

السيرة الذاتية



Bahy Ahmed Ali Said PhD Professor

Nucleic Acids Research Department, Genetic Engineering and Biotechnology Research Institute (GEBRI),
City of Scientific Research and Technological Applications, Alexandria, Egypt.

Nationality: Egyptian

Languages Known: English, Arabic and a little Chinese.

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Academic qualifications

University	Location/Field	Degree	Year Of Graduation
Cairo University	Cairo/Egypt/ Animal Breeding	Ph D	1999
Cairo University	Cairo/Egypt/ Animal Breeding	M Sc	1995
Asyut University	Asyut/Egypt/ Genetics	B Sc	1990

Work information

• 1991 –1995

Research Assistant at the Cell Biology Department, Genetic Engineering Division, National Research Center, Cairo, Egypt.

• 1995 –2000

Assistant Research at the Cell Biology Department, Genetic Engineering Division, National Research Center, Cairo, Egypt.

• 2000 –2005

Assistant Professor at Nucleic Acid Research Department, Genetic Engineering and Biotechnology Research Institute (GEBRI), Mubarak City for Scientific Research and Technology Applications, Alexandria, Egypt.

• April 3rd 2005 to August 9, 2010

Associate Professor at Nucleic Acid Research Department, Genetic Engineering and Biotechnology Research Institute (GEBRI), Mubarak City for Scientific Research and Technology Applications, Alexandria, Egypt.

• November, 2010 till now

Professor at Nucleic Acid Research Department, Genetic Engineering and Biotechnology Research Institute (GEBRI), City for Scientific Research and Technology Applications, Alexandria, Egypt.

• December, 2010 to November 2011

Vice Dean of Genetic Engineering and Biotechnology Research Institute (GEBRI)

Head of Nucleic Acid Research Department

• April, 2011 to November 2011

Dean of Genetic Engineering and Biotechnology Research Institute (GEBRI)

Scholarships

1. Scientist visit for 3 month at Genetics Department, Saarlandes University, Saarbrucken, **Germany**, (Grant from DFG), **2001**.
2. Two years post-doctoral scholarship (From **September, 2003 to September, (2005)** from Research Center for Reproductive Medicine, Department of Cell Biology and Genetics; Shantou University Medical College, 22 XinLing Road, Shantou, Guangdong 515041, People's Republic of **China**.
3. One year faculty position (**Associate professor**) from **September. 9st 2005 to October 2006**, Research Center for Reproductive Medicine, Department of Cell Biology and Genetics; Shantou University Medical College, 22 XinLing Road, Shantou, Guangdong 515041, People's Republic of **China**.
- 4- Two years post-doctoral scholarship (**From Feb, 2008 to Feb, (2010)**) from College of life Science, Shenzhen University, Shenzhen, People's Republic of **China**.

Honors & Awards

• Year 2014:

Distinguish Research Prize for 2014 in City for Scientific Research and Technology Applications.

• Year 2013:

Distinguish Research Prize for 2013 in City for Scientific Research and Technology Applications.

• Year 2012:

Distinguish Research Prize for 2012 in City for Scientific Research and Technology Applications.

• Year 2010:

Won El-Kheir (MEK) first annual Scientific Publications Award in life Science, 2010

• Year 2009:

Distinguish Research Prize for 2009 in Mubarak City for Scientific Research and Technology Applications.

• Year 2008:

Distinguish Research Prize for 2008 in Mubarak City for Scientific Research and Technology Applications.

• Year 2007:

- 1- Selected by **the International Biographical Centre (IBC)**, Cambridge, England to be included in the 2000 Outstanding Intellectuals of the 21st Century Awards Programme, 2007.
- 2- Included in the **25th Silver Anniversary Edition of Who'sWho in the World** to be published in November 2007.
- 3- Included in **10th Anniversary Edition of Who's Who in Science and Engineering (2008-2009)**.
- 4- Selected as **Scientific evaluator in Arab Science & Technology Foundation (ASTF)**, April 2007 to present. ASTF has been striving to support, promote and facilitate scientific research and development in the Arab World.

