian.

MARITAL STATE: Married, 3 Children.

EDUCATION:

Ph. D., Cell Biology, 1991. Zoology Department, Faculty of Science, Mansoura University, Mansoura, Egypt.

Title of thesis: Establishment and characterization of a new cell line derived from human urinary bladder carcinoma.

M. Sc., Zoology, 1987. Zoology Department, Faculty of Science, Mansoura University, Mansoura, Egypt.

Title of thesis: Ultra structural investigation of some tissues in bilharzial infected mice and the effect of Biltricide.

B. Sc., Zoology & Chemistry, 1983. Zoology Department, Faculty of Science, Mansoura University, Mansoura, Egypt.

LANGUAGES: Arabic – English.

TRAINING:

Sep. – Nov., 1993. Completed a three months course in islet isolation and Transplantation Also, training in sertoli cell isolation and culture at the University of Tennessee, Memphis, Tennessee, USA.

December 10-15, 2005. Training course in application of molecular biology and bioinformatics at the center for genetic engineering and biotechnology, Ain Shams University, Cairo, Egypt.

July 16-19, 2011. Training course in application of molecular biology and bioinformatics at the center of medical technology, Alexandria university, Alexandria, Egypt.

Oct, 2011- Mar., 2012. Six courses in Faculty Leadership Development

April 8-10, 2014. Workshop and Training course in stem cells at Life Technologies Ltd., Paisley, Scotland, UK.

EMPLOYMENT HISTORY:

-1987 – 1991. Research investigator, Division of biotechnology Urology & Nephrology Center, Mansoura University, Mansoura, Egypt.

-1991 – 1999: Supervisor of tissue culture laboratory, Urology & Nephrology Center, Mansoura University, Mansoura, Egypt.

-1999 – 2006: Fellow of medical analysis and supervisor of research laboratory, Urology & Nephrology Center, Mansoura University, Mansoura, Egypt.

-2006 - 2012: Assistant consultant of tissue culture and supervisor of research laboratory, Urology & Nephrology Center, Mansoura University, Mansoura, Egypt.

-2012 – present: Consultant of Cytology & Histology and supervisor of research laboratory, Urology & Nephrology Center, Mansoura University, Mansoura, Egypt.

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS:

- Member in Artificial Insulin Delivery Systems, Pancreas and Islet Transplantation (**AIDSPIT**) since 1996 till now.

- Member in International Society of Stem Cell Research (**ISCCR**) since 2008 till now.

- Member in Egyptian German society of zoology since 2012 till now.

GAINED EXPERIENCE :

Tissue culture technology . Establishment and characterization of new cell lines . Isolation, culture and transplantation of pancreatic islets . Isolation and culture of Sertoli cells.

Ultrastructure technology. Processing and interpretation of transmission and scanning electron microscopy.

Cytogenetic technology. Chromosomal preparation.

Flow cytometric technology. DNA analysis.

Preparation of tissue acellular matrix.

Isolation and characterization of stem cells.

SCIENTIFIC SUPERVISION:

M. Sc. Zoology, 1998. Zoology Department, Faculty of Science, Mansoura University, Mansoura , Egypt.

Title of thesis: Transplantation of isolated islets of Langerhans for the treatment of diabetic rats.

M. Sc. Biochemistry, 2000. Biochemistry Department, Faculty of Science, Mansoura University, Mansoura, Egypt.

Title of thesis: Studies on the effects of cyclosporin A on experimental pancreatic islet cell transplantation in rats.

M. Sc. Biochemistry, 2005. Biochemistry Department, Faculty of Science, Mansoura University, Mansoura, Egypt.

Title of thesis: Effect of (N-hydroxyphenyl) retinamide on prevention and Treatment of bladder cancer: An experimental study.

Ph.D. Biochemistry, 2007. Biochemistry Department, Faculty of Pharmacy, Zagazig University, Zagazig, Egypt.

Title of thesis: The effect of Peroxismale proliferators-activated receptors alpha and Gamma in experimental diabetic animals during renal ischemia-reperfusion injury.

