

CURRICULUM VITAE for Moustapha Kassem



Biographic data:

Name: Moustapha Kassem
Birth date: July 21st 1959

Education /Academic degrees:

November 1983 MBBCh., Kasr-Al-Aini Medical School, University of Cairo, Egypt.

January 1988 Danish medical license.

August 1994 PhD thesis (University of Aarhus, Denmark): Human bone cell proliferation and

differentiation: effects of growth hormone and sex steroids on osteoblasts in vitro.

November 1997 DMSc thesis (University of Aarhus, Denmark): Cellular and Molecular effects of growth hormone and estrogen on human bone cells.

Professional appointments:

Dec 89-Dec 92 Research Fellow, Osteoporosis Res. Unit, Aarhus Amtssygehus, Denmark.

Aug 93-July 95 Postdoctoral Research Fellow, Dept. Endocrinol. Metabol, Mayo Clinic, Rochester, Minnesota, USA.

May 2002 Consultant in Endocrinology, Diabetes and Metabolism, Odense University hospital, Odense, Denmark

April 2003 Professor of Mol. Endocrinology, Univ. of Southern Denmark, Odense. Head of the Molecular Endocrinology Clinic (KMEB), Department of Endocrinology, Odense University Hospital, Odense, Denmark.

Offices: Co-founder of Center for Clinical Stem Cell Therapy at Odense University Hospital; partner in the Danish Stem Cell Research Center (DASC; www.dasc.dk); member of the National Faculty at the Danish Stem Cell Research Doctoral School (www.dascdoc.dk), Editorial Board of Clinical Endocrinology, Biogerontology, Gerontology Journal.

Research and innovative activities: Osteoporosis, human mesenchymal stem cells (MSC) and osteoblastic differentiation; developed several normal and immortalized cell lines for studying human MSC biology and their differentiation potential; studied the phenomenon of biological aging of human bone cells and MSC; investigated the effects of hormones especially sex steroids and growth hormone on the biological characteristics of bone cells. First in Denmark to get approval and to generate human embryonic stem cells (hESC) lines, now having generated 6 hESC lines and are being used for cell differentiation studies.

Current funding: Grants from Danish Medical Research Council, private foundations, EU (from Blood to Bone) and from the Danish Agency for Science, Technology and Innovation.

Scientific publications: 99 peer-reviewed papers, 38 invited reviews/book chapters.

Selected publications:

-J. Simonsen, C.Rosada, N.Sernici, J. Justesen, K.Stenderup, S.Rattan, T.Jensen,

M.Kassem (2002) Telomerase expression extends lifespan and prevents senescence-associated impairment of osteoblast functions. *Nature Biotechnology* 20:592.

-Abdallah BM, Jensen CH, Gutierrez G, Leslie RG, Jensen TG, **Kassem M** (2004) Regulation of human skeletal stem cells differentiation by Dlk1/Pref-1. *J Bone Miner Res.* 19:841.

-Kratchmarova I, Blagoev B, Haack-Sorensen M, **Kassem M**, Mann M (2005) Mechanisms of divergent growth factor effects in mesenchymal stem cell differentiation. *Science* 308:1472.

-Foster LJ, Zeemann PA, Li C, Mann M, Jensen ON, **Kassem M** (2005) Differential expression profiling of membrane proteins by quantitative proteomics in a human mesenchymal stem cell line undergoing osteoblast differentiation. *Stem Cells* 23:1367.

-Abdallah BM, Ding M, Jensen CH, Ditzel N, Flyvbjerg A, Jensen TG, Dagnaes-Hansen F, Gasser JA, **Kassem M** (2007). Dlk1/FA1 is a novel endocrine regulator of bone and fat mass and its serum level is modulated by growth hormone. *Endocrinology.* 148:3111.

-Bentzon JF, Sondergaard CS, **Kassem M**, Falk E (2007). Smooth muscle cells healing atherosclerotic plaque disruptions are of local, not blood, origin in apolipoprotein E knockout mice. *Circulation.* 116:2053

-Abdallah BM, Boissy P, Tan Q, Dahlgaard J, Traustadottir GA, Kupisiewicz K, Laborda J, Delaisse JM, **Kassem M** (2007) DLK1/FA1 regulates the function of human bone marrow mesenchymal stem cells (hMSC) by modulating gene expression of pro-inflammatory cytokines and immune-response-related factors. *J Biol Chem.* 282:7339