

Session: Nordquist CACO2_training_set_5

Created: Sun October 14 2012, 14:12

Continuous model session

Training set: Nordquist CACO2_training_set (77 compounds)

Validation set: Nordquist CACO2_test_set (23 compounds)

Modeled property: caco2

Summary of model results

Model	Trn	Val	Test	
	Rsqr	RMSE	Rsqr	RMSE
PLS Model	0.468	0.5446	0.6556	0.4995
RBF Model	1	2.258e-06	0.4487	0.6319
RBF Model (no GA)	1	2.258e-06	0.4487	0.6319
Random Forest	0.907	0.2277	0.6456	0.5067
Regression Model				
GPFixed	0.6389	0.4487	0.6335	0.5152
GP2DSearch	0.6155	0.463	0.6479	0.505
GPFVS	0.6019	0.4711	0.6554	0.4996
GPRFVS	0.6102	0.4662	0.6528	0.5015
GPOPT	0.879	0.2597	0.07416	0.8189
GPNEST	0.5522	0.4996	0.6446	0.5074

Parameters used:

Descriptor pre-selection:

- Threshold for minimum occurrence: 4%
- Threshold for minimum standard deviation: 0.0005
- Threshold for maximum correlation between descriptors: 0.95

Descriptors remaining after pre-selection: 10

logP, Vx, HBD-prof, OverallCharge, HBA-prof, Flex, AromaticRings, NegativeCharge, ERTLNotPSA, PositiveCharge

Compound IDs for split sets for session Nordquist CACO2_training_set_5

Training (77 compounds)

acebutolol, acebutolol_estер, acetylsalicylic_acid, acyclovir, alprenolol, alprenolol_estер, aminopyrine, artemisinin, artesunate, atenolol, betazolol, betazolol_estер, bremazocine, caffeine, chloramphenicol, chlorothiazide, chlorpromazine, cimetidine, clonidine, corticosterone, desipramine, dexamethasone, dexamethasone_b_D_glucoside, dexamethasone_b_D_glucuronide, diazepam, dopamine, doxorubicin, erythromycin, estradiol, felodipine, ganciclovir, griseofulvin, hydrochlorothiazide, hydrocortisone, ibuprophen, imipramine, indomethacin, labetalol, mannitol, meloxicam, methanol, methotrexate, methylscopolamine, metoprolol, nadolol, naproxen, nevirapine, nicotine, olsalazine, oxprenolol, oxprenolol_estер, phencyclidine, phenytoin, pindolol, pirenzepine, piroxicam, pnu200603, practolol, prazocin, progesterone, propranolol, propranolol_este, quinidine, ranitidine, salicylic_acid, scopolamine, sucrose, sulphasalazine, telmisartan, terbutaline, tesosterone, timolol, timolol_estер, uracil, urea, warfarin, zidovudine

Validation (23 compounds)

furosemide, guanabenz, fleroxacin, mibefradil, verapamil, guanozan, saquinavir, lidocaine, enalapril, theophylline, cyclosporine, antipyrene, proscillarin, coumarin, nitrendipine, epinephrine, tiacrilast, amoxicillin, diltiazem, remikiren, sulpiride, bosentan, ceftriaxone