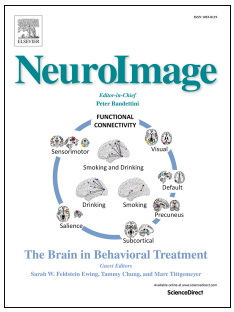
Accepted Manuscript



Neuroimage special issue on microstructure - Editorial

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PII: S1053-8119(18)30677-3

DOI: 10.1016/j.neuroimage.2018.07.061

Reference: YNIMG 15152

To appear in: *NeuroImage*

Please cite this article as: Stikov, N, Alexander, D., Pike, G., Neuroimage special issue on microstructure - Editorial, *NeuroImage* (2018), doi: 10.1016/j.neuroimage.2018.07.061.

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In August 2016 Montreal hosted a workshop titled ‘Toward a Super-BigBrain: Promise and Pitfalls of Microstructural Imaging.’ The workshop was organized with the goal of bringing together imaging scientists interested in probing brain microstructure with MRI. The event was well-documented on Twitter using the hashtag #superbigbrain, as participants tweeted from packed conference rooms, loud Montreal restaurants, and quiet sunsets on the St. Lawrence river. And then Ben Inglis from UC Berkeley (AKA @practiCalfMRI) sent the tweet below:

Inspired by the workshop atmosphere, we pitched Ben’s idea to Neuroimage and they gave us a green light. So here we are, almost two years later, with an impressive roster of contributors who came in support of this special issue. In the figure below you will see a word cloud made from the titles and abstracts of all papers included in the special issue.

The usual suspects are all there. Diffusion has a central place, though most reviews address it in the broader context of hardware (Jones et al.), phantoms (Fieremans and Lee), validation strategies (Dyrby et al.), or techniques that complement it, such as myelin and g-ratio imaging (Campbell et al.), diffusion-weighted magnetic resonance spectroscopy (Palombo et al.), multi-modal MRI (Cercignani and Bouyagoub), magnetization transfer (Sled) and relaxometry (Does; Kiselev and Novikov).

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