

Nashwa Mohamed Ibraheim Barakat
(Ph.D. Vet.Surgery)
Assistant Consultant of Veterinary Surgery
Animal Research Facility
Urology and Nephrology Center,
Mansoura University, Mansoura, Egypt.



Personal Data



Name	Nashwa Mohamed Ibraheim Barakat
Citizenship	Egyptian.
Marital Status	Married and mothering three children.
Date of Birth	May 5 th , 1960.
Office Address	72 Gomhoria Street, Mansoura-Egypt.
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Qualifications and Positions



- **B.V.Sc** (1984) Faculty of veterinary medicine, Zagazig University, Zagazig , Egypt.
- **Diploma** in Veterinary Surgery (1993) Faculty of veterinary medicine, Zagazig University, Zagazig, Egypt.
- **Masters degree** (2000) in Veterinary Surgery, Faculty of veterinary medicine, Zagazig University, Zagazig , Egypt.
- **PhD degree** (2005) in Veterinary Surgery, Faculty of veterinary medicine, Zagazig University, Zagazig , Egypt.

Current Position

Assistant Consultant & head of Animal Research Facility , Urology and Nephrology Center, Mansoura University, Mansoura- Egypt.

Experiences:



Routine Work:

- Handling & breeding of all laboratory Animals
- Anesthesia of all laboratory animals.
- Hand skills in different surgical procedures in all laboratory animals.

Technical Experience:

- Bladder cancer model in Rats.
- Microsurgical renal transplantation in rat.
- Renal ischemia model in rat.
- Renal transplantation in dog.

- Cystoplasty in dog and rat
- Ureteric partial obstruction model in dogs and rat.
- Hepatic ischemia model in rat.
- Ureterovesical re-implantation in dog.
- Renal fibrosis in rat and dog.
- Renal failure model in rat and dog.
- Diabetes mellitus model in rat.
- Neuroma model in rat.
- Total & Partial nephrectomy in rat and dog.
- Total & Partial hepatectomy in rat.

TEACHING ACTIVITIES :

Annual summer course for students of faculty of medicine & veterinary medicine on the basics & ethics of scientific research, together with basic experimental animal models.

Skills:

- *Supervising a complete research work. Lead a team of work.
- *Initiating a new laboratory animal house in faculty of medicine, Mansoura University.
- *Writing complete research protocols depending on the nature of the work. Writing complete articles.

Scientific International Training courses:



Member of the organizing committee & Head of veterinary surgical team in the following international training courses in Urology Nephrology Center:

1-The 2nd international training course in bladder cancer and urinary diversion techniques, Urology & Nephrology Center, Mansoura, Egypt, 26-29, February 2005.

- 2-The **3rd international training course in bladder cancer and urinary diversion techniques**, Urology & Nephrology Center, Mansoura, Egypt, September 2005.
- 3-The **1st international training course in pediatric surgery**, Urology & Nephrology Center, Mansoura, Egypt, November, 2005.
- 4-The **1st international training course in kidney transplantation**, Urology & Nephrology Center Mansoura, Egypt, December, 2005.
- 5-The **4th international training course in bladder cancer and urinary diversion techniques**, Urology & Nephrology Center, Mansoura, Egypt, March 2006.
- 6-The **5th international training course in bladder cancer and urinary diversion techniques**, Urology & Nephrology Center, Mansoura, Egypt, September 2006.
- 7-The **1st international training course in Uro- laparoscopy**, Urology & Nephrology Center Mansoura, Egypt, April, 2006.
- 8-The **2nd International training course in Uro- laparoscopy**, Urology & Nephrology Center Mansoura, Egypt, April, 2006.
- 9-The **6th international training course in bladder cancer and urinary diversion techniques**, Urology & Nephrology Center, Mansoura, Egypt, March 2007.
- 10-The **3rd international training course in Uro- laparoscopy**, Urology & Nephrology Center Mansoura, Egypt, April, 2007.
- 11-The **7th international training course in bladder cancer and urinary diversion techniques**, Urology & Nephrology Center, Mansoura, Egypt, October, 2007.
- 12-The **1st international training course in hemodialysis**, Urology & Nephrology Center, Mansoura, Egypt, May, 2008.
- 13-The **8th international training course in bladder cancer and urinary diversion techniques**, Urology & Nephrology Center, Mansoura, Egypt, October 2008.
- 14-The **3rd international training course in Uro- laparoscopy**, Urology & Nephrology Center Mansoura, Egypt, November 17-19, 2008.

