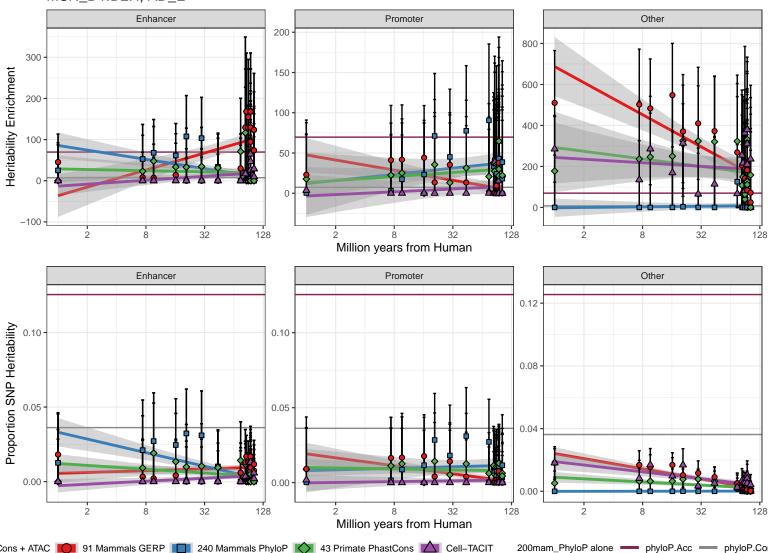
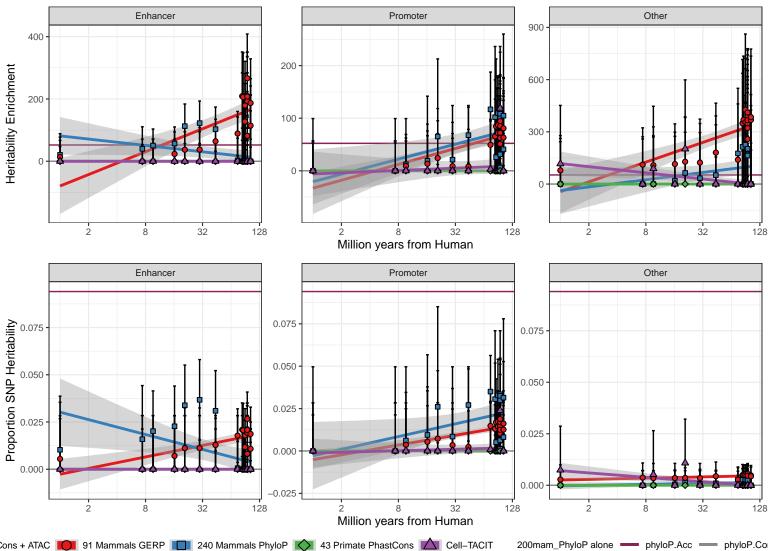
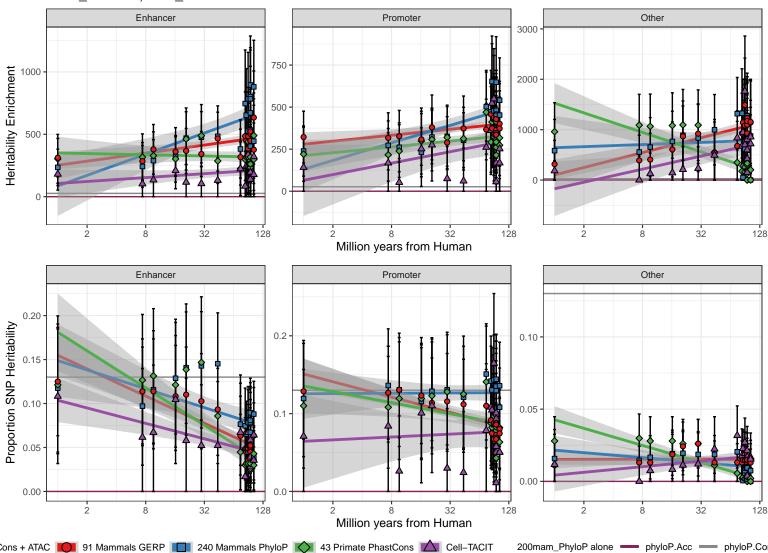
MSN\_D1.D2H, AD\_E