M. Sc. Biochemistry, 2009. Biochemistry Department, Faculty of Science, Mansoura University, Mansoura, Egypt.

Title of thesis: Differentiation of rat bone marrow stem cells into insulin-producing cells.

M. Sc. Biochemistry, 2009. Biochemistry Department, Faculty of Science, Mansoura University, Mansoura, Egypt.

Title of thesis: Transplantation of insulin-producing clusters derived from bone marrow Stem cells to treat diabetes in rats.

M. Sc. zoology, 2010. zoology Department, Faculty of Science, Mansoura University, Mansoura, Egypt.

Title of thesis: Assessment the antitumor effect of allyl isothiocynate on bladder cancer.

M. Sc. Biochemistry, 2014. Biochemistry Department, Faculty of Science, Mansoura University, Mansoura, Egypt.

Title of thesis: Differentiation of nestin positive mesenchymal stem cells derived from adult human bone marrow into insulin producing cells.

M. Sc. Physiology, 2014. Physiology Department, Faculty of Veterinary medicine, Mansoura University, Mansoura, Egypt.

Title of thesis: Impact of insulin producing stem cells derived from human bone marrow on some diabetic complications

CONFERENCES AND PRESENTATIONS:

Sep. 3 – 6, 1991. Participated in the 26 *th* annual meeting of the Egyptian Urology Association, Hurghada, Red sea, Egypt.

Mar. 27– 31, 1994 . Participated in the first Egyptian French Conference in Immunology and Molecular biology , Mansoura , Egypt.

Jan. 26 – 30, 1996. Participated in the 15 *th* workshop of the Artificial Insulin Delivery System, Pancreas and Islet Transplantation (AIDSPI) of the European Association for the study of Diabetes, Igls, Austria.

Oct. 20 – 24, 1996. Participated in the 5 *th* International Middle East Society For Organ Transplantation (MESOT) Congress, Limassol, Cyprus.

Feb. 25 - 27, 1997. Participated in the 8 *th* annual conference of Egyptian society of laboratory medicine in the 21 *st* century, Cairo, Egypt.

Apr.10 – 13, 1997. Participated in the third international congress of clinical pathology and the third Egyptian – French seminar of Immunology and Molecular Biology, Mansoura, Egypt.

Oct. 14 – 17, 1997. Participated in the 32nd annual meeting of the Egyptian Urological Association, Alexandria, Egypt.

Dec. 27 – 29, 1997. Participated in the 43rd scientific congress of the Egyptian society of Clinical Chemistry, Cairo, Egypt.

Jan. 25 – 27, 1998. Participated in the 17th workshop of the Artificial Insulin Delivery Systems, Pancreas and Islet Transplantation (AIDSPIT) for the study of diabetes, Igls, Austria.

Aug. 29– 30, 1998 . Participated in the 4th Egyptian French Conference of Immunology and Molecular biology , Mansoura , Egypt.

Jan. 24 – 26, 1999. Participated in the 18th workshop of the Artificial Insulin Delivery Systems, Pancreas and Islet Transplantation (AIDSPIT) for the study of diabetes, Igls, Austria.

Aug. 27 – Sep. 1, 2000. Participated in the XV111 International Congress of the Transplantation Society, Rome, Italy.

Sep. 7 - 9, 2004. Participate in eleven international congress of Union of Arab Biologists, Cairo, Egypt.

Jul.6-9, 2008. Participated in the 2nd International Congress on stem cells and tissue formation, Dresden, Germany.

Jul.8-11, 2009. Participated in the 7th Annual Meeting of the International Society for Stem Cell Research, Barcelona, Spain.

Jul.11-14, 2010. Participate in the 3rd International Congress on stem cells and tissue formation, Dresden, Germany.

Sep.28-29, 2010. Participated in the Colloquium/workshop on the potential for mesenchymal stem cell treatment for diabetes, Cambridge, England.

Sep.4-7, 2011. Participated in the 15th Congress of the European Society For Organ Transplantation, featuring the ETCO EDC joint meeting, ESOT EFI BSHI joint Symposium and the 22nd Annual BSHI Conference, Glasgow, Scotland, UK.