15-**The 1st International Training Course On Basic Urology**, Urology & Nephrology Center Mansoura, Egypt, 1-4 December, 2008.

16-**The 4th international training course in Uro- laparoscopy**, Urology & Nephrology Center Mansoura, Egypt, January 18-22, 2009.

17-**The 5th international training course in Uro- laparoscopy**, Urology & Nephrology Center Mansoura, Egypt, June 21-25, 2009.

18-**The 9th international training course in bladder cancer and urinary diversion techniques,,** Urology & Nephrology Center, Mansoura, Egypt, March 2009.

19- **10th international training course in bladder cance and urinary diversion techniques,r**, Urology & Nephrology Center, Mansoura, Egypt, 11-16 October 2009.

20-**The 2nd international training course in Recent Advances in Uorlogic Oncology** 7-11November 2009.

21-**The 6th international training course in Uro- laparoscopy**, Urology & Nephrology Center Mansoura, Egypt, 26-30 December, 2009.

22-**The 1st international training course on Techniques in Reconstructive Urology**, 23-29 January 2010.

23-**The 7th international training course in Uro- laparoscopy**, Urology & Nephrology Center Mansoura, Egypt, 2-6 May, 2010

24-**The 11th. International training course in invasive bladder cancer and urinary diversion techniques**, Urology & Nephrology Center, Mansoura, Egypt, 19 -23 September, 2010.

25-**The 8th international training course in Uro- laparoscopy**, Urology & Nephrology Center

Mansoura, Egypt, 26 -29 May, 2010.

26-The 12th international training course in invasive bladder cancer and urinary diversion techniques, Urology & Nephrology Center, Mansoura, Egypt, 10 -15 October, 2010.

27-The 3rd. international training course in Techniques in Urologic Oncology, 6-10, November, 2010.

28-The 9th international training course in Uro- laparoscopy, Urology & Nephrology Center Mansoura, Egypt, 19 -23, Desember 2010.

29-The 2nd international training course on Techniques in Reconstructive Urology, 29 February -4 January 2011.

30-The 10th international training course in Uro- laparoscopy, Urology & Nephrology Center Mansoura, Egypt, 2011.

31-The 13th. International training course in invasive bladder cancer and urinary diversion techniques, Urology & Nephrology Center, Mansoura, Egypt, 18 -23 September, 2011.

32-The 11th international training course in Uro- laparoscopy, Urology & Nephrology Center Mansoura, Egypt, 9-13 October 2011.

33- The 12th international training course in uro-laparoscopy, Urology & Nephrology Center, Mansoura, Egypt, 21 - 25 April, 2012.

34- The 13th international training course in uro-laparoscopy, Urology & Nephrology Center, Mansoura, Egypt, 17 - 20 June, 2012.

35- The 13th international training course in invasive bladder cancer and urinary diversion techniques, Urology & Nephrology Center, Mansoura, Egypt, 14 - 19 October, 2012.

36- The 14th international training course in uro-laparoscopy , Urology & Nephrology Center, Mansoura, Egypt, 18th - 22th November, 2012.

37- The 4th international training course on techniques in reconstructive surgery, Urology

& Nephrology Center, Mansoura, Egypt, 2nd - 7th February, 2013.

38- **The 2nd international pediatric urology training course** , Urology & Nephrology Center, Mansoura, Egypt, 18 - 23 May 2013.

39- **The 15th international training course on uro-laparoscopy**, Urology & Nephrology Center, Mansoura, Egypt, 23 - 26 June, 2013.

40- **The 16th international training course on uro-laparoscopy**, Urology & Nephrology Center, Mansoura, Egypt, 19 -23, October, 2014.

41- **The 2nd International Training Course On Basic Urology**, Urology & Nephrology Center Mansoura, Egypt, 31 May-4 June 2015.

42- **The 17th international training course on uro-laparoscopy**, Urology & Nephrology Center, Mansoura, Egypt, 7 - 11 June, 2015.

43- **The 18th international training course on uro-laparoscopy**, Urology & Nephrology Center, Mansoura, Egypt, 13 - 16 December, 2015.

44- **The 19th international training course on uro-laparoscopy**, Urology & Nephrology Center, Mansoura, Egypt, 13-16 November, 2016.

45- **The 3rd reconstructive pediatric urology training course**, Urology & Nephrology Center, Mansoura, Egypt, 12-15, December 2016 Mansoura – Egypt.