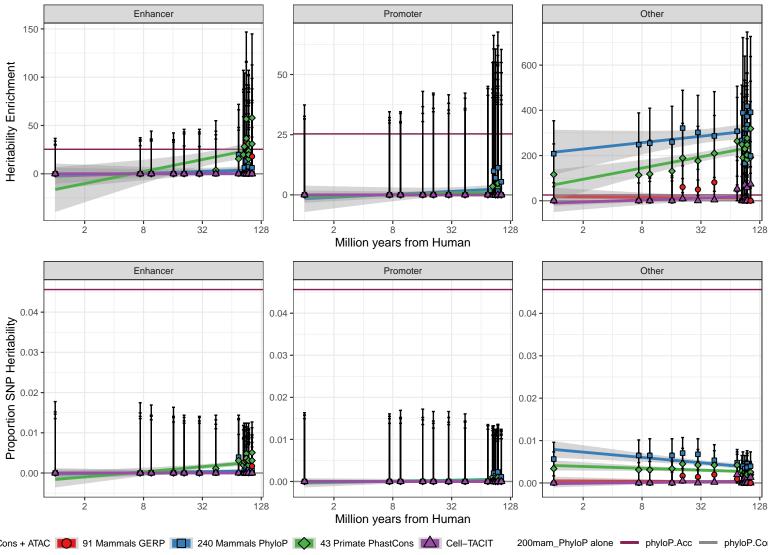
## MSN\_D1.D2H, AD-ADBP\_E



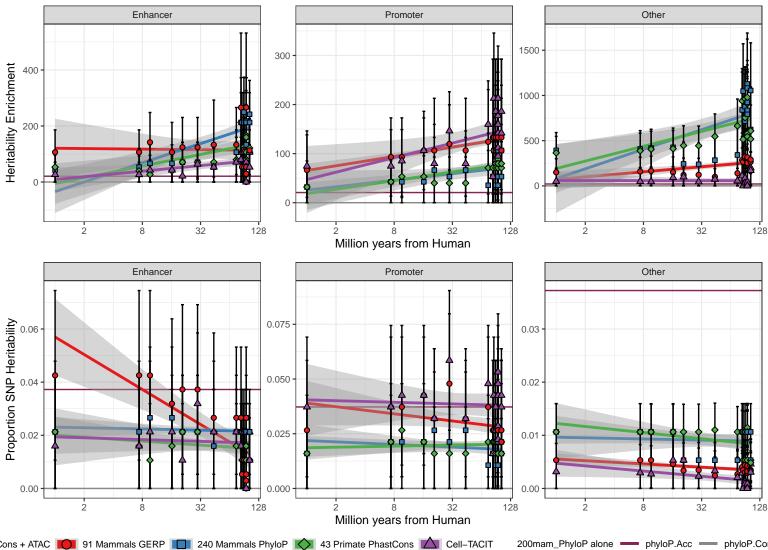
MSN\_D1.D2H, ALS\_E



# MSN\_D1.D2H, AMD\_E



MSN\_D1.D2H, PD-PDBP\_E



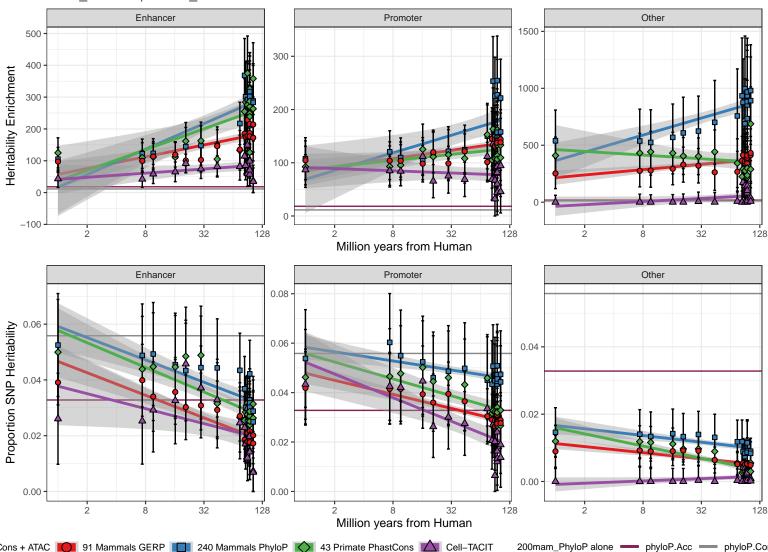
MSN\_D1.D2H, Cross-Psych\_E Enhancer Promoter Other 800 400 Heritability Enrichment 600 300 200 400 -200 100 100 200 32 128 128 32 8 128 2 8 Million years from Human Other Enhancer Promoter 0.03 0.08 0.08 Proportion SNP Heritability
0.00
0.00 0.06 0.02 -0.04 0.01 0.02 0.00 0.00 32 32 128 32 128 8 128 Million years from Human