Jul.18-20, 2012. Participated in the 4th International Congress on stem cells and tissue formation, Dresden, Germany.

Aug.18-23, 2013. Participated in the a scientific meeting about laminin products, Stockholm, Sweden.

Mar.24-25, 2015. Participated in the Middle East stem cell symposium: Opportunities and challenges in stem cell research and therapy developments. Doha, Qatar

Jul.19-20, 2015. Participated in the 17th International Conference on Tissue Engineering and Regenerative Medicine, Paris, France.

Honoring:

- Prize for the best research in Urology and Nephrology center in islet transplantation for the treatment of diabetes in experimental animals, **1993.**
- Chairman session in 1st International Congress on tissue engineering, Alexandria, **13-16 Feb., 2009.**
- Invited for two weeks to National university of Singapore to transfer our experience in isolation and transplantation of human bone marrow stem cells to treat diabetes, **Singapore, Jan. 3-17, 2010.**
- Invited for two days to National Trinity College in Cambridge to discuss our results in isolation and transplantation of human bone marrow stem cells to treat diabetes, Cambridge, England, **Sep. 28-29, 2010.**
- **Mansoura Medical Prize** from the Academy of Scientific Research and Technology, Ministry of Higher Education & Scientific Research, **2011.**

PUBLICATIONS:

- 1- Gabr M. M. and Seddek M. M. (1990): Ultrastructure features of newly established human bladder carcinoma cell lines. J. Egypt, Natl. Cancer Inst., 4 (4): 631 – 638.
- 2- Ismail M. Gabr M. and Othman A . (1990): Ultrastructural investigation of liver in bilharzial infected mice and the effect of biltricide. Bull. Fac. Sci., Zagazig University, 12: 880 – 892.
- 3- Seddek M., Gabr M., El–Baz M. and Shabaan A. (1991): In Vitro establishment of schistosomal bladder cancer cell lines. The New Egypt. J. Med., 5: 54 – 58.
- 4- Ismail M ., Gabr M . and Othman A . (1991): Ultrastructural investigation of the male gonads in bilharzial infected mice and the effect of biltricide. J. Environmental Sciences, 2: 225 – 242. *IF 1.6*
- 5- Bakr M., Refaie A., Ihab M., Gabr, M., Farahat S., El-Baz M. and Ghoneim M. (1997). Experimental Islet cell transplantation in rats. Transplantation proceeding, 29: 2908-2911. *IF 1*
- 6- Refaie A., Gabr M., Mahmoud I., Bakr M., El-Baz M. and Ghoneim M. (1998). Experimental islet cell transplantation in rats: Optimization of the transplantation site. Transplantation Proceeding, 30: 400- 403. *IF 1*
- 7- Mahmoud I., Gabr M., Refaie A., El-Baz M., Bakr M and Ghoneim M. (1998). Purified murine islet allograft : islet engraftment as influenced by implantation site and glucotoxicity. Transplantation Proceeding, 30: 369-372. *IF 1*

- 8- Ismail M., Gabr M., and Sobh M. (1999). Renal subcapsular transplantation of purified islet isografts and Allografts in diabetic rat. J. Egypt. Ger. Soc. Zool., 28 (c): 287-298.
- 9- Ismail M., Gabr M., and Sobh M. (1999). Intratesticular transplantation of purified islet isografts and Allografts in diabetic rat. J. Egypt. Ger. Soc. Zool., 28 (c): 323- 333.
- 10-* Gabr M., El baz M., Mahmoud I., Bakr M., Refaie A. and Ghoneim M. (2002). Prolonged islet xenograft survival in the intra-abdominal testis and under the kidney capsule .African Journal of Nephrology, 6: 41 – 46.
- 11-* Shokeir A., Osman Y., El-sherbiny M., Gabr M., Mohsen T., and El-Baz M. (2003). Comparison of partial replacement acellular matrix versus spontaneous urethral regeneration in a canine model . European urology, 44: 603 – 609. *IF 8.49*
- 12-* Shokeir A., Osman Y., Gabr M., Mohsen T., Dawaba M. and El-Baz M. (2004). Acellular matrix tube for canine urethral replacement: Is it fact or fiction ?. J. Urology, 171: 453-456. *IF 3.7*
- 13-* Osman Y., Shokeir A., Gabr M., El-Tabey N., Mohsen T. and El-Baz M. (2004). Canine ureteral replacement with long acellular matrix tube: Is it clinically applicable ?. J. Urology, 172: 1151-1154. *IF 3.7*
- 14-* Shokeir A., Osman Y., El-Azab M., Gabr M., Dawaba M. and El-Baz M. (2004). Tunica albuginea acellular matrix graft for treatment of Peyronie 's disease: An experimental study in dogs. Scandinavian J. of Urol. Nephrol, 38: 499-503, 2004. *IF 0.9*
- 15-* Gabr M., Bakr M., El-Baz M. and Ghoneim M. (2004). Xenotransplantation of pancreatic islets microcapsulated in agarose gel. African Journal of Nephrology, 8: 92-96.