• Year 2006:

- 1- Awarded the prize for the **excellent academic paper** in the 10th Symposium of Shantou Municipal Society of Genetics, January 15, 2006 (**China**).
- 2- Awarded the prize of the State for the year **2005** in the field of **Advanced Technology Sciences**, June 10, 2006 (**Egypt**).
- 3- Awarded the **7th Royan International Research Award (2006), Tehran, Iran**. on the research article "**Ali, BA**; Huang, TH; Xie, QD (**2005**): Detection and Expression of Hepatitis B Virus X Gene in One and Two-Cell Embryos from Golden Hamster Oocytes in Vitro Fertilized with Human Spermatozoa Carrying HBV DNA. Molecular Reproduction and Development (70): 30-36. Published online December 2004. **This paper won the 2nd position among the best five papers in the world in the area of Reproductive Biomedicine.**
- 4- Included in 9th edition (2006-2007) of WHO'S WHO IN SCIENCE AND ENGINEERING (**USA**).

• Year 2005:

- The best post-doctor in Shantou University, Shantou, July 2005, **China**.
- One of the most promising 100 scientists of the world in the field of biology.member of the Lyon-based World Life Sciences and BioVision.Nxt 2005, Lyon, **France**.

• Year 2004:

- The Special Research Achievement, awarded by the Dean of Shantou University Medical College, Shantou, **China**.
- *The Special Research Achievement, awarded by the president of Shantou University, Shantou, China.*

Publications list
• **Research Articles**

- ❖ Rizwan Wahab, Javed Ahmad, Abdulaziz A. Al-Khedhairi, Maqsood A. Siddiqui, Quaiser Saquib, **Ali, B.A.**, and Javed Musarrat (2016): Zinc oxide Quantum Dots: Multifunctional candidates for arresting the C2C12 cancer cells and their role towards Caspase 3 and 7 genes. **RSC Advances**
- ❖ Huma Ali, Savita Dixit, Daoud Ali, Saud Alarifi, **Ali, B.A.** (2016): Isolation and evaluation of biological efficacy of quercetol in human hepatic carcinoma cells. **Drug Design, Development and Therapy 2016(10):155-162**
- ❖ Shams Tabrez Khan, Rizwan Wahab, Javed Ahmad, Abdulaziz A. Al-Khedhairi, Maqsood A. Siddiqui, Quaiser Saquib, **Ali, B.A.**, and Javed Musarrat (2015): CoO Thin Nanosheets Exhibit Higher Antimicrobial Activity Against Tested Gram-positive Bacteria Than Gram-negative Bacteria. **Korean Chemical Engineering Research53(5): 565-569**
- ❖ Won Jun Kang, Jonghwan Lee, Yong Seung Lee, Sujeong Cho, **Ali, B.A.**, Abdulaziz A Al-Khedhairi, Hyejung Heo, Soonhag Kim (2015): Multimodal imaging probe for targeting cancer cells using uMUC-1 aptamer. **Colloids and Surfaces B: Biointerfaces 136: 134-140**
- ❖ Jonghwan Lee, Kyung-ju Choi, Youngsok Choi, **Ali, B.A.** Abdulaziz A Al-Khedhairi, Soonhag Kim Kim (2015): Sperm DNA-mediated reduction of nonspecific fluorescence during cellular imaging with quantum dots. **Chemical Communications 51: 11584-11586**
- ❖ Hae Young Ko, Jonghwan Lee, Yong Seung Lee, Youngsok Choi, **Ali, B.A.**, Abdulaziz A Al-Khedhairi, Soonhag Kim (2015): Bioimaging of transcriptional activity of microRNA124a during neurogenesis. **Biotechnology letters, 37: 2333–2340**
- ❖ Jonghwan Lee, Seung U Kim, Dong Soo Lee, Yong Seung Lee, Hyejung Heo, **Ali, B.A.**, Abdulaziz A Al-Khedhairi, Soonhag Kim (2015): Bioimaging of microRNA124a-independent neuronal differentiation of human G2 neural stem cells. **FEBS Open Bio, 5: 647-655.**
- ❖ Lee, J.; Moon, S.U.; Lee, Y.S.; **Ali, B.A.**; Al-Khedhairi, A.A.; Ali, D.; Ahmed, J.; Al Salem, A.M.; Kim, S. (2015): Quantum Dot-Based Molecular Beacon to Monitor Intracellular MicroRNAs. **Sensors 15**, 12872-12883.
- ❖ Jonghwan Lee, Hyo Kang, Jang, H.; Lee, Y.J.; Lee, Y.S.; **Ali, B.A.**; Abdulaziz Al-Khedhairi, Soonhag Kim (2015): Simultaneous Imaging of Two Different Cancer Biomarkers Using Aptamer-Conjugated Quantum Dots. **Sensors 15**, 8595-8604.
- ❖ Jonghwan Lee, Hyo Kang, **Ali BA**, Abdulaziz Al-Khedhairi, Soonhag Kim (2015): Detection of intracellular microRNA using a self-assembling magnetic resonance beacon. **RNA & DISEASE: e705. doi: 10.14800/rd.705**
- ❖ Hyo Kang, Jonghwan Lee, **Ali BA**, Abdulaziz Al-Khedhairi, Soonhag Kim (2015): Bioimaging of miRNA biogenesis using a color-tunable molecular beacon. **RNA & DISEASE: e697. doi: 10.14800/rd.697.**
- ❖ Kim Soonhag, Ko Hae Young, Hyejung Heo and Sujeong Cho Jonghwan Lee, Yong Seung Lee, Ha-Na Gu, **Ali, BA**; Abdulaziz A. Al-Khedhairi (2015): Bioimaging of microRNA-294 expression-dependent color change in cells by a dual fluorophore-based molecular beacon. **ChemComm 51: 2159-2161.**
- ❖ Rizwan Wahab, Farheen Khan, RB Singh, Nagendra Kumar Kaushik, Javed Ahmad, Maqsood A Siddiqui, Quaiser Saquib, **Ali, BA**; Shams T Khan, Javed Musarrat, Abdulaziz A Al-Khedhairi (2015): Utilization of photocatalytic ZnO nanoparticles for deactivation of safranin dye and their statistical analytical applications. **Physica E 69:101-108.**

