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Mark Wilmshurst



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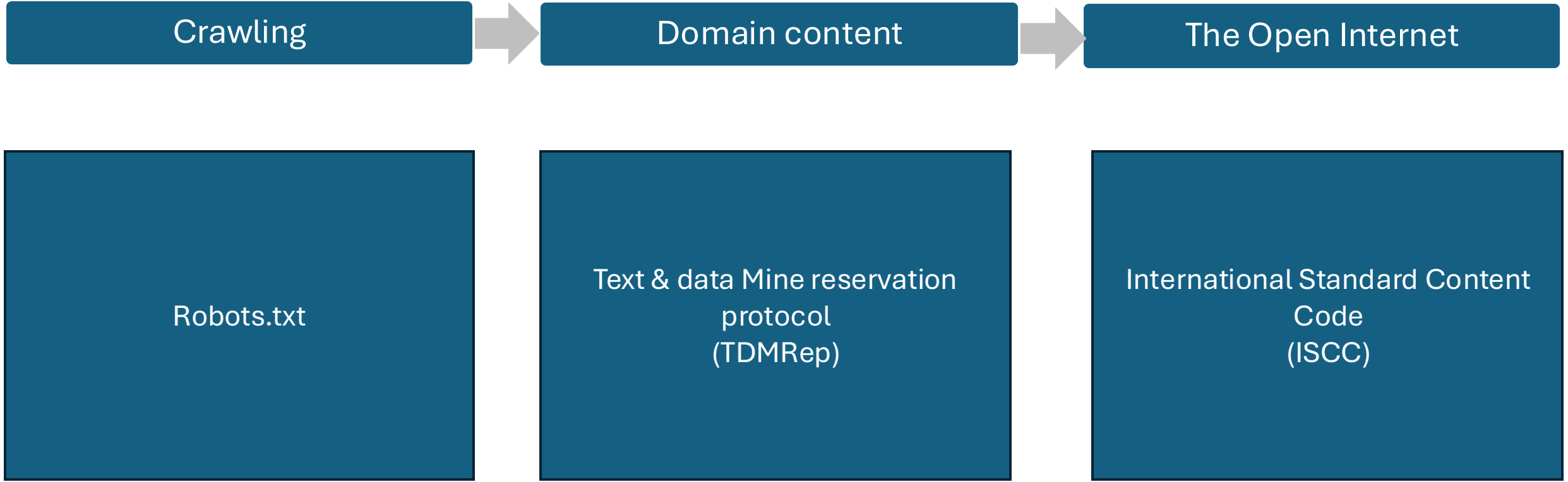
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Outline

Abstract

Keywords

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2. Apical plasma membrane of neuroepithelial c...

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FEBS Letters

Volume 584, Issue 9, 3 May 2010, Pages 1659-1664



Review

The intriguing links between prominin-1 (CD133), cholesterol-based membrane microdomains, remodeling of apical plasma membrane protrusions, extracellular membrane particles, and (neuro)epithelial cell differentiation


Edited by Wilhelm Just

Denis Corbeil ^a, Anne-Marie Marzesco ^b, Michaela Wilsch-Bräuninger ^b, Wieland B. Huttner ^b  

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Abstract

Prominin-1 (CD133) is a cholesterol-interacting pentaspan membrane protein concentrated in plasma membrane protrusions. In epithelial cells, notably neuroepithelial stem cells, prominin-1 is found in microvilli, the primary cilium and the midbody. These three types of apical membrane protrusions are subject to remodeling during (neuro)epithelial cell differentiation. The protrusion-specific localization of prominin involves its association with a distinct cholesterol-based membrane microdomain. Moreover, the three prominin-1-containing plasma membrane protrusions are the origin of at least two major subpopulations of prominin-1-containing extracellular membrane particles. Intriguingly, the release of these particles has been implicated in (neuro)epithelial cell differentiation.

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Frontiers in Membrane Biochemistry

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