

Hassan M. E. Azzazy, PhD, DABCC, FACB

Education

- 1908-1984: B.Sc., Department of Biochemistry, Alexandria University, EGYPT
1986-1987: Post-Graduate Diploma, Department of Biochemistry, Alexandria University, EGYPT
1990-1994: Ph.D., Department of Biochemistry & Molecular Biology, Graduate School of Biomedical Sciences, University of North Texas Health Science Center, Fort Worth, Texas, USA.

Professional Certifications:

- May 2000 Diplomat, the American Board of Clinical Chemistry (DABCC) Washington DC, USA.
Specialization: Clinical Chemistry; Certification # 949
- August 2003 Diplomat, the American Board of Clinical Chemistry (DABCC) Washington, DC, USA.
Specialization: Molecular Diagnostics; Certification # 20

Current Research Interests:

Phage-Displayed Combinatorial Antibody Libraries. Antibody fragments are selected from a semi-synthetic scFv library against a variety of targets including cardiac biomarkers. Recombinant antibodies isolated against a variety of targets can be used to prepare diagnostic and therapeutic reagents for a variety of diseases and to develop novel nanodiagnostic strategies.

Biochemical markers for diagnosis of acute myocardial infarction and congestive heart failure. My laboratory is involved in the clinical evaluation of new cardiac marker tests and assessment of new strategies for utilizing panels of cardiac biomarkers for early diagnosis of myocardial injury, ischemia, CHF, and stroke.

Selected Publications:

Azzazy, H.M.E., Hong, K., Wu, M.C., and Gross, G.W. Interaction of cationic liposomes with cultured spinal neurons. *Brain Research* 695: 231-236, 1995

Gross, G.W., **Azzazy, H.M.E.**, Wu, M.C., and Rhoades, B.K. The use of neuronal networks on multielectrode arrays as biosensors. *Biosensors and Bioelectronics* 10: 553-567, 1995

Christenson, R.N. and **Azzazy, H.M.E.** Biochemical markers of the acute coronary syndromes. *Clinical Chemistry* 44(8): 1855-1864, 1998

Christenson, R.H., Vaidya, H., Landt, Y., Bauer, R.S., Green, S.F., Apple, F.A., Jacob, A., Magnuson, G.R., Nag, S., Wu, A.H.B., and **Azzazy, H.M.E.** Standardization of CK-MB mass assays: the use of recombinant CK-MB as a reference material. *Clinical Chemistry* 45(9): 1414-1423, 1999

Christenson, R.H. and **Azzazy, H.M.E.** *Amino acids*. In: *Tietz Textbook of Clinical Chemistry*, 3rd Edition. Burtis & Ashwood (Eds). PA: WB Saunders, pp. 444-476, 1999.

Beuerle, J.R., **Azzazy, H.M.E.**, Styba, G., Duh, S.H., and Christenson, R.H. Characteristics of myoglobin, carbonic anhydrase III and the myoglobin/carbonic anhydrase III ratio in trauma, exercise and myocardial infarction patients. *Clinical Chimica Acta* 294:115-128, 2000

Azzazy, H.M.E. and Christenson, R. H. Cardiac Markers of Acute Coronary Syndromes: Is there a case for point-of-care testing? *Clinical Biochemistry* 35: 13-27, 2002

Azzazy, H.M.E. and Highsmith, W.E. Jr. Phage Display Technology: Clinical Applications and Recent Advances. *Clinical Biochemistry* 35:425-445, 2002

Azzazy, H.M.E. and Christenson, R. H. B-type natriuretic peptide: physiologic role and assay characteristics. *Heart Failure Reviews* 8:315-320, 2003.

Azzazy, H.M.E., Highsmith WE Jr., Barlette J, Constantine N. Development of direct phage single chain variable fragment-polymerase chain reaction (ScFv-PCR) Assay. *Clin Chem* 2003; 49(6) Suppl # A-36.

Christenson R.H., Maynard S., Dunston R.C., **Azzazy H.M.E.**, Joy A., Antwi-Boasiato S., Duh S.H., DeFillipi C. Simultaneous B-Type Natriuretic Peptide and NT-ProBNP measurements for diagnosis of congestive heart failure in a community hospital cohort. American College of Cardiology, Annual Scientific Session, March 6-9, 2005; Orlando, Fl.

Contact Info.

Hassan M. E. Azzazy, PhD, DABCC, FACB
Department of Chemistry
The American University In Cairo
113 Kasr El-Aini Street
Cairo, EGYPT 11511
Tel: 797-5918
Fax: 795-7565
e-mail: hazzazy@aucegypt.edu

Personal Photo

