SI Dataset 1

Genotype and phenotype data used in the paper are available in R/qtl csv format (Broman KW, Wu H, Sen S, Churchil GA (2003) *Bioinformatics* 19:889-890.).

1. Genotype and phenotype data for the MY cross

"Atenolol," "IsoproterenolHCl," "LiCl," "AntozolinHCl," "Molsidomine," "Cisplatin," "4-Methylpyrazole hydrochloride," "Nialamide," "Idazoxan hydrochloride," "FluphenazinediHCl," "N-Ethylmaleimide," "DipropyldopamineHBr," "Menadione," "H2O2," "Hydrocortisone 21-hemisuccinate sodium," "1-[2-(Trifluoromethyl)phenyl]imidazole," "9-Amino-1,2,3,4-tetrahydroacridine hydrochloride," "Propafenone hydrochloride," "Minoxidil," "Acetylthiocholine chloride," "Cefmetazole sodium," "Phenylephrine hydrochloride," "Alprenolol hydrochloride," "Tiapride hydrochloride," "Benserazide hydrochloride," "Ethosuximide," "Aminoguanidine hemisulfate," "2,3-Butanedione monoxime," "1-(m-Chlorophenyl)-biguanide HCl," "Cyproheptadine," "Palmitoyl-DL-Carnitine chloride," "M1_1," "M1_2," "M1_3," "M1_4," "M2_1," "M2_2," "M2_3," "M2_4," "M2_5," "M2_6," "M2_7," "M2_8," "M2_9," "M2_10," "M2_11," "M2_12," "M2_13," "M3_1," "M3_2," "M3_3," "M3_4," "M3_5," "M4_1," "M4_2," "M4_3," "M4_4," "M4_5," "M4_6," "M4_7," "M4_8," "M4_9," "M4_10," "M4_11," "M4_12," "M4_13," "M4_14," "M4_15," "M4_16," "M4_17," "M4_18," "M4_19," "M4_20," "M4_21," "M4_22," "M4_23," "M4_24," "M4_25," "M5_1," "M5_2," "M5_3," "M5_4," "M5_5," "M5_6," "M5_7," "M5_8," "M5_9," "M5_10," "M6_1," "M6_2," "M6_3," "M6_4," "M7_1," "M7_2," "M7_3," "M7_4," "M7_5," "M7_6," "M7_7," "M7_8," "M7_9," "M7_10," "M7_11," "M7_12," "M7_13," "M7_14," "M7_15," "M7_16," "M7_17," "M7_18," "M8_1," "M8_2," "M8_3," "M8_4," "M8_5," "M8_6," "M8_7," "M8_8," "M8_9," "M9_1," "M9_2," "M9_3," "M9_4," "M9_5," "M9_6," "M9_7," "M10_1," "M10_2," "M10_3," "M10_4," "M10_5," "M10_6," "M10_7," "M10_8," "M10_9," "M10_10," "M10_11," "M10_12," "M11_1," "M11_2," "M11_3," "M11_4," "M11_5," "M11_6," "M11_7," "M11_8," "M11_9," "M11_10," "M11_11," "M12_1," "M12_2," "M12_3," "M12_4," "M12_5," "M12_6," "M12_7," "M12_8," "M12_9," "M12_10," "M12_11," "M12_12," "M12_13," "M12_14," "M12_15," "M12_16," "M12_17," "M12_18," "M13_1," "M13_2," "M13_3," "M13_4," "M13_5," "M13_6," "M13_7," "M13_8," "M13_9," "M13_10," "M13_11," "M13_12," "M13_13," "M13_14," "M13_15," "M14_1," "M14_2," "M14_3," "M14_4," "M14_5," "M14_6," "M14_7," "M14_8," "M14_9," "M14_10," "M14_11," "M14_12," "M14_13," "M15_1," "M15_2," "M15_3," "M15_4," "M15_5," "M15_6," "M15_7," "M15_8," "M15_9," "M15_10," "M15_11," "M15_12," "M15_13," "M15_14," "M15_15," "M15_16," "M15_17," "M15_18," "M16_1," "M16_2," "M16_3," "M16_4," "M16_5," "M16_6," "M16_7," "M16_8," "M16_9," "M16_10," "M16_11," "M16_12," "M16_13," "M16_14," "M16_15," "M16_16"