- ❖ Nadia Z Shaban, Halima H Salem, Mohamed A Elsadany, **Ali, BA**; Ehab M Hassona, Fayed AK (2014): Association between the Genetic Polymorphism of Glutathione S-Transferase Genes and the Different Stages of Hepatitis B Virus Infection in Egypt *Life Science Journal* 11(9):723-730.
- ❖ Nadia Z Shaban, Halima H Salem, Mohamed A Elsadany, **Ali, BA**; Ehab M Hassona, Fayed AK (2014): Alterations in lipid peroxidation and antioxidants in patients' with different stages of hepatitis b virus infection in Egypt. *Life Science Journal* 11(8):960-967.
- ❖ Alarifi, SA, Ali D, Verma, A, Alkahtani, S, **Ali, BA** (2013): Cytotoxicity and Genotoxicity of Copper Oxide Nanoparticles in Human Skin Keratinocytes Cells. *International Journal of Toxicology* 32(4):296-307.
- ❖ Alarifi, SA, Ali D, Alkahtani, S, Al Doaiss A Ahmed M, **Ali, BA**, AlKhedhairi, AA (2013): Histologic and apoptotic changes induced by titanium dioxide nanoparticles in the livers of rats. *International Journal of Nanomedicine* 8: 3937-3943.
- ❖ Alarifi, SA, Ali D, Alkahtani S, Siddiqui MA, **Ali, BA** (2013): Arsenic trioxide-mediated oxidative stress and genotoxicity in human hepatocellular carcinoma cells. *OncoTargets and Therapy* 6: 75-84
- ❖ Jo, MH; Lee, CH; **Ali, BA**, Alarifi, SA, AlKhedhairi, AA; Kim, SH (2012): A Bioinformatics Approach for In Vivo Imaging of Endogenous MicroRNA Targets During Neurogenesis. *Tissue Engineering and Regenerative Medicine*, 9(3):157-169. (IF: 3.122)
- ❖ Kang, WJ; Cho, YL; Chae, IR; Lee, JD; **Ali, BA**; AlKhedhairi, AA; Lee, CH; Kim, SH (2012): Dual optical biosensors for imaging microRNA-1 during myogenesis. *Biomaterials*, 33:6430-6437 (IF:7.404)
- ❖ Jo, MH; Lee, **Ali, BA**; AlKhedhairi, AA; Lee, CH; Kim, BJ; Haam, SG; Huh, YM; Ko, HY; Kim, SH (2012): A reverse complementary transferrin receptor-conjugated magnetic fluorescence nanoparticles. *Biomaterials*, 33:6456-6467 (IF: 7.404)
- ❖ Chen, D; Xu, GX; **Ali, BA**; Yong, KT; Roy, I; Zhou, CH; Wang, XM; Qu, JN; Prasad, PN; Niu, HB (2010): Uptake of transferrin-conjugated quantum dots in single living cells. *Chinese Optics Letters* 8 (10): 940-943 (IF: 0.967)
- ❖ **Ali, BA**; Salem, HH; Wang, XM; Huang, TH; Xie, QD; Zhang XY (2010): Effect of *Bacillus thuringiensis* var. *israelensis* Endotoxin on the Intermediate Snail Host of *Schistosoma japonicum*. *Current Research in Bacteriology* 3(1): 37 – 41.
- ❖ Chessa, B., Pereira, F., Arnaud, F., Amorim, A., Goyache, F., Mainland, I., Kao, R.R., Pemberton, J.M., Beraldi, D., Stear, M., Alberti, A., Pittau, M., Banabazi, M.H., Kazwala, R., Zhang, Y.-P., Arranz, J.J., **Ali, B.A.**, Wang, Z., Uzun, M., Dione, M., Olsaker, I., Holm, L.-E., Saarma, U., Ahmad, S., Marzanov, N., Eythorsdottir, E., Holland, M., Ajmone-Marsan, P., Bruford, M.W., Kantanen, J., Spencer, T.E., Palmarini, M.E. (2009): Revealing the history of sheep domestication using retrovirus integrations. *Science*, 324: 532-536.
- ❖ **Ali, BA**; Wang, XM; Xu, GX; Zhao, XF; Lin, XT; Zhang XY; Niu, HB (2009). Quantum Dots Biodistribution in Tissue Organs of Healthy Male and Female Mice. *Journal of Pharmacology and Toxicology* 4(6): 229 – 235

