Teaching Portfolio

Moustapha Kassem
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Teaching experience

1.Pedagogical education
No formal education.

2.Teaching experience:
-Organize teaching course: Endocrine pathophysiology for biomedical students.
-Regular teaching for medical students (bedside, lecutures) and biomedical students
-Regular post-graduate teaching nationally and internationally in areas of osteoporosis pathophysiolog, metabolic bone disseases, mineral metabolism and stem cell biology.

3.Supervision:
Extensive experience with supervision and mentoring of junior scientists at different phases of scientific career:
PhD students
1.KaiKai Shi Identification of novel secreted factors by human stromal (skeletal) stem cells (MSC): studies on the role of KIAA1199 protein in MSC biology (China)
2.Mona Elsafadi Studies on isolation and characterisation of mesenchyma (skeletal) stem cell-like cells derived from human embryonic stem cells (Saudi Arabia)
3.Natalie Twine: Studying human mesenchymal stem cell differentiation into osteoblasts using RNA-sequencing technologies (collaboration with University of Sydney) (Australia)
4.Rahul D Prabha Studies on Cell- and Scaffold-based Bone Tissue Engineering for Accelerated Healing of Distraction Osteogenesis as well as Osseous Defects in the Craniofacial Region (India)
5.Asma Al-Shammary Studies on the Role of Cluster of Differentiation (CD) Markers in Skeletal (Mesenchymal) Stem Cells Undergoing Osteogenic and Adipogenic Differentiation (Saudi Arabia)
6.Walid Zaher Identifying factors that enhance homing of human mesenchymal stem cells to sites of tissue injury (Sauid Arabia)
7.Yi Hi (2014) Novel knee osteoarthritis-related biomarker development and their potential applications in compounds screening and disease diagnosis (Industrial Phd in collaboration with Nordic Bioscience) (China, Denmark)
8.Diyako Qanie (2014) Functional validation of novel secreted proteins by human mesenchymal stem cells during osteoblast differentiation (Kurdistan, Denmark).
9.Nicholas Willumsen. Measurement of estrogen receptor in postmenopausal healthy and cancerous breast tissues. Toward personalized estrogen treatment (Industrial Phd with Nordic Bioscience) (Denmark).
10.Linda Harkness (2013) Studies on derivation, characterization and differentiation of human embryonic stem cells to the osteogenic lineage (New Zealand, UK)
11.Olena Kucheryavenko (2013) Osteoblast-specific conditional overexpression of telomerase in mice: effects on bone phenotype and bone cells (Ukraine)
12.Abbas Jafari Kermani (2012) Protein kinases as targets for enhancing osteoblast differentiation of human mesenchymal stem cells (Iran, Denmark)
13.Kenneth Hauberg Larsen (2011) Characterizatio and functional studies of novel markers of human bone marrow derived mesenchymal stem cells and their use in identifyingMSC populations with osteogenic phenotype (Denmark)
14.Bodil-Cecilie Søndergård (2010) The pharmacological role of calcitonin in osteoarthritis (Industrial PhD with Nordic Bioscience) (Denmark)
15.Hamid Saeed (2010) To study the physiological role of telomerase enzyme drug osteoblast differentiation (Pakistan)
16.Lars Peter Kristensen (2009) Using quantitative proteomics methods for studying the secretome of human mesenchymal stem cells during osteoblast differentiation (Denmark)
17.Helle Christiansen (2008) Quantitative membrane proteomics in a human mesenchymal stem cell line undergoing osteogenic differentiation (Denmark)
18.Lasse Kjær (2008) The potential for the generation of nerve cells from human embryonic stem cells (Denmark)
19.Amer Mahmood (2008) Differentiation of human embryonic stem cells to mesoderm derived cells (Denmark)
20.Malte Christiansen (2008) Migratory and vascular properties of mesenchymal stem cells: qualities desired for cell therapy (Denmark)
21.David Kraft (2008) In vitro response of osteoblastic cells to mechanical loading and in vivo application of dental pulp derived stem cells for tissue engineering (collaboration with University of Aarhus) (Denmark)
22.Anne-Christne Bay Jensen (2007) The molecular mechanisms of postmenopausal osteoarthritis. An in vitro and in vivo

study on the effect of estrogen deficiency on articular knee cartilage (Denmark)
23.Vibeke Koudahl (2007) The effect of erythropoietin treatment on wound healing and muscle flap survival (Denmark)
24.Jacob Fog Bentzon (2007) Smooth muscle cell recruitment and remodelling during atherogenesis in mice (collaboration with University of Aarhus) (Denmark)

