

## CURRICULUM VITAE:

**Title:** professor, Dr. Moustapha Kassem

**Position:** Professor of Molecular Endocrinology

**Address:** (workaddress) Department of Endocrinology, University Hospital of Odense, Klørvænget 6, 4<sup>th</sup> floor, DK-5000 Odense C, Denmark

### Education:

November 1983 MBBCh., Kasr-Al-Aini Medical School, University of Cairo, Egypt.  
January 1988 Danish medical license.  
August 1994 PhD in Medicine, University of Aarhus, Aarhus, Denmark  
1993-1995 Endocrine Fellowship, Mayo Clinic, Rochester, MN, USA.  
November 1997 Doctorate of Science (DSc), University of Aarhus, Aarhus, Denmark  
2002 Specialist consultant in Internal Medicine and Endocrinology

### Positions held:

May 2002 Consultant in Endocrinology, Diabetes and Metabolism, Department of Endocrinology, Diabetes and Metabolism, University Hospital of Odense, Odense, Denmark  
April 2003 Professor of Molecular Endocrinology, University of Southern Denmark, Odense, Denmark and director for Laboratory for Molecular Endocrinology, ( pls see home page: [www.sdu.dk/KMEB](http://www.sdu.dk/KMEB))

### Memberships of scientific committees:

Board member of the Nordic Research Foundation, the Novo Nordisk foundation (2004-now), Member of the Scientific-Ethical Committee of Aarhus County (1999-2001). Board member of the Danish Society for Endocrinology (2002-2004), Board member of the Danish Bone and Tooth Society (2000-2005), Board Member of the Centre for Art and Science, University of Southern Denmark (2004-2007).

### Supervision:

Master Students 14, PhD students: 13, Post-docs: 11

### AWARDS:

1995 Investigator award, American Society for Bone and Mineral Research  
1996 Award for best research project, the Danish Society of Internal Medicine  
2003 Generalkonsul Ernst Carlsens foundation award  
2004 Research prize from Dansk Frimurer  
2008 Queen Ingrid's Lecture, Åbenrå Hospita  
2010 Prize for outstanding scientific communication, University of Southern Denmark, Denmark  
2012 Marie og August Krogh award, Danish Medical Association.  
2012 Prize for outstanding scientific achievement, Faculty of Health Sciences, University of Southern Denmark.

### Publication statistics:

Publication statistics:

Original publications 160, Invited reviews/book chapters 60

H-factor: 53, citation number 8399

### Physical description of the laboratory:

The laboratory will be located at the Medical Biotechnology Center (MBC), Winslowsparken 25, 1<sup>st</sup> floor. The lab is 181.3 m<sup>2</sup> and it includes two cell culture rooms, 5 rooms as general laboratory

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space, 5 accessory rooms and two rooms for office space. In addition, the laboratory has access to common facilities at MBC of 369 m<sup>2</sup> which includes lecture halls, conference rooms and social rooms. The group has expertise and infrastructure needed to perform state-of-the-art experiments of cell and molecular biology. The group has access to core-facility of flow cytometry and cell sorting and class 2 lab for gene transfer using viral vectors and it has a close connection with proteomic groups at the University of Southern Denmark, Odense.

### **Research focus:**

My research combine my clinical work with state-of-the-art technologies of cell and molecular biology to address clinical relevant problems. The current research focus is studying human mesenchymal stem cells (MSC) and human embryonic stem cell (hESC) differentiation to osteogenic cells (bone and cartilage forming cells); studying the phenomenon of biological aging of human bone cells and MSC and how the senescent phenotype can be rescued by genetic and non-genetic approaches. The group is also the driving force behind “Odense University Hospital [OUH] Center for Stem Cell Therapy” that aims at introducing stem cell-based therapies into clinical practice.

### **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* 20:592-597

Kratchmarova I, Blagoev B, Haack-Sorensen M, Kassem M, Mann M (2005) Mechanisms of divergent growth factor effects in mesenchymal stem cell differentiation. *Science* 308:1472-75

Larsen KH, Frederiksen CM, Burns JS, Abdallah BM, Kassem M (2009). Identifying A Molecular Phenotype for Bone Marrow Stromal Cells With In Vivo Bone Forming Capacity. *J Bone Miner Res.* 25:796-808

Qiu W, Hu Y, Andersen TE, Jafari A, Li N, Chen W, Kassem M (2010). Tumour necrosis factor receptor superfamily member 19 (TNFRSF19) regulates differentiation fate of human mesenchymal (stromal) stem cells through canonical Wnt signalling and C/EBP. *J Biol Chem* 285:14438-49

Eskildsen T, Taipaleenmäki H, Stenvang J, Abdallah BM, Ditzel N, Nossent AY, Bak M, Kauppinen S, Kassem M (2011). MicroRNA-138 regulates osteogenic differentiation of human stromal (mesenchymal) stem cells in vivo. *Proc Natl Acad Sci U S A.* 108:6139-44.