

5<sup>th</sup> International Conference on

# Tissue Engineering & Regenerative Medicine

September 12-14, 2016 Berlin, Germany

## The uses of adipose-derived mesenchymal stem cells

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Adipose-derived stem cells (ASCs) are most commonly obtained from white adipose tissue, and exhibit multi-potency, displaying osteogenic, myogenic, adipogenic and chondrogenic properties. As a result, ASCs are becoming progressively more promising for the treatment of debilitating diseases such as cardiovascular conditions and diabetes mellitus, and starting to play a fundamental in the field of regenerative medicine and tissue engineering. Perhaps one of the main areas of interest concerns gynecological applications whether this is for the regeneration of tissue following a mastectomy or vaginal rejuvenation, the hope is for long-term effects that will replace current limited techniques, and dramatically improve the lives of post-menopausal women in particular.

### Biography

Alexandra Baranowski is currently studying Biological Natural Sciences at the University of Cambridge, UK. She has spent a month in Madagascar over her penultimate summer of school researching on the Behavioral Patterns of the Coquerel's sifaka lemur, to contribute to the conservation efforts of local and international scientists stationed there. She is presently in the Committee of the Hellenic Society of Cambridge University.

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