

Curriculum Vitae

Personal Information:

- **Name:** Abo Bakr Mohamed eltayeb Abdel shakor
- **Gender:** Male
- **Date & place of birth:** February, 1970, Assiut, Egypt
- **Nationality:** Egyptian
- **Marital status:** Married, with three children
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Academic Qualifications:

- **Ph.D.** molecular cell biology, November, 2004, Nencki institute of experimental biology, Warsaw, Poland (with outstanding work certificate)
- **M. Sc.** Zoology (February, 1999) Faculty of Science, Assiut University, Egypt
- **B.Sc.** Zoology (June, 1993) Faculty of Science, Assiut University, Egypt (B.Sc. with honor)

Academic Positions:

- September 2011 till now: **Associate professor** of molecular cell biology, department of biology, faculty of Science, King Khalid university, Abha, Saudi Arabia
- May 2010 to September 2011: **assistant professor** of molecular cell biology, zoology dept. Faculty of science, Assiut University, Egypt.
- September 2009 to May 2010: **Lecturer** of molecular cell biology, Zoology Department, Faculty of Science, Assiut University, Egypt
- August 2006 to August 2008: **post doctoral** (JSPS) fellow in faculty of medicine, Tottori University, yonago city, Tottori ken, Japan.
- May 2006 to August 2006, **visitor researcher**, in faculty of medicine, Tottori university, yonago city, Tottori ken, Japan.
- February, 2005 to may 2006: **Lecturer** of molecular cell biology and histology, Zoology Department, Faculty of Science, Assiut University, Egypt
- March, 1999 to January 2005: **Assistant lecturer** of Zoology, Zoology Department, Faculty of Science, Assiut University, Egypt
- November, 1993 to February 1999: **Demonstrator** of Zoology, Zoology Department, Faculty of Science, Assiut University, Egypt

Work Experience:

- Teaching of the following courses in the faculties of Science, Education, Pharmacy, Agriculture and Veterinary medicine, Assiut University, Egypt, and King Khalid univ.
 - Cell Biology
 - Molecular biology
 - Histology
 - Histochemistry
 - Genetics
 - Biotechnology
 - immunology

Research Experience:

- 1- Working in the field of cell and molecular biology and signal transduction, concerning immunoreceptors and oncogenic receptor markers as transferrin receptor, her-nu, and role of sphingolipids, ASMase, SMS1 and 2 in this process.
- 2- Relationship between the two programmed cell death; apoptosis and autophagy, how does one initiate or suppress the other, and their molecular signaling cascade in cancer cells.
- 3- Intracellular vesicular trafficking controlling molecules and role of sphingolipids and ceramide in this process.

Educational and quality assurance experience

-Organizer of the zoology program, faculty of Science, Assiut University, Assiut Egypt 2010-2011

-Head of the quality and development unit of the biology program, King Khalid University, Abha, KSA, 2013-2014

List of Publications:

International publication

- **Abdel Shakor AB**, Atia M, Ismail IA, Alshehri A, El-Refaey H, Kwiatkowska K, Sobota A. (2014). Curcumin induces apoptosis of multidrug-resistant human leukemia HL60 cells by complex pathways leading to ceramide accumulation. *Biochim Biophys Acta*. 1841: 1672-1682 (impact factor 5.24)