Master students:
1.Pernille Lund Ramsussen (2009) Osteogenic differentiation in 3D-osteospheres: novel approach for studying in vitro bone formation (Denmark)
2.Tilde Eskildsen (2008) Studying the role of microRNA in regulation of human mesenchymal stem cells into osteoblasts and adipocytes (Denmark)
3.Gunnhildur Asta Traustadottir (2008) Studying the biological role of Dlk1 in vivo and in vitro employing the human osteoblastspecific Dlk1 transgenic mice (Iceland)
4.Sijranke Post (2007) Analysis of the biological effects of Telomerase over-expression on bone mass and bone cells using a specific transgenic mouse model (the Neatherland)
5.Pia Thermann Johansen (2007) Adaptation of hESC culture conditions to SILAC
6.Martin Jakob Larsen (2007) In vitro differentiation of human embryonic stem cells into endodermal derived pancreas progenitor cells (Denmark)
7.Kenneth Hauberg Larsen (2006) Clonal heterogeneity in telomerase immortalized human mesenchymal stem cells (Denmark)
8.Dianne Susan Baunbæk (2006) Feeder-free culture of human embryonic stem cells (France)
9.Nicholas Ditzel (2005) Phenotype characterization of mice with forced telomerase expression in the skeleton (Denmark)
10.Heidi Rosenqvist (2005) Identification and quantitation of secreted proteins from human mesenchymal stem cells (Denmark)
11.Tine Engberg Thingholm (2005) Multidimentional separation technology (SAX-IMAC/TiO2) and mass spectrometry for identification of membrane phosphoproteins from human stem cells. (Denmark)
12.Patricia Anne-Marie Zeemann (2004) Proteome Analysis of membrane proteins in human mesenchymal stem cells (Canada)
13.Ditte Caroline Andersen (2003) Identification and characterization of new surface markers on the mesenchymal stem cell line: hMSC-TERT (Denmark)
14.Christian Clausen (2003) Parathyroid hormone stimulates proliferation and differentiation of human mesenchymal stem cell (Denmark)
15.Mandana Haack-Sørensen (2003) Effects of aging on characteristics of human mesenchymal stem cells. (Denmark)
16.Rune Ellegaard Lyngsø (2002, bachelor) The effect of insulin and glucoseon Malonyl-CoA in type2 diabetic human muscle cells in vitro (Denmark)

Medical students projects:
1.Christian Nørregård
2.Ingolf Ingolfsson
3.Ole Henrik Eng.
4.Elise Hoffmann Munk Nielsen
5.Mark Kristensen,
6.Lars Koch Hansen
7.Maria Persson
8.Casper Falster
9.Simon Stockman
10.Dina Awad Mohammad
11.Racha Yassine

Bachelor theses
1.Gunnhildur Asta Traustadottir 2005 Identification of the molecular mechanisms regulating the inhibitory effect of Dlk1 on hMSC osteoblast and adipocyte differentiation
2.ITEK student Sohrab Ayoubi from February 2014 to August 2014

Post-doctoral fellows:
Michaela Tencerova (the Czech republic)
Li Chen (China)
Florence Figeac (France)
Weimin Qiu (China)
Justyna Kowal (Poland)
Basem Abdallah (Egypt)

Steen B Laursen (Denmark)
Ulrik Frandsen (Denmark)
Tanya Prokohorova (Russia)
Casper Møller Frederiksen (Denmark)

Jorge Burns (Spain, UK)
Nedime Serakinci (Cyprus)
Majken Siersbæk (Denmark)
Lea Bjerre Hokland (Denmark)
Rikke K Andersen (Denmark)
Kenneth Hauberg Larsen (Denmark)
Amer Mahmood (Denmark)

Researchers:
Birgitte Elsnab (Denmark)
Ann Dorte Pørneki (Denmark)
Tom E Andersen (Denmark)
Torben Helledie (Denmark)
Jørgen Jensen (Denmark)
Peter Skagen (Denmark)
Mohammed Essam (Egypt)
Maria Nielsen (Denmark)

International visiting scientists:
Asif Khan (India) 2008-2009
Boby Edwin (India) 2009
Mohammad Rumman (India) 2013
Dhanya Gangadharan (India) 2012
Pankaj Kumar Keshari (India) 2012-2013
Marissa Chatterjee (India) 2011
Mohamed Essam (Egypt) 2009
Naresh Tripathy (India) 2006
Chi Chih Chaang/Claire (Hong Kong) 2014
Longhai Zhou (China) 2012
Qi Zhang/Cathy (China) 2012
Yu Zhentao (China) 2004
Wen Qin/Vian Chin (China) 2005
Sun Yuanming (China)2007
Hanna Taipaleenmaki (Finland) 2008-2010
Sanfra Milena Bermeo Serrato (Australia) 2014
Elizabeth Wright (UK) 2012
May Al-Nbaheen (Saudi Arabia) 2009
Abdallah Aldahmash (Saudi Arabia) 2009
Amal Al-Rabiah (Saudi Arabia) 2009
Noha Al-Shuwayer (Saudi Arabia) 2010
Maria Luisa (Spain) 2005
Suna Kim (South Korea) 2012
Hyun Sook Hong (South Korea) 2012
Klaus Matthaei (Australia) 2010
Sebastian Knobel (Germany) 2007
Alessandro Lambertini (Italy) 2007
Ariane Tormin (Sweden) 2009
Hongzhe Li (Sweden) 2012
Roshanak Ghazanfari (Sweden) 2012
Asli Karacan (Turkey) 2013
Klaus Matthei (Australia) 2010
Jack Dowie (UK) 2009
Philipp Dillschnider (Germany/Aarhus) 2011
Jonathan Dawson (UK)

Danish visiting scientists
Jacob Bentzon 2003-2004
Morten Andersen (Aarhus) 2008

4.Reviewer functions:
Regular reviewer for Norwegian medical research council, Medical Research council of Finland, Welcome Trust (UK), INSERM (France), The Wolksvagen foundation (Germany). Has function as Phd examiner both nationally and internationally and Has evaluated Dr.Med.Science theses. Has evaluated candidates for professor and adjunct professor positions at both national and international universities.