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2. Genotype and phenotype data for the MS cross

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" 4-Methylpyrazole hydrochloride," " Nialamide," " Idazoxan hydrochloride,"
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" H2O2," " Hydrocortisone 21-hemisuccinate sodium," " 1-[2-
(Trifluoromethyl)phenyl]imidazole," " 9-Amino-1,2,3,4-tetrahydroacridine hydrochloride,"
" Propafenone hydrochloride," " Minoxidil," " Acetylthiocholine chloride," " Cefmetazole
sodium," " Phenylephrine hydrochloride," " Alprenolol hydrochloride," " Tiapride
hydrochloride," " Benserazide hydrochloride," " Ethosuximide," " Aminoguanidine
hemisulfate," " 2,3-Butanedione monoxime," " 1-(m-Chlorophenyl)-biguanide HCl,"
" Cyproheptadine," " Palmitoyl-DL-Carnitine chloride," " M1_1," " M1_2," " M1_3,"
" M1_4," " M2_1," " M2_2," " M2_3," " M2_4," " M2_5," " M2_6," " M2_7,"
" M2_8," " M2_9," " M2_10," " M2_11," " M2_12," " M2_13," " M3_1," " M3_2,"
" M3_3," " M3_4," " M3_5," " M4_1," " M4_2," " M4_3," " M4_4," " M4_5,"

"M4_6," "M4_7," "M4_8," "M4_9," "M4_10," "M4_11," "M4_12," "M4_13," "M4_14," "M4_15," "M4_16," "M4_17," "M4_18," "M4_19," "M4_20," "M4_21," "M4_22," "M4_23," "M4_24," "M4_25," "M5_1," "M5_2," "M5_3," "M5_4," "M5_5," "M5_6," "M5_7," "M5_8," "M5_9," "M5_10," "M6_1," "M6_2," "M6_3," "M6_4," "M7_1," "M7_2," "M7_3," "M7_4," "M7_5," "M7_6," "M7_7," "M7_8," "M7_9," "M7_10," "M7_11," "M7_12," "M7_13," "M7_14," "M7_15," "M7_16," "M7_17," "M7_18," "M8_1," "M8_2," "M8_3," "M8_4," "M8_5," "M8_6," "M8_7," "M8_8," "M8_9," "M9_1," "M9_2," "M9_3," "M9_4," "M9_5," "M9_6," "M9_7," "M10_1," "M10_2," "M10_3," "M10_4," "M10_5," "M10_6," "M10_7," "M10_8," "M10_9," "M10_10," "M10_11," "M10_12," "M11_1," "M11_2," "M11_3," "M11_4," "M11_5," "M11_6," "M11_7," "M11_8," "M11_9," "M11_10," "M11_11," "M12_1," "M12_2," "M12_3," "M12_4," "M12_5," "M12_6," "M12_7," "M12_8," "M12_9," "M12_10," "M12_11," "M12_12," "M12_13," "M12_14," "M12_15," "M12_16," "M12_17," "M12_18," "M13_1," "M13_2," "M13_3," "M13_4," "M13_5," "M13_6," "M13_7," "M13_8," "M13_9," "M13_10," "M13_11," "M13_12," "M13_13," "M13_14," "M13_15," "M14_1," "M14_2," "M14_3," "M14_4," "M14_5," "M14_6," "M14_7," "M14_8," "M14_9," "M14_10," "M14_11," "M14_12," "M14_13," "M15_1," "M15_2," "M15_3," "M15_4," "M15_5," "M15_6," "M15_7," "M15_8," "M15_9," "M15_10," "M15_11," "M15_12," "M15_13," "M15_14," "M15_15," "M15_16," "M15_17," "M15_18," "M16_1," "M16_2," "M16_3," "M16_4," "M16_5," "M16_6," "M16_7," "M16_8," "M16_9," "M16_10," "M16_11," "M16_12," "M16_13," "M16_14," "M16_15," "M16_16"

