Gentamicin AtoB BtoA p_1.1. p_2.1. 1000 20 20 750 Blood 10 10 500 -0 250 -0 -10 Concentration (uM) -10 -20 -20 100 --30 Value Cell p_3.1. p_4.1. 50 -20 20 10 1200 10 0 800 Lumen -10 0 400 -20 -10 0 16 20 24 2500 5000 7500 10000 2500 5000 7500 10000 12 16 20 24 12 0 8 4 Time Iteration 10⁴ MAD = 0.2, Rho = 0.91.008 p_4 Predicted concentration 10³ -1.008 p_3 Parameter Addition.Type 10² AtoB 1.004 BtoA p_2 10¹ Compartment Blood 1.005 p_1 Lumen 10⁰ 10¹ 10² 10³ 10² 10⁴ 10⁶ 10⁸ 10¹⁰ 10⁰ 10⁴ 10⁰ Value (cm/hr) Experimental concentration