

PublisherInfo		
PublisherName	:	BioMed Central
PublisherLocation	:	London
PublisherImprintName	:	BioMed Central

Recycling PECAM

ArticleInfo		
ArticleID	:	4700
ArticleDOI	:	10.1186/gb-spotlight-20030214-01
ArticleCitationID	:	spotlight-20030214-01
ArticleSequenceNumber	:	52
ArticleCategory	:	Research news
ArticleFirstPage	:	1
ArticleLastPage	:	2
ArticleHistory	:	RegistrationDate : 2003-2-14 OnlineDate : 2003-2-14
ArticleCopyright	:	BioMed Central Ltd2003
ArticleGrants	:	
ArticleContext	:	130594411

Jonathan B Weitzman

Email: jonathanweitzman@hotmail.com

Diapedesis, also known as transendothelial migration (TEM), is the process by which leukocytes squeeze through endothelial cell layers at sites of inflammation. In the February 13 *Nature* Mamdouh *et al.* describe how membrane targeting of the endothelial cell adhesion molecule **PECAM** plays a role in leukocyte migration (*Nature* 2003, **421**:748-753). They found that about one third of the cell's PECAM is localized in a subjunctional reticulum structure below the cell surface. Diapedesis has an effect on PECAM localization and recycling between membranes. TEM specifically involves the recycling of PECAM targeting to the junction where the migrating leukocyte is crossing. Regulating membrane movement may be a novel strategy for anti-inflammatory therapies.

References

1. Traffic signals for lymphocyte recirculation and leukocyte emigration: the multistep paradigm.
2. *Nature*, [<http://www.nature.com>]
3. PECAM-1 is required for transendothelial migration of leukocytes.