200mam\_PhyloP alone phyloP.Acc phyloP.Co

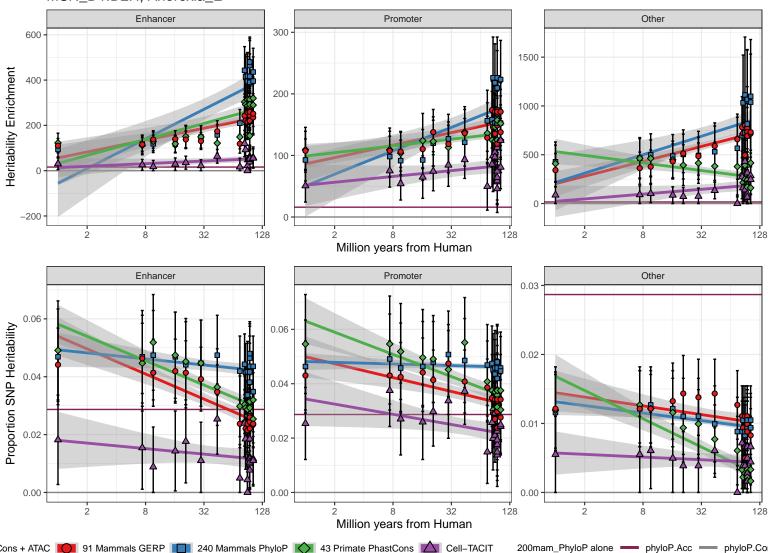
🚺 91 Mammals GERP 📘 240 Mammals PhyloP 🔷 43 Primate PhastCons 🛕 Cell-TACIT

