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Adult Stem Cell Research and Translational Studies for Reparative Medicine

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While basic research on embryonic stem cells raises the expectation of a broad range of “regenerative medicine”, stem cells derived from bone marrow, mobilized blood and cord blood/placenta can also degenerate non-hematopoietic cell types of multi-lineages and has potential application for tissue repair or “reparative medicine”. Preclinical and/or clinical studies on myocardial infarction, osteogenesis imperfecta, liver failure, ischemic vascular disease and neurodegenerative disorders will be reviewed in this presentation. These are still early days, but some of the results have been remarkable.