SCIENTIFIC MEETINGS & CONFERENCES:

1- The **43rd Annual Congress of the Egyptian Urological Association** in conjunction with European Association of Urology, 2008, Hurghada, Egypt.

Shady A. Soliman, Ahmed A. Shokeir, Hassan AbolEnein, **Nashwa Barakat**, Esam Abou-Bieh, Ehab W. Wafa. *“Study of the effect of angiotensin converting enzyme inhibitor (Enalapril) function during and after relief of partial unilateral obstruction: A controlled canine study”*.

2- The **43rd Annual Congress of the Egyptian Urological Association** in conjunction with European Association of Urology, 2008, Hurghada, Egypt.

Shady A. Soliman, Ahmed A. Shokeir, Hassan AbolEnein, **Nashwa Barakat**, Esam Abou-Bieh, Ehab W. Wafa. *“Study of the effect of angiotensin receptor blocker (Losartan) on renal function during and after relief of partial unilateral obstruction: A controlled canine study with long- term follow- up”*.

3- **AUA Annual meeting) 19-23, 2012), Atlanta, GA USA.**

Yasser Osman, Sahar Hamed ,Yasser Osman , Fatma Elhoussenie , Nashwa Barakat , Mohamed Abd Elhameed, Mohamed Gaballa, Attallah Shaaban.

” Is solitary kidney more resistant to ischemia? Result of an experimental prospective study in canine model”.

4- CONFERENCE PAPER IN THE JOURNAL OF UROLOGY 193(4):E1014 · APRIL 2015.

Mohamed H, Zahran, AbdelazizM.Hussein, **Nashwa Barakat**, Amira Awadalla, SheryKhater, Ahmed M.Harraz, Ahmed Shokeir

MP79-10 SILDENAFIL ACTIVATES NRF2 DEPENDENT ANTI-OXIDANT GENES AND ANTI-APOPTOTIC BCL-2 GENE AND INHIBITS PRO-INFLAMMATORY CYTOKINES GENES IN RAT MODEL OF RENAL ISCHEMIA/REPERFUSION INJURY.

PUBLICATIONS:

- 1- **Purification of in vitro produced mouse monoclonal IgG2a of antihuman peripheral T-cell activity: In vivo potency determination;** Nashwa Barakat; M,S, Nour M, Abdelrazek. J. Union Arab Biol., Cairo, (2002).
- 2- **Co-administration of ketoconazole and Tacrolimus therapy. A transplanted rat:** Barakat N¹, Sabry A, El-Agroudy A, Hawas S, Abdel-Maboud M, El-Shair MA,

Ghoneim MA . Int. Urol & Nephrol. (2005).

- 3- **Venous Graft versus Epineural Flaps in Prevention of Neuroma Formation: AExperimental Study.** Ahmed Bahaa El-Din. Khaled El-Mosalemy and Nashwa Barakat. Egypt. J. Plastic Surg. Vol33.No.2.January; 51.57. (2008).
- 4- **Vein Graft Versus Silicone Tube as a Conduit for Peripheral Nerve Defects: An Experimental Study .** Ahmed Bahaa El-Din ,Khaled El-Mosalemy and Nashwa Barakat: Egypt. J. Plastic Surg. Vol. 33.No.2.July; 253.259. (2009).
- 5- **Age-Related Changed In Caroted Vascular Responses To Noradrenalin And Nitric Oxide Syntheses Inhibetor.** Soheir A. Helmy, Ahmed A. El-Gendy , Nisreen M. Omar and Nashwa Barakat* Benha M. J. Vol. 26 No 2 May.181- 187.(2009).
- 6- **Ionized alkaline water: new strategy for management of metabolic acidosis in experimental animals .**Abol-Enein H, Gheith OA, Barakat N, Nour E, Sharaf AE. Ther Apher Dial. Jun;13(3):220-4 (2009).
- 7- **Ischaemia-reperfusion injury in renal transplantation: the role of nitric oxide in an experimental rat model: Nashwa Barakat,** Abdel-Aziz M. Hussein*, Mahmoud Abdel-Maboud Mahasen A. El-shair Amal Mostafa and Hassan Abol-Enein: B J U Int. 1 0 6 , 1 2 3 0 – 1 2 3 6 :(2010).
- 8- **Recoverability of renal function after relief of chronic partial unilateral ureteral obstruction: study of the effect of angiotensin receptor blocker (losartan).** Soliman SA, Shokeir AA, Mosbah A, Abol-Enein H Barakat N, Abou-Bieh E, Wafa EW.Urology :75(4):848-52 (2010).
- 9- **Recoverability of renal function after relief of chronic partial unilateral ureteric obstruction: The effect of an angiotensin-converting enzyme inhibitor (enalapril)** Shady A. Soliman, Ahmed A. Shokeir *, Ahmed Mosbah, Hassan Abol-Enein, **Nashwa Barakat**, Essam Abou-Bieh, Ehab W. Wafa .*Arab Journal of Urology*- 9, 67–71(2011).
- 10-**Role of combination of L-arginine and α -tocopherol in renal transplantation**