Cons + ATAC

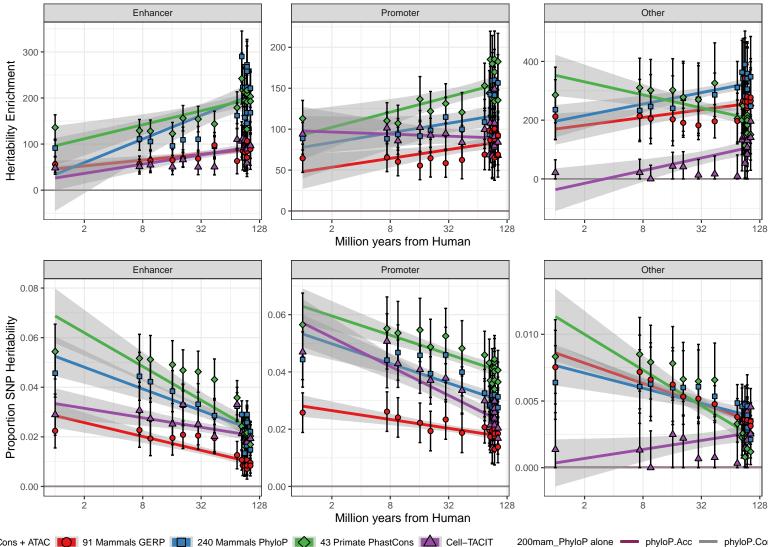
## MSN\_D1.D2H, ADHD\_E



MSN\_D1.D2H, Anorexia\_E



MSN\_D1.D2H, Bipolar\_E

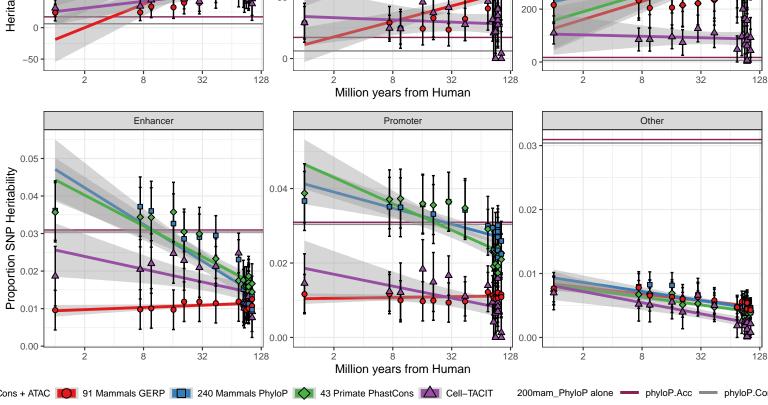


Heritability Enrichment 400 -50 · -50 Million years from Human

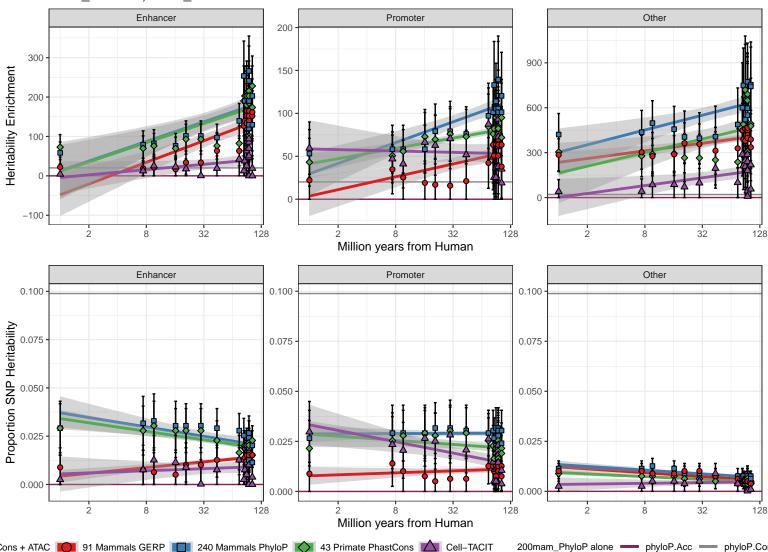
Promoter

Other

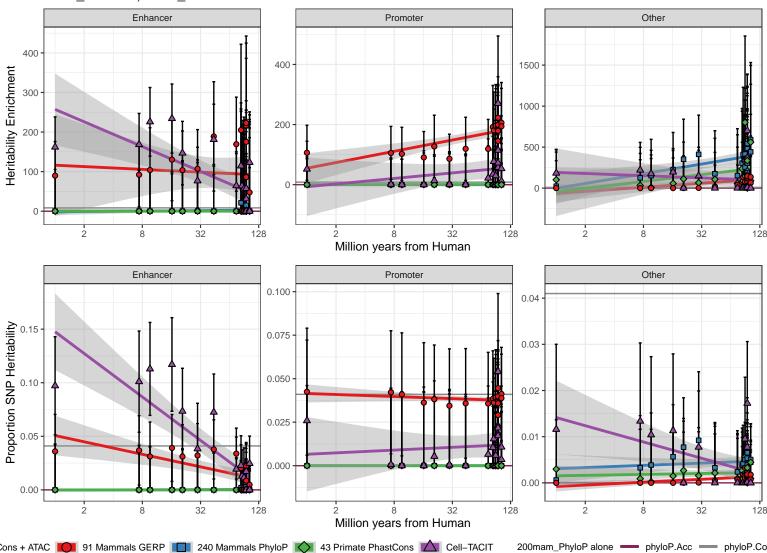
MSN\_D1.D2H, Depression\_E Enhancer



MSN\_D1.D2H, MDD\_E

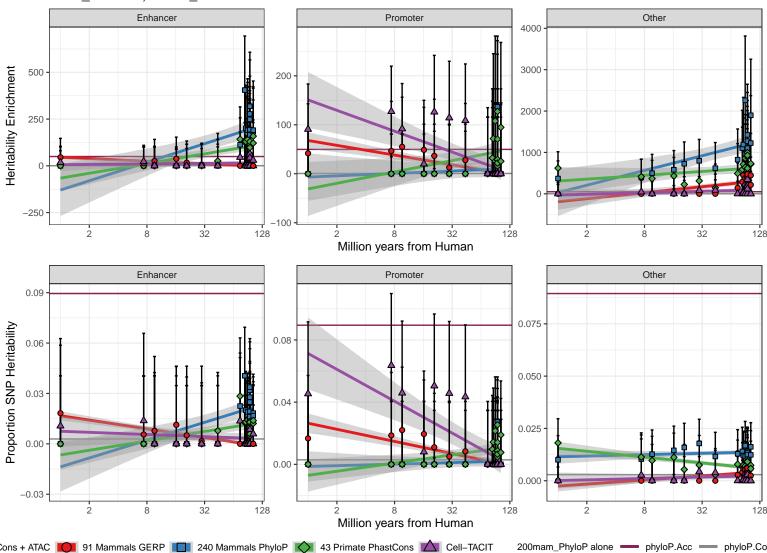


## MSN\_D1.D2H, OCD\_E



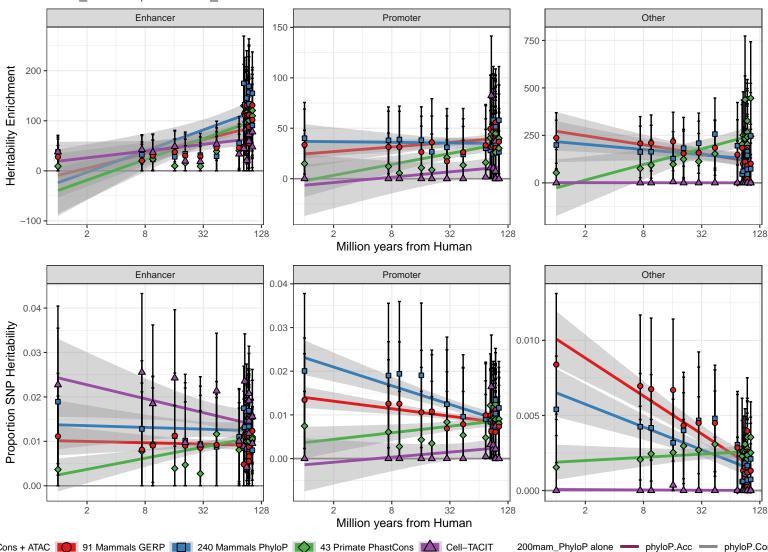
MSN\_D1.D2H, PTSD\_A Enhancer Promoter Other 900 1000 2000 Heritability Enrichment 750 1000 500 250 0 32 32 32 128 128 128 8 8 Million years from Human Enhancer Promoter Other 0.3 -0.4 0.20 Proportion SNP Heritability 0.3 -0.15 0.2 0.10 0.05 0.1 -0.0 0.00 0.0 32 128 32 128 32 128 8 8 Million years from Human Cons + ATAC 🚺 91 Mammals GERP 📘 240 Mammals PhyloP 🔷 43 Primate PhastCons 🛕 Cell-TACIT 200mam\_PhyloP alone phyloP.Acc phyloP.Co

MSN\_D1.D2H, PTSD\_E



MSN\_D1.D2H, Schizophrenia\_E Enhancer Promoter Other 300 400 Heritability Enrichment 200 300 200 200 100 100 32 32 32 128 8 128 128 Million years from Human Enhancer Promoter Other 0.08 0.006 Proportion SNP Heritability
0.00
0.002 0.075 0.004 0.050 0.002 0.025 0.000 0.00 0.000 32 32 128 32 128 2 128 8 Million years from Human Cons + ATAC 91 Mammals GERP 🔲 240 Mammals PhyloP 🔷 43 Primate PhastCons 🔼 Cell-TACIT 200mam\_PhyloP alone phyloP.Acc phyloP.Co