- **Abdel Shakor AB**, Atia MM, Kwiatkowska K, Sobota A. (2011) : Cell surface ceramide controls translocation of transferrin receptor to clathrin-coated pits. **Cell Signal.**, Nov 9, 1-8, (impact factor 4.243)
- **Abdel Shakor AB**, Taniguchi M, Kitatani K, Hashimoto M, Asano S, Hayashi A, Nomura K, Bielawski J, Bielawska A, Watanabe K, Kobayashi T, Igarashi Y, Umehara H, Takeya H, Okazaki T. (2011) : SMS1-generated sphingomyelin plays an important role in transferrin trafficking and cell proliferation. **J Biol Chem.**, Aug 19. (impact factor 5.808)
- Korzeniowski M, **Abdel Shakor AB**, Makowska A, Drzewiecka A, Bielawska A, Kwiatkowska K, Sobota A.(2007): Fc gamma RII activation induces cell surface ceramide production which participates in the assembly of the receptor signaling complex. **Cell Physiol Biochem.** 20(5): 347-56. (impact factor 3.56)
- Kwiatkowska K, Hordejuk R, Szymczyk P, Kulma M, **Abdel-Shakor AB**, Płucienniczak A, Dołowy K, Szewczyk A, Sobota A. (2007): Lysenin-His, a sphingomyelin-recognizing toxin, requires tryptophan 20 for cation-selective channel assembly but not for membrane binding. **Mol Membr Biol.**24 (2): 121-34.(impact factor 3.87)
- **Abdel-Shakor**, A.B., Kwiatkowska, K. and Sobota, A. (2004): Cell Surface Ceramide Generation Precedes and Controls Fc^γRII Clustering and Phosphorylation in Rafts. **J. Biol. Chem.**, Vol. **279** (35) 36778-36787.(impact factor 5.5)
- **Abdel Shakor AB**, Czurylo EA, Sobota A. (2003): Lysenin, a unique sphingomyelin-binding protein. **FEBS Lett.** **8**; 542(1-3): 1-6. (impact factor 3.3)
- **Abdel-Shakor A.B.**, Strzelecka-Kiliszek A., Mrozinska K., Sobota A. (2004): Cell surface ceramide enables FcγRIIA to fuse with rafts and trigger signaling. **Eur. J. Biochem.**, 271 (Supplem.1) 136-137. .(impact factor 3.001)

- **Abdel-Shakor, A.B.**; Kwiatkowska, K.; Strzelecka-kiliszek, A. and Sobota, A. (2005): Ceramide generated in the outer leaflet of the plasma membrane controls signaling of FCIIA immunoreceptor. *Cell. Mol. Biol. Lett.* Vol. **10**, 97 supplement . (impact factor 1.45)

Other publications

- **Abdel-Shakor AB.**, Eldib, A.M. and Alawadhi, R. The role of elevated ceramide in transferrin induced cell growth and intracellular trafficking in Jurkat Human T Lymphocytes. 2009, **Eg. J. Zool** 52.
- **Abdel-Shakor, AB.** Enhancement of apoptotic cell death by dual autophagic stimuli in multidrug resistant Human leukemia HL60/ADR cells. 2009, **Assiut University Journal of Zoology**, 38 (2): 11-23.
- **Abdel-Shakor, AB.**, Glucose starvation induced autophagy is a potent apoptotic cell death mechanism in multidrug resistant HL60/ADR cells. 2010, **Assiut Veterinary Medical Journal** , 56 (124): 3-18.
- **Abdel-Shakor AB.** And Alawadhi, R. Role of Ceramide in Transferrin receptor movement in the plane of the plasma membrane. 2010, **Assiut Veterinary Medical Journal** , 56 (124): 19-29

Oral presentation, international conferences

- 1-**FEBS** committee, Nencki institute of experimental biology, Warsaw Poland (2003): Ceramide generation by ASMase activation upon FC gamma receptor II ligation
- 2- **Japanese lipid biochemistry** annual conference, Sapporo, Hokkaido Univ., Japan (2007): Vital role of plasma membrane SM in transferrin mediated cell growth and the clathrin-dependent internalization in lymphoid cells
- 3- **Sphingolipid therapy** annual conference ,Yonago, Tottori Univ., Japan (2008): Sphingomyelin/Ceramide controlling the rate of lysosomal targeting for degradation: Study of Sphingomyelin synthase1 and 2 in autophagosome degradation.
- 4- **2nd Young Scientists** conference, invited talk " Signal Transduction, in lymphoid cells", Assiut Univ., Assiut, Egypt. (1008).
- 5- 1st international conference of biological sciences (**ICBS**), Assiut Univ., Assiut, Egypt (2009), SMS1 generated Sphingomyelin in TfR induced cell growth.

Awards and fellowships

1-**JSPS** Postdoc fellowship (September 2006-August 2008), Faculty of medicine, Tottori Univ., Tottori, Japan.

2- Scientific research grant award, from polish academy of science, **KBN** 3 PO 4C 03623, (2002).

3-Prize of outstanding front line graduates **of Faculties of Science** allover Egypt, presented by Alazhar University, Egypt, (1994).

Web sites and references

http://www.researchgate.net/profile/Abo_Bakr_Abdel_Shakor/?ev=hdr_xprf

<http://www.ncbi.nlm.nih.gov/pubmed/?term=Abo+Bakr+Abdel+Shakor>