**Investigating the adhesion of immune cells**

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We pledged to investigate the adhesion of monocytes, macrophages and dendritic cells (DCs) with three high sensitivity techniques and to set up a biophysical model. Exceeding the plans we applied antibody blocking and counted integrins on cells and ligands on the adhesive surface. We detected significant difference in the adhesion force and structure of the adhesion zone between the three cell types. Blocking CD11c decreased cell adhesion to fibrinogen, while blocking CD11b enhanced the adhesion of macrophages and DCs. We suggest a new mechanism critically influencing the adhesion properties of cells: the two similar receptors compete for the ligand.