# MSN\_D1.D2H, AUDIT-C\_E



200 Heritability Enrichment 400 -150 100 200 50 ·

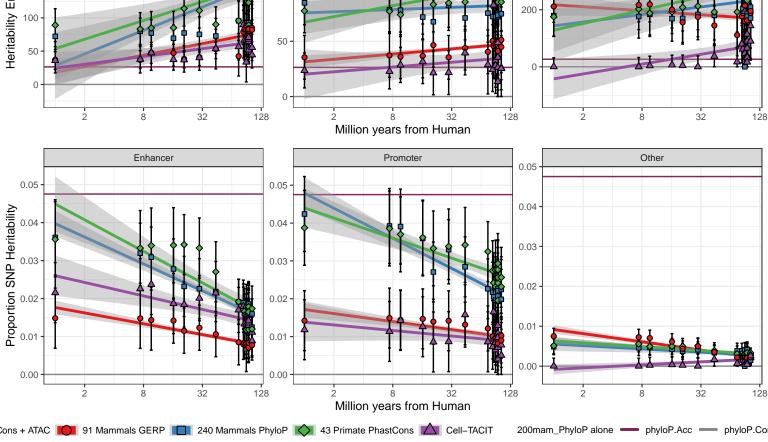
150

Promoter

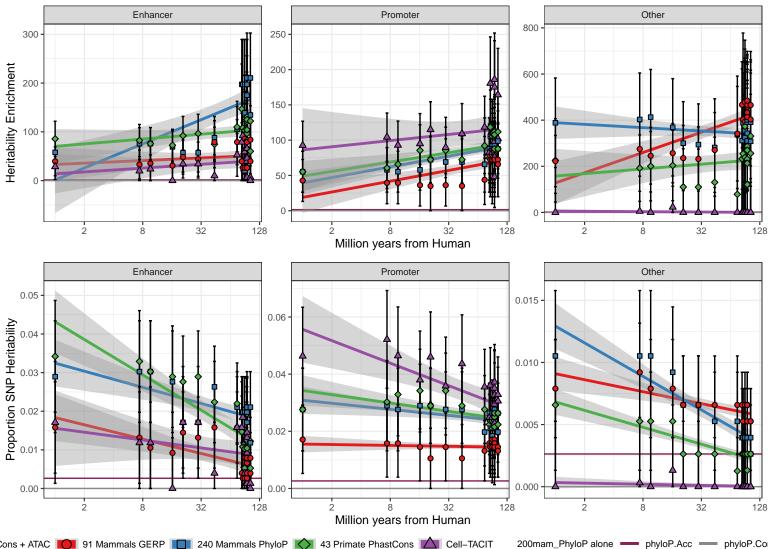
Other

MSN\_D1.D2H, DrinksPerWeek\_E Enhancer

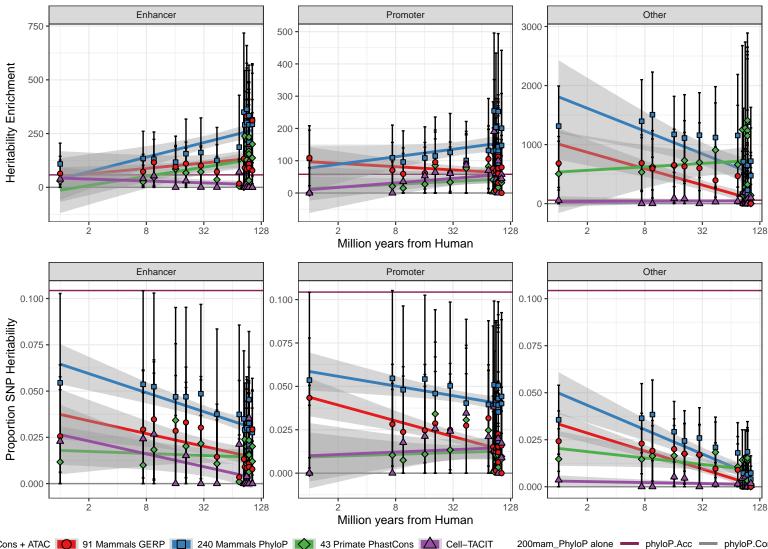
250



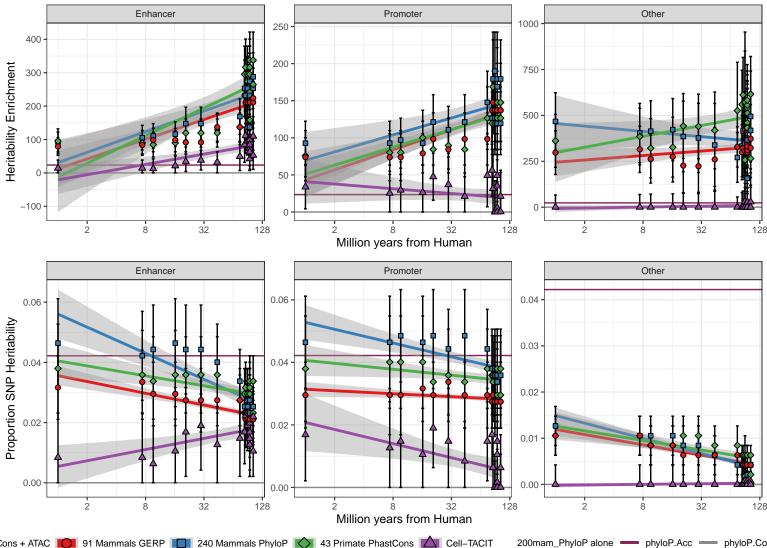
MSN\_D1.D2H, CannabisUse\_E



MSN\_D1.D2H, CoffeePerDay\_E



MSN\_D1.D2H, SmokAgeOfInit\_E



Heritability Enrichment 200 -200 600 100 100 300 32 32 128 32 2 8 8 128 2 8 128 Million years from Human Enhancer Promoter Other 0.03 0.075