ischaemia/reperfusion injury: a randomized controlled experimental study in a rat model Shokeir AA, **Barakat N**, Hussein AA, Awadalla A, Abdel-Aziz A, Abo-Elenin BJU Int. Aug;108(4):612-8. (2011)

11-Effects of combined erythropoietin and epidermal growth factor on renal ischaemia/ reperfusion injury: a randomized experimental controlled study. Hussein Ael-A, Shokeir AA, Sarhan ME, El-Menabawy FR, Abd-Elmoneim HA, El-Nashar EM, **Barakat NM**. BJU Int. Jan; 107(2):323-8. (2011).

12- Renal ischaemia/reperfusion injury: possible role of aquaporins. Hussein AA, El-Dken ZH, **Barakat N**, Abol-Enein H. Acta Physiol (Oxf). Mar; 204(3):308-16. (2012).

13-Systemic and renal haemodynamic changes in renal ischemia/reperfusion injury: impact of erythropoietin. Hussein AA, **Barakat N**, Awadalla A, Shokeir AA. Can J Physiol Pharmacol. 2012 Nov;90(11):1535-43 (2012).

14-Protection against renal ischaemia/reperfusion injury: A comparative experimental study of the effect of ischaemic preconditioning vs. postconditioning. Ahmed A. Shokeir, Abdelaziz M. Hussein, Amira Awadalla, Ahmed Samy ,Sheiri Khater, **Nashwa Barakat** (2012).

15-Combined Effect Of Angiotensin Receptor Blocker, And Antioxidants On Recoverability Of Renal Function After Relief Of Partial Ureteral Obstruction Of Solitary Kidney: Abdel-Aziz M ,Hussein, Azza Abdel-Aziz, Amira Awadalla **and Nashwa Barakat**: Benha. M.J. Vol 29 : No. 1. Jan, 2012.

16- Recoverability of renal functions after relief of partial ureteric obstruction of solitary kidney: impact of ferulic acid. Shokeir AA, Hussein AA, Soliman SA, Kamal MM, Abdel-Aziz A, Awadalla A, Rahim MA, **Barakat N**. BJU Int ,(2012).

17- Cell-seeded tubular acellular matrix for replacing a long circumferential

urethral defect in a canine model: Is it clinically applicable? : Nasr El-Tabey *, Ahmed Shokeir, Nashwa Barakat, Hoda El-Refaie, Mohamed Abd El-Hamid, Mahmoud Gabr. *Arab Journal of Urology*- 9, 67–71 (2012).

18- Does the afferent tubular segment in an orthotopic bladder substitution compromise ureteric antireflux property? An experimental study in dogs Hassan Abol-Enein *, Nuzhat Faruqi, Nashwa Barakat, Ahmed A. Shokeir. *Arab Journal of Urology*. 10- 125–130 (2012).

19- Is Solitary Kidney Really More Resistant to Ischemia? An Experimental Canine Study. Yasser Osman,* Sahar M. Hamed, Fatma E. Moustafa, Nashwa M. Barakat, Mohamed Abdelhameed, Ahmed Mosbah, Sahar Mansour, Mohamed A. Gaballah and Atallah Shaaban. *Journal Of Urology* . Vol. 190, 1110-1115. (2013).

20 - Biochemical Evaluation to Mesenchymal Stem Cells Therapy of Renal Tubulointerstitial Injury. Zahran F, EL-Gareb M, Nashwa Barakat, EL-Naggar I, *Indian J of App Resea*, Vol: 3, Issue : 10 - 2249-555, (2013)

21- Activation of Nrf2 by Ischemic Preconditioning and Sulforaphane in Renal Ischemia/Reperfusion Injury: a Comparative Experimental Study. A. A. Shokeir, N. Barakat, A. M. Hussein, A. A Awadalla , A. M. Harraz, S. Khater, K. Hemmaid, A. I. Kamal., *Physiol. Res.* 64: 313-323 ,(2014).