- 16- Gabr M. and Refaie A. (2004). The effect of anti-diabetic agents on biochemical changes of diabetic rats. African Journal of Nephrology, 8: 63-67.
- 17- Gabr M. (2004). Rapid induction of bladder cancer in rats. J. of Union of Arab Biologists Cairo, 22: 291-304.
- 18- Gabr M., Sobh M., Zakaria M., Refaie A., Ghoneim M. (2008). Transplantation of Insulin-producing clusters derived from adult bone marrow stem cells to treat Diabetes in rats. Experimental and clinical transplantation, 3:236-243. *IF 0.8*
- 19- Seida A., EL-Gamal E., Gabr M., Ibrahim H., El-Gharib M. (2008). Synthesis of new microcapsules from agarose gel and their medical applications. Al-Azhar Bull. Sci., 19: 91-100.
- 20- Seida A., Gabr M., EL-Gamal E., Ibrahim H., El-Gharib M. (2008). Effect of Cyclosporin-A as an immunosuppressive drug on islet cells transplantation in mice. Al-Azhar Bull. Sci., 19: 109-118.
- 21- Ismail A., Gabr M., Ghoneim M. (2009). Insulin-producing islet-like clusters derived from adult bone marrow mesenchymal stem cells: Role of laboratory medicine. Journal of molecular diagnosis and vaccines, 7: 1-5.
- 22- Gabr M., Refaie A., Hussein A. (2010). The role of nitric oxide in metabolic dysfunctions and oxidativr stress in type 1 diabetes mellitus: An experimental rodent study. Benha medical journal, 27: 87-98.
- 23- Gabr M., Sherif I, Ali S, Mohamed H. (2010). Renal ischemia /reperfusion injury in type II DM: possible role of proinflammatory cytokines, apoptosis, and nitricoxide. European Journal of Scientific Research, 47 : 632-648. *IF 0.06*

- 24- Gabr M., Ismail A., Refaie A., Ghoneim M. (2011). Differentiation of rat bone marrow-derived mesenchymal stem cells into insulin-producing cells. *J. Basic, Appl. Sci. Res.*, 1(5):398-404.
- 25- Gabr M., Shokeir A. (2011). Induction of apoptosis by N-(4-hydroxy phenyl) retinamide in human bladder squamous and transitional cell carcinoma cell lines. *African Journal of Scientific Research*, 2: 101-115.
- 26- Hussien A., Abdel-aziz A., Gabr M., Hemmaid K. (2012). Myocardial and metabolic dysfunction in type 2 diabetic rats: impact of ghrelin. *Canadian Journal of Physiology and Pharmacology*, 90: 99–111. *IF 1.95*
- 27- Gabr M. (2012). Effect of N-(4-Hydroxyphenyl) Retinamide on Rat Bladder Cancer: *In Vivo* Experimental study. *J. of the Egyptian German Society of Zoology (64C): Histology&Histochemistry*, 297-309.
- 28- El-Tabey N., Shokeir A., Barakat N., El-Refaie H., Abd El-Hamid M., Gabr M. (2012). Cell-seeded tubular acellular matrix for replacing a long circumferential urethral defect in a canine model: Is it clinically applicable ?. *Arab J. Urology*, 10: 192-198.
- 29- Elsherbiny N., Galil Kh., Gabr M., Al-Gayyar M., Eissa L., El-Shishtawy M. (2012). Reno-protective effect of NECA in diabetic nephropathy: implication of IL-18 and ICAM-1. *Eur. Cytokine Network*, 23: 78-86. *IF 1.7*
- 30- Gabr M., EL-Far M., Ibrahim, R., El-Halawani, S., Ismail A., Zakaria M., Khater, Sh., Ghoneim M. (2012). Biochemical induction of adult bone marrow hematopoietic stem cells into insulin producing cells. *Current Topics in Biochemical Research*, 14: 45-56.