- ❖ Ali, BA; Salem, HH; Wang, XM; Huang, TH; Xie, QD; Zhang XY (2009): Detection of hepatitis B polymerase gene in early embryonic cells from golden hamster oocyte and human spermatozoa carrying HBV DNA. **International Journal of Virology** 5 (4): 164-169.
- ❖ Ali, BA; EL-Hanafy, AA; Salem HH. (2009): Genetic Biodiversity studies on IGFBP-3 gene in Egyptian sheep breeds. **Biotechnology in Animal Husbandry** 25:101-109.
- ❖ Hassan, GA; EL-Hanafy, AA; Ali, BA; Mohamed, MM; El-Zarkouny, SZ; Salem, MH (2007): Effect of Recombinant Bovine Somatotropin (RBST) on Milk production, Milk Composition and Reproductive Performance of Lactating Egyptian Buffaloes. **Buffalo J** 1:29-39.
- ❖ Ali, BA; Huang, TH; Salem, HH; Xie, QD (2006): Expression of hepatitis B virus genes in early embryonic cells originated from hamster ova and human spermatozoa transfected with the complete viral genome. **Asian Journal of Andrology** 8 (3):273-279.
- ❖ Ali, BA; Salem, HH; Huang, TH; Xie, QD (2006): Detection of full length HB S gene (1.2 kb) in one- and two-cell embryo originated from hamster oocyte and human spermatozoa by using nested-PCR. **Journal of Medical Sciences** 6 (6): 1015-1020.
- ❖ Salem, HH, Ali, BA; Huang, TH; Xie, QD (2006): Molecular characterization of novel *Bacillus thuringiensis* isolate with molluscicidal activity against the intermediate host of schistosomes. **Biotechnology** 5 (4): 413-420.
- ❖ El-Zaeem, SY; Ali, BA; Ahmed, MMM (2006): Random Amplified Polymorphic DNA Finger print and Genetic Similarity among Four Genera and Between Two Phenotypes of Cultured Carps in Egypt. **International Journal of Agriculture and Biology** 8 (1): 111-115.
- ❖ Ebdel Al-Mawgod A, Ahmed MMM; Ali, BA (2006): Application of molecular markers for hybrid maize (*Zea mays* L.) identification. **Journal of Food, Agriculture and Environment** 4 (2): 176-178.
- ❖ Salem, HH; Huang, TH; Ali, BA; Xie, QD (2006): Genetic similarity among four *Bacillus thuringiensis* subspecies based on random amplified polymorphic DNA (RAPD). **Journal of Biological Sciences** 6 (4): 781-786
- ❖ Salem, HH; Huang, TH; Ali, BA; Xie, QD (2006): Differentiation of *Bacillus thuringiensis* and *Escherichia coli* by the randomly amplified polymorphic DNA analysis. **Journal of Applied Sciences** 6 (7):1540-1546.
- ❖ Ali, BA; Huang, TH; Salem, HH; Xie, QD (2006): Influence of thermal cyclers on day-to-day reproducibility of random amplified polymorphic DNA fingerprints. **Biotechnology** 5 (3): 324-329.
- ❖ Ali, BA; Huang, TH; Xie, QD (2005): Detection and Expression of Hepatitis B Virus X Gene in One and Two-Cell Embryos from Golden Hamster Oocytes in Vitro Fertilized with Human Spermatozoa Carrying HBV DNA. **Molecular Reproduction and Development** (70): 30-36. Published online December 2004.