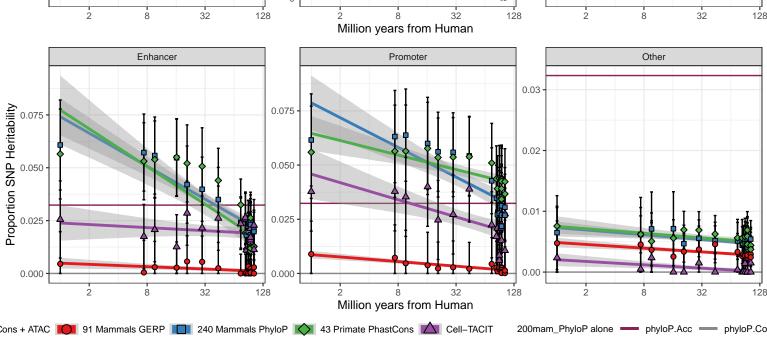
Promoter

Other

900

MSN\_D1.D2H, SmokCessation\_E Enhancer

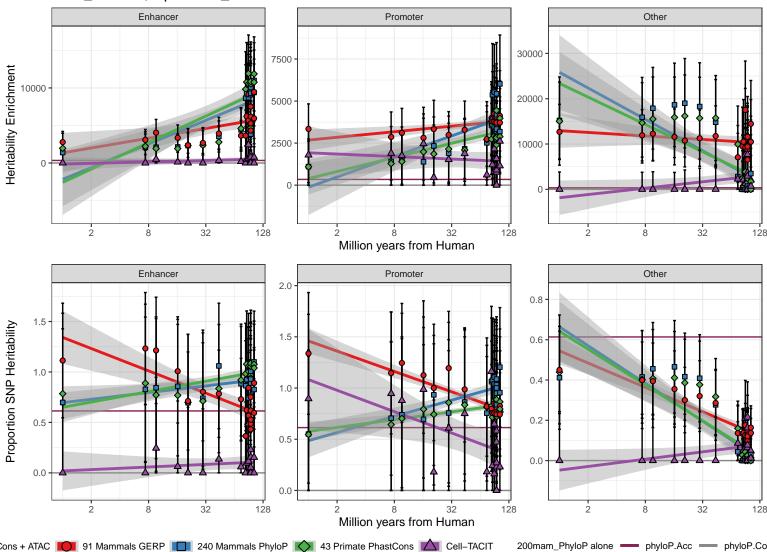
300



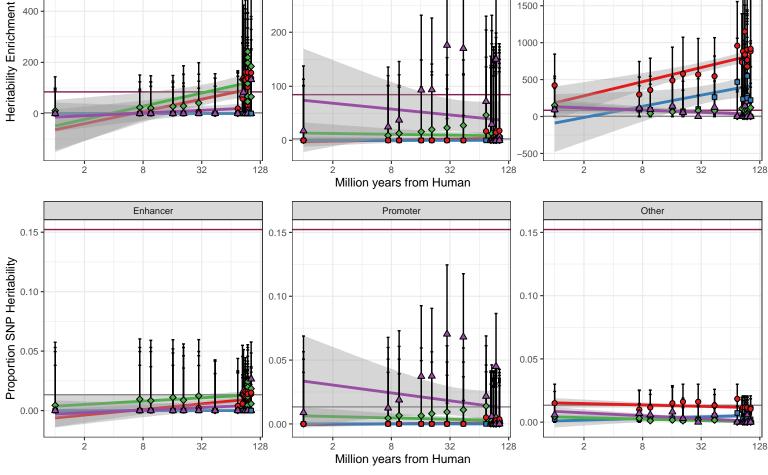
MSN\_D1.D2H, SmokCigPerDay\_E Enhancer Promoter Other 1000 Heritability Enrichment 200 200 -750 500 -100 100 250 32 32 128 32 128 8 128 2 Million years from Human Enhancer Promoter Other 0.06 0.08 0.05 Proportion SNP Heritability 0.04 -0.06 -0.03 0.04 0.02 0.02 0.01 0.00 0.00 32 128 32 128 32 2 8 8 8 128 Million years from Human cons + ATAC 🚺 91 Mammals GERP 📘 240 Mammals PhyloP ᠺ 43 Primate PhastCons 🛕 Cell–TACIT 200mam\_PhyloP alone phyloP.Acc phyloP.Co

