

THE DISTILLERY

This week in therapeutics

| Indication | Target/marker/pathway | Summary | Licensing status | Publication and contact information |
|-------------|--------------------------|--|--|---|
| Hematology | | | | |
| Neutropenia | E selectin (SELE; CD62E) | Mouse studies suggest blocking SELE could help prevent neutropenia during chemotherapy or radiation therapy. In mice receiving chemotherapy or radiotherapy, <i>Sele</i> knockout increased hematopoietic stem cell (HSC) survival and leukocyte numbers compared with <i>Sele</i> expression. In wild-type mice receiving chemotherapy, pretreatment with the pan-selectin antagonist GMI-1070 promoted HSC quiescence and self-renewal and neutrophil recovery, and it led to increased survival compared with saline pretreatment. Ongoing work includes designing SELE-specific antagonists and optimizing for bioavailability. GMI-1070, a pan-selectin inhibitor from GlycoMimetics Inc. and partner Pfizer Inc., is in | Multiple issued and pending patents covering GMI-1070 and related pan- selectin antagonists; licensed to Pfizer | Winkler, I.G. <i>et al. Nat. Med.</i> ; published online Oct. 21, 2012; doi:10.1038/nm.2969 Contact: Jean-Pierre Lévesque, Mater Medical Research Institute, South Brisbane, Queensland, Australia e-mail: jplevesque@mmri.mater.org.au Contact: Ingrid G. Winkler, same affiliation as above e-mail: iwinkler@mmri.mater.org.au |

Phase II testing to treat sickle cell disease.

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