

**Engineering tissues using adipose-derived stem cells:  
from 3D models to *in vivo* wound repair**

Julie Fradette (PhD) is a Full Professor at Université Laval, department of Surgery, Faculty of Medicine. She is a researcher at the Centre LOEX de l'Université Laval, at the research center of the CHU de Québec-Université Laval since 2005. Her research activities focus on adipose-derived stem/stromal cells (ASCs) and their use in regenerative medicine. Her expertise encompasses tissue engineering of skin and various microvascularized connective tissues including human adipose and bone-like tissues. During her graduate studies, she studied skin epithelial stem cells for improvement of skin substitutes. Her postdoctoral training at the University of Pittsburgh established that ASCs and adipose tissue can be used for gene delivery using herpes-based viral vectors. Her research program is now focused on how human mesenchymal cell's potential can be harnessed for tissue/organ reconstruction using cell-based, scaffold-free strategies. She is the director of the ThéCell network for cellular and tissular therapies for the province of Québec, Canada.



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