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89.2,109.2,129.2,149.2,168.6,190.2,210.2,228.6,249.6,271.6,289.6,312.9,329.3,347.3,9.3,25,4
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899786,6.893725915,12.404647,4.33381734,5.734087,8.305218,6.554507,4.955620453,5.556
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6499815,5.795267468,0.720097004,1.032390452,7.714871267,6.111240926,5.947327489,4.5
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3. Genotype and phenotype data for the YS cross

"Atenolol," " IsoproterenolHCl," " LiCl," " AntozolinHCl," " Molsidomine," " Cisplatin,"
" 4-Methylpyrazole hydrochloride," " Nialamide," " Idazoxan hydrochloride,"
" FluphenazinediHCl," " N-Ethylmaleimide," " DipropyldopamineHBr," " Menadione,"
" H2O2," " Hydrocortisone 21-hemisuccinate sodium," " 1-[2-
(Trifluoromethyl)phenyl]imidazole," " 9-Amino-1,2,3,4-tetrahydroacridine hydrochloride,"
" Propafenone hydrochloride," " Minoxidil," " Acetylthiocholine chloride," " Cefmetazole
sodium," " Phenylephrine hydrochloride," " Alprenolol hydrochloride," " Tiapride
hydrochloride," " Benserazide hydrochloride," " Ethosuximide," " Aminoguanidine
hemisulfate," " 2,3-Butanedione monoxime," " 1-(m-Chlorophenyl)-biguanide HCl,"
" Cyproheptadine," " Palmitoyl-DL-Carnitine chloride," " M1_1," " M1_2," " M1_3,"
" M1_4," " M2_1," " M2_2," " M2_3," " M2_4," " M2_5," " M2_6," " M2_7,"
" M2_8," " M2_9," " M2_10," " M2_11," " M2_12," " M2_13," " M3_1," " M3_2,"
" M3_3," " M3_4," " M3_5," " M4_1," " M4_2," " M4_3," " M4_4," " M4_5,"
" M4_6," " M4_7," " M4_8," " M4_9," " M4_10," " M4_11," " M4_12," " M4_13,"
" M4_14," " M4_15," " M4_16," " M4_17," " M4_18," " M4_19," " M4_20,"
" M4_21," " M4_22," " M4_23," " M4_24," " M4_25," " M5_1," " M5_2," " M5_3,"
" M5_4," " M5_5," " M5_6," " M5_7," " M5_8," " M5_9," " M5_10," " M6_1,"
" M6_2," " M6_3," " M6_4," " M7_1," " M7_2," " M7_3," " M7_4," " M7_5,"
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" M14_11," " M14_12," " M14_13," " M15_1," " M15_2," " M15_3," " M15_4,"
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96.3,215.4,233.8,15.9,43.9,74.8,105.2,137,9.3,27.7,46.7,66.6,83.8,104.3,124.9,141.7,166,180.
9,198.7,217.7,236.7,255.7,274,296.1,314.5,331.6,351.3,368.7,390.5,407.9,425.4,446.2,464.6,1
0.6,29.4,49.3,69.8,90,108.8,130.7,148.5,169,190.9,19.3,47.4,79.8,111.8,9.9,34.6,54.8,78.3,100
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,64.9,83.9,101.8,121.2,140.5,156,13.9,40.8,69.1,98.7,126.1,152.2,182.7,10.4,27.2,45,65.1,83.1
,103.3,120.4,139.1,159.2,176.3,195.9,213.6,10.6,34.7,57,79.6,101.5,119.6,147.2,169.8,194.7,2
18.1,240.8,12,31.4,50.8,74.2,97.6,118.1,138.9,157.9,182.4,204,225.5,247.4,268.3,290.2,311.8,
333.3,355.6,376.1,9.6,30.6,46.8,72.8,93.4,114.7,136,156.3,180,198.2,219.2,241.8,260,282,303
,10.6,32.6,54.9,77.2,100.6,121.9,143.4,168,188.8,211.1,237.2,255.8,275.5,12.1,28.2,49.2,67.5,
89.2,109.2,129.2,149.2,168.6,190.2,210.2,228.6,249.6,271.6,289.6,312.9,329.3,347.3,9.3,25,4
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