

**This week in therapeutics**

| Indication             | Target/marker/<br>pathway    | Summary  | Licensing status                        | Publication and contact<br>information   |
|------------------------|------------------------------|--|---|--|
| <b>Transplantation</b> |                              |  |   |  |
| Transplant rejection   | Aminoacyl-tRNA<br>synthetase | An SAR study suggests that analogs of antibacterial 5'-O-(N-L-aminoacyl)-sulfamoyladenosine might be useful aminoacyl-tRNA synthetase inhibitors that could be used as immunosuppressants. In a mixed lymphocyte reaction assay, the most potent compound had an IC <sub>50</sub> value of 80 nM, a value comparable to that of the generic immunosuppressive cyclosporine A. Next steps include preclinical testing of the analogs as immunosuppressants. | Patent application<br>filed; unlicensed | Van de Vijver, P. <i>et al.</i> <i>J. Med. Chem.</i> ;<br>published online April 26, 2008;<br>doi:10.1021/jm8000746<br><b>Contact:</b> Piet Herdewijn, Catholic<br>University of Leuven,<br>Leuven, Belgium<br>e-mail:<br><a href="mailto:piet.herdewijn@rega.kuleuven.be">piet.herdewijn@rega.kuleuven.be</a> |