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# The 49th iCeMS SEMINAR

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2010 3. 30 (火)  
13:00-14:00

演 題： **Therapeutic and Research Potential of  
Human Stem Cells**

講演者： **Dr. Stephen Minger**  
R&D Leader Cell Technologies, GE Healthcare Life Sciences

場 所： 京都大学 再生医科学研究所  
東館5階 ルーフテラス

The real potential of stem cells has never been closer to reality as it is now, both in the therapy field and as an enabling technology in drug research and development. There has been significant interest in the therapeutic and scientific potential of stem cells since reconstitution of the haematopoietic system was first realized by bone marrow transplantation in the 1960s.

On the therapy side, the isolation of tissue-specific, multipotent stem cells from adult organs and the derivation of pluripotent human embryonic stem cells, could offer the potential for regeneration of a number of different tissues and organs susceptible to age-related degenerative conditions and traumatic injury.

While researchers around the world are looking at the possibilities to repair heart tissue damaged by myocardial infarction, to replace neuronal cells lost in Parkinson's and Alzheimer's diseases, to transplant new insulin producing cells for diabetics and myelinating cells for individuals afflicted with multiple sclerosis, and to replace bone and cartilage lost through aging and inflammatory disease, researchers are hoping to revolutionize drug discovery and investigation. The generation of specific populations of defined subtypes of human cells has tremendous potential to enhance the understanding of disease at a cellular level.

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