- ❖ El-Zaeem, SY. Ali, BA; Ahmed, MMM (2005): Random amplified polymorphic DNA finger Print and genetic similarity among four genera and between two phenotypes of cultured carps in Egypt. **Intentional Journal of Agriculture and Biology** (8):111-115.
- ❖ Ali, BA; Ahmed, MMM; El-Zaeem, SY (2004): Application of RAPD markers in fish: Part II – Among and within families; Cichlidae (freshwater), Mugilidae (Catadromus), Sparidae and Serranidae (marine). **International Journal of Biotechnology** 6 (4): 393-401.
- ❖ Ahmed, MMM; Ali, BA; El-Zaeem, SY (2004): Application of RAPD markers in fish: Part I – some genera (Tilapia, Sarotherodon and Oreochromis) and species (Oreochromis aureus and Oreochromis niloticus) of Tilapia. **International Journal of Biotechnology** 6 (1): 86-93.
- ❖ Ali, BA (2003): Genetics similarity among four breeds of sheep in Egypt through random amplified polymorphic DNA (RAPD). **African J. Biotechnology** 2:194-197.
- ❖ Soliman, SS; Ali, BA; Ahmed, MMM (2003): Genetic comparisons of Egyptian date palm cultivars (Phoenix dactylifera L.) by RAPD-PCR. **African J. Biotechnology** 2:86-87.
- ❖ Ali, BA (2003): Detection of DNA alteration in abnormal male of broiler chicken by random amplified polymorphic DNA (RAPD). **African J. Biotechnology** 2:153-156.
- ❖ Ali, BA; Ahmed, MMM; Aly, OM (2003): Relationship between genetic similarity and some productive traits in local chicken strains. **African J. Biotechnology** 2: 46-47.
- ❖ Ali, BA; Ahmed, MMM; Bahie El-Deen, M; Shalan, HM (2002): Genetic variability in the 17th generation of Japanese quail selected for high eggs and meat production. **Egyptian Poultry Sciences Journal** 22:59-71.
- ❖ Ali, AMM, Ahmed, MMM; Ali, BA (2000): Molecular differences and fingerprinting of normal and genetically engineered Saccharomyces cerevisie human insulin producer. **International Journal of Biotechnology** 2:391-397.