22- Activation of nuclear factor erythroid 2-related factor 2 (Nrf2) and Nrf-2-dependent genes by ischaemic pre-conditioning and post-conditioning: new adaptive endogenous protective responses against renal ischaemia/ reperfusion injury. A. A. Shokeir, A. M. Hussein, N. Barakat, A. Abdelaziz, M. Elgarba and A. Awadalla. *Acta Physiol*, 210, 342–353, (2014).

23- Sildenafil activates antioxidant and antiapoptotic genes and inhibits proinflammatory cytokine genes in rat model of renal ischemia /reperfusion injury. Mohamed H, Zahran, Abdelaziz M. Hussein, Nashwa Barakat, Amira Awadalla,

SheryKhater, Ahmed M.Harraz, Ahmed Shokeir., In. Urol Nephro,11255-015-1099-5, (2015).

24- Remote limb ischemia preconditioning (rIPC) activates antioxidant and antiapoptotic genes and inhibit proinflammatory cytokine genes in renal ischemia /reperfusion injury. AbdelazizM.Hussein, Ahmed M.Harraz, Amira Awadalla, **Nashwa Barakat**, SheryKhater , and Ahmed Shokeir,. Gen.Physiol. Biophys.35, 77-86, (2016).

25- Modulation of renal ischemia/reperfusion in rats by a combination of ischemic preconditioning and adipose-derived mesenchymal stem cells (ADMSCs) :Abdelaziz M. Hussein, **Nashwa Barakat**, Amira Awadalla, Mahmoud M. Gabr, Sherry Khater, Ahmed M. Harraz, and Ahmed A. Shokeir, Can. J. Physiol. Pharmacol. 94: 1–11 (2016).

Co-investigator in Science & Technology Development Fund (STDF):

1- STDF FUND* N0: (996)- Co Investigator: "Recoverability of renal function after relief of chronic unilateral uretric obstruction" (2009).

2- STDF FUND* No: (1146) Co Investigator: " Renal protection against ischemia" (2010).

3- STDF FUND* N0: (1082) Co Investigator: "Warm ischemia time for partial nephrectomy in solitary kidney: experimental study in canine model" (2010).

4- STDF FUND* N0: (1067) Co Investigator: "Experimental renal tubulointerstitial injury in mice: study of treatment with mesenchymal stem cells at different time intervals' (2010).

5- STDF FUND* N0 :(3948) Co Investigator: "Role of adipose stem cells in regeneration of injured kidney" (2012).

6- STDF FUND* N0 :(4228) A randomized controlled trial for evaluating renal protective effect of antioxidant (Selenium and vitamins A, C and E), calcium channel blocker (Losartan) against extracorporeal shock wave lithotripsy in renal injury (2012).

7- STDF FUND* NO(4713) “Prophylaxis Against Renal Ischemia Reperfusion Injury in Canine Model: Stem Cell Approach”

8- Member of the Competitive Excellence Project of Higher Education Institutions (CEPHEI) FUND.

9- STDF Grant for Centers of Scientific Excellence (**STDF-CSE**) Member of the Research team: “Identifying Changing Patterns And Risk Factors For Bladder Cancer In The Nile Delta: A Genome Wide & Molecular Approach.

10-Member of the management team of **Higher Education Institutes Labs Accreditation Project (HILAP).**

Referee in

- 1- King Abdul- Aziz City for Science and Technology (KACST), Saudi Arabia. since 2009.*
- 2- "Journal of Physiology and Biochemistry.*
- 3- Canadian Journal of Physiology and Pharmacology.*
- 4- American Journal of Nephrology.*

Referees



Prof. Dr. M. A. Ghoneim, 'M.D., M.D. (hon.)'.

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Prof. Dr. M. A. Sobh.

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Prof. Hassan Abou El-enin

Professor of Urology and Head of Directory Board Urology and Nephrology Center, Mansoura University, Mansoura, Egypt E-mail: unc@mans.edu.eg. Tel: +2-0502202222. Fax: +2-0502202717.

Prof. Mahmoud Abdel-Maboud

Professor of Veterinary surgery, Veterinary Surgery Department, Faculty of Veterinary Medicine, Zagazig University.

Prof. Sobhy M, hewedy

Professor of Plastic surgery, Plastic Surgery Department, Faculty of Medicine, Zagazig University, Egypt.
