

## Accepted Manuscript

Title: Regulation of cell polarity by cell adhesion receptors

Authors: Klaus Ebnet, Daniel Kummer, Tim Steinbacher,  
Amrita Singh, Masanori Nakayama, Maja Matis

PII: S1084-9521(17)30188-X  
DOI: <http://dx.doi.org/doi:10.1016/j.semcdb.2017.07.032>  
Reference: YSCDB 2295

To appear in: *Seminars in Cell & Developmental Biology*

Received date: 31-5-2017  
Revised date: 12-7-2017  
Accepted date: 20-7-2017

Please cite this article as: Ebnet Klaus, Kummer Daniel, Steinbacher Tim, Singh Amrita, Nakayama Masanori, Matis Maja. Regulation of cell polarity by cell adhesion receptors. *Seminars in Cell and Developmental Biology* <http://dx.doi.org/10.1016/j.semcdb.2017.07.032>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



## Regulation of cell polarity by cell adhesion receptors

Klaus Ebnet<sup>1</sup>, Daniel Kummer<sup>1</sup>, Tim Steinbacher<sup>1</sup>, Amrita Singh<sup>2,3</sup>, Masanori Nakayama<sup>4</sup>,  
Maja Matis<sup>2,3</sup>

<sup>1</sup>Institute-associated Research Group: Cell adhesion and cell polarity, Institute of Medical Biochemistry, ZMBE, University of Münster, Germany;

<sup>2</sup>Institute of Cell Biology, ZMBE, University of Münster, Germany;

<sup>3</sup>Cells-In-Motion Cluster of Excellence (EXC1003-CiM), University of Münster, Germany;

<sup>4</sup>Laboratory for Cell Polarity and Organogenesis, Max-Planck-Institute for Heart and Lung Research, Bad Nauheim, Germany.

Addresses for correspondence:

Klaus Ebnet  
Institute of Medical Biochemistry, ZMBE  
Von-Esmarch-Str. 56  
D-48149 Muenster  
Germany  
Tel.: ++49-(0)251-8352127  
FAX: ++49-(0)251-8356748  
e-mail: ebnetk@uni-muenster.de

Maja Matis  
Institute of Cell Biology, ZMBE  
Von-Esmarch-Str. 56  
D-48149 Muenster  
Germany  
Tel.: ++49-(0)251-8357183  
FAX: ++49-(0)251-8358616  
e-mail: matism@uni-muenster.de

## Highlights

- Cell polarity is a property of almost all eukaryotic cells
- Cell polarity is regulated by intrinsic and extrinsic cues
- Cell-cell adhesion receptors act as positional cues for polarity proteins
- Cell-cell adhesion receptors trigger signals to activate polarity proteins
- Cell-cell adhesion receptors regulate very diverse aspects of cell polarity

Download English Version:

<https://daneshyari.com/en/article/8479475>

Download Persian Version:

<https://daneshyari.com/article/8479475>

[Daneshyari.com](https://daneshyari.com)