



This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Infectious disease				
Gastrointestinal infection	Giardia lamblia	In vitro and in vivo studies suggest that 5-nitroimidazole analogs could overcome metronidazole resistance to treat G. lamblia infection. In vitro, 2-ethenyl-5-nitroimidazole derivatives had antigiardial activity comparable to that for metronidazole but with less cytotoxicity. In a mouse model of G. lamblia infection, six analogs cleared infection more effectively than comparable doses of metronidazole. Additional in vitro testing showed that 10 analogs were active against at least 1 strain of metronidazole-resistant G. lamblia. Future studies could include lead optimization and correlating the analogs' potency and selectivity with their physicochemical properties. Pfizer Inc. markets Flagyl metronidazole to treat giardiasis, Clostridium difficile—associated diarrhea (CDAD) and other bacterial and parasitic infections.	Patent and licensing status unavailable	Valdez, C. et al. J. Med. Chem.; published online May 29, 2009; doi:10.1021/jm900356n Contact: Lars Eckmann, University of California, San Diego, La Jolla, Calif. e-mail: leckmann@ucsd.edu
		SciBX 2(24); doi:10.1038/scibx.2009.977 Published online June 18, 2009		