King Abdullah International Medical Research Center (KAIMRC) is hosting the second Stem Cell Symposium “Stem Cells in Science and Medicine” on 23 and 24 April 2014 after the first successful stem cell meeting that was held by KAIMRC in 2012. This upcoming symposium which will be held in the Convention Center Hall at King Saud bin Abdulaziz University for Health Sciences will be fostered by the attendance of national and international stem cell scientists who have specialized knowledge in stem cells and will be a unique opportunity for valuable scientific cross exchange and discussion. Dr. Mohamed Abumaree, the chairman of the organizing and scientific committees said that the ambitious goal of this symposium is to gather stem cell specialists from top research institutes, who will discuss the latest revolutions and present current scientific knowledge on stem cells and their potential medical applications. In addition, this symposium consists of a series of lectures focusing on the translation of stem cell basic medical research into the clinic as Dr. Abumaree indicated.
**Dr Mohamed Abumaree** from King Saud bin Abdulaziz University for Health Sciences/ King Abdullah International Medical Research Center will discuss the immunosuppressive properties of human stem cells and their potential in the treatment of autoimmune diseases.

**Professor Katarina Le Blanc** from Karolinska Institutet, Sweden will discuss the application of stem cells in patients with graft-versus-host disease and various autoimmune disorders.

**Dr Cecilia Götherström** from Karolinska Institutet, Sweden will share with us her experience in the transplantation of fetal stem cells in severe osteogenesis imperfect patient.

**Dr Ornella Parolini** from Brescia, Italy will share with us the therapeutical potential of human stem cells in the treatment of inflammatory and fibrotic disorders.
Dr. Graham C. Parker from Wayne State University School of Medicine, USA will present the therapeutical intervention of stem cells in a pediatric motor neuron disease.

Dr Stefan Scheding from Lund University, Sweden will describe his method of isolating stem cells from human bone marrow and their medical interventions.

Dr Fang-Xu Jiang from the University of Western Australia, Australia will present the expansion of functional insulin-secreting cells and their therapeutical potential in Type 1 diabetes.

Dr Bill Kalionis from the University of Melbourne, Melbourne, Australia will present how it is possible to treat pregnancy disorders such as preeclampsia using human stem cells.
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<th>Professor Larry Chamley from the University of Auckland, New Zealand will discuss his discovery of new stem cells from human placenta “Trophoblast Stem Cells” and their therapeutical values in medicine</th>
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<td>Dr Ashraf Madhoun from Dasman Diabetes Institute, Kuwait will discuss the molecular analysis of stem cells and their roles in the development of heart</td>
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<td>Professor Sherif Karam from United Arab Emirates University, Emirates will discuss the latest development in the field of stomach stem cells and their roles in homeostasis and carcinogenesis</td>
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<td>Dr Nehad Alajez from King Saud University, Saudi Arabia will present the complex crosstalk between stem cells and tumour cells and how this will help in cancer intervention</td>
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Dr Jasmeen Merzaban from King Abdullah University of Science and Technology (KAUST) will present her latest research on the mechanism underlying the migration of human stem cells towards damaged tissue during the repair process.

Dr Wassim Abou-Kheir from American University of Beirut, Lebanon will present his latest research on prostate cancer stem cells.

Dr Amer Mahmood from King Saud University, Saudi Arabia will present the molecular signature of bone marrow stem cells during osteoblast differentiation and how it is important in the development of cellular therapy.