- 31- EL-Far M., Gabr M., EL-Halawany S., Ibrahim R., Khater Sh., Refaie A., Ghoneim M. . (2012). Novel evidence of restoring and augmenting antioxidant defence after treatment of diabetic rats using stem cells. *Current Topics in Biochemical Research*, 14: 25-37.
- 32- Gabr M., Taha M., Zakaria M. (2013). Impact of Calcitriol on human squamous and transitional bladder carcinoma cell lines. *J. Basic Appl. Sci. Res.*, 3(2): 526-531.
- 33- Gabr M., Zakaria M., Refaie A., Ismail A., Abou-El-Mahasen, M., Ashamallah, S., Khater, Sh., El-Halawani, S., Ibrahim, R., Uin, G., Kloc, M., Calne, R., Ghoneim M. (2013). Insulin Producing Cells Derived From Adult Human Bone Marrow Mesenchymal Stem Cells Control Streptozotocin-Induced Diabetes in Nude Mice. *Cell Transplantation*, 22: 133-145. *IF 6.2*
- 34- EL-Far Y., Abd ElGalil KH., Gabr M., Eissa L., El-Shishtawy M. (2013). Antitumor effect of chitosan and silibinin and their Combination in mice bearing Ehrlich ascites tumors: Impact of P53 and p21. *Current Topics in Biochemical Research*, 15: 29-49.
- 35- Gabr M., Zakaria M., Refaie A., Khater, Sh., Ashamallah, S., Ismail A., EL-Badri N., Ghoneim M. (2014). Generation of Insulin-Producing Cells from Human Bone Marrow-Derived Mesenchymal Stem Cells: Comparison of Three Differentiation Protocols. *BioMed Research International*. 1-9. *IF 2.8*
- 36- Gabr M., Zakaria M., Refaie A., Khater, Sh., Ashamallah, S., Ismail A., El-Halawani S., Ghoneim M. (2015). Differentiation of Human Bone Marrow-Derived Mesenchymal Stem Cells into Insulin-Producing Cells: Evidence for Further Maturation In Vivo. *BioMed Research International*. 1-10. *IF 2.8*

- 37- Ibrahim H A, Gabr M M, EL-kholy W M, Abd-EL-khalek W S, Zakaria M M (2015). Protective and curative role of allyl isothiocyanate against bladder carcinogenesis in rats. International Journal of Advanced Research, Volume 3, Issue 9, 544 – 554.
- 38- Hussein AM, Barakat N, Awadalla A, Gabr MM, Khater S, Harraz AM, Shokeir AA (2016). Modulation of renal ischemia/reperfusion in rats by a combination of ischemic preconditioning and adipose-derived mesenchymal stem cells (ADMSCs). Can J Physiol Pharmacol. Sep; 94(9): 936-46. *IF 1.7*
- 39- Mai Barakat, Faten Zhran, Mahmoud Gabr, Mohamed El Adl (2016). Effects of Protoporphyrin on Renal Ischemia/Reperfusion Injury. International Journal of Scientific Reseach. Vol 5, No 4, 80-82.
- 40- El-Far YM, Zakaria MM, Gabr MM, El Gayar AM, El-Sherbiny IM, Eissa LA (2016). A newly developed silymarin nanoformulation as a potential antidiabetic agent in experimental diabetes. Nanomedicine (Lond); 11(19): 2581-602. *IF 4.8*