Review Articles

- ❖ Salem, HH, Ali, BA; Huang, TH; Qin DA; Wang Xiaomei; Xie, QD (2007): invited Review: Use of Random Amplified Polymorphic DNA Analysis for Economically Important Food Crops. **Journal of Integrative Plant Biology**, 49 (12): 1670–1680.
- ❖ Ali, BA; Huang, TH; Qin, DN; Wang, XM (2004): A review of random amplified polymorphic DNA (RAPD) markers in fish. **Review in Fish Biology and Fisheries** 14: (4): 443-453. Published online June 22nd 2005.

- ❖ Salem, HA, Ali, BA; Huang, TH; Qin, DN (2005): Review: Use of Randomly Amplified Polymorphic DNA (RAPD) Markers in Poultry Research. **International Journal of Poultry Science** 4(10): 804-811.

Books (International)

- **Bahy A. Ali (2015): Hepatitis B Virus (HBV) and Its Vertical Transmission.** LAP Lambert Academic Publishing, Editor: aberdos, ISBN: 978-3-659-71140-4.
- Aldous J. Huxley, **Bahy A. Ali**, P. Natarajan (2006): ***Biodiversity Conservation & Management***, Editors: A J Huxley, **B A Ali**, P Natarajan, International Centre for Bioresources Management & Biotech Consortia, Malankara Catholic College, Mariagiri, Kaliakkavilai, **India, 2006.**

Chapters

Ali, BA; Huang, TH; Qin, DN (2005): **Four chapters (4, 5, 6 and 14) In: *GENETIC RESOURCES AND BIOTECHNOLOGY*, Vol 1, pp: 74-124**, Editors: D. Thangadurai, T. Pullaiah, and MAA Pinheiro de Carvalho, Regency Publications, New Delhi, **India, 2005.**

• Gene Bank Records

- 1- **DQ524820**: Bacillus thuringiensis isolate (66) STP-like gene, partial sequence.
- 2- **DQ524821**: Bacillus thuringiensis isolate 66 16S ribosomal RNA gene, partial sequence.
- 3- **DQ524822**: Bacillus thuringiensis isolate 66 16S ribosomal RNA gene, partial sequence.
- 4- **DQ842516** Bacillus thuringiensis isolate 66 STPa-like gene, partial sequence.
- 5- **DQ842517** Bacillus thuringiensis isolate 66 STPb-like mRNA, partial sequence.
- 6- **DQ842518** Bacillus thuringiensis isolate 66 STPb-like mRNA, partial sequence.
- 7- **DQ842519** Bacillus thuringiensis isolate 66 STPb-like mRNA, partial sequence.
- 8- **DQ842520** Bacillus thuringiensis isolate 66 STPb-like mRNA, partial sequence.
- 9- **DQ842521** Bacillus thuringiensis isolate 66 STPa-like gene, partial sequence.

International Training Workshops

Training Workshop on **Marine Biotechnology and Marine Drugs** from 13 to 23 September **2005** in Qingdao at the Institute of Oceanology, Chinese Academy of Sciences, sponsored by Ministry of Science and Technology of the People's Republic of China (MOST).

National and International Memberships of Scientific Societies

- 1- Member, **The Population-Environment Research Network (PERN)**. From June 2006 to present. The Population Environment Research Network was launched in 2001 by the International Union for the Scientific Study of Population (IUSSP) and is co-sponsored by the International Human Dimensions Programme (IHDP) on Global Environmental Change. PERN has received in-kind support from the Center for International Earth Science Information Network (CIESIN) at **Columbia University**, which hosts the website.
- 2- Member, **Ibn Al-Haitham Center for Advancement of Science and Technology** from September 2005 to present.
- 3- Member, **The World Academy of Young Scientists (WAYS)** from January 2005 to present.
- 4- Member, **Lyon-based World Life Sciences and BioVision.Nxt 2005**, Lyon, **France** from March 2005 to present.
- 5- Member, **The Scientific Society of Food, Agriculture and Environment (ISFAE)**, Helsinki, **Finland**, from January 2005 to present.
- 6- Member, **The Biotechnology Community, Ireland**, from June 2006 to present.
- 7- Member, **The Biotechnology community, Ireland**, 2006 to present.

8- Member, The Arab Society for Biotechnology, University of Alexandria, Egypt, from January 2001 to present.

9- Member, Egyptian Association of Genetic Engineering &Biotechnology.