MSN\_D1.D2H, SmokInitiation\_E Enhancer Promoter Other 300 750 -Heritability Enrichment 150 200 500 -100 100 250 50 -32 128 32 128 32 8 128 2 8 Million years from Human Other Enhancer Promoter 0.06 0.03 -Proportion SNP Heritability 0.04 0.02 0.02 0.01 0.00 0.00 -0.00 32 128 32 128 32 2 8 2 8 128 Million years from Human Cons + ATAC 🚺 91 Mammals GERP 📘 240 Mammals PhyloP 🔷 43 Primate PhastCons 🛕 Cell-TACIT 200mam\_PhyloP alone phyloP.Acc phyloP.Co

MSN\_D1.D2H, OpioidUse\_E



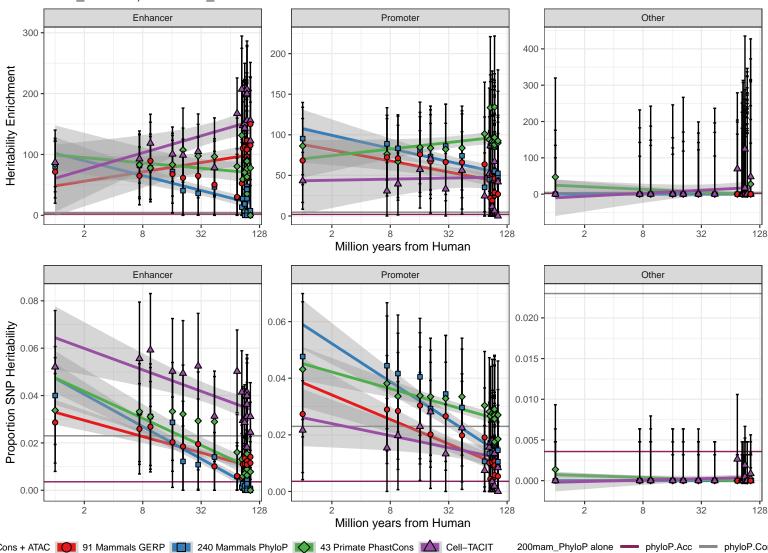
MSN\_D1.D2H, AlcoholDep\_E



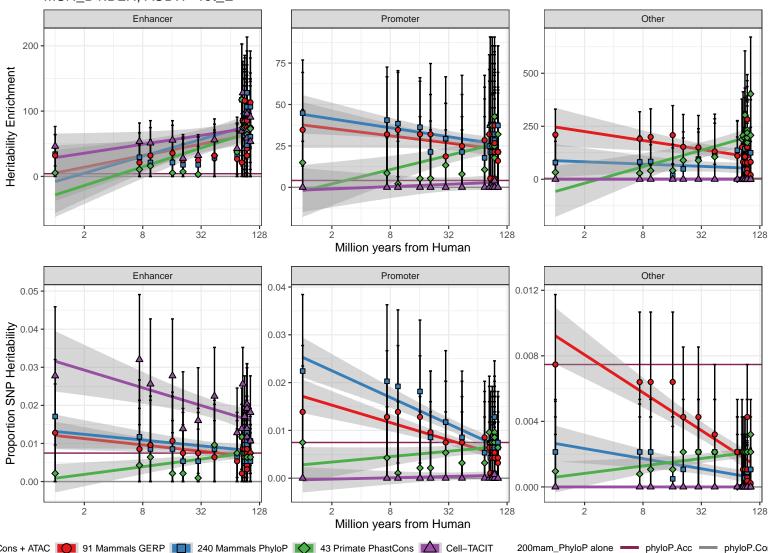
200mam\_PhyloP alone phyloP.Acc phyloP.Co

Cons + ATAC 🚺 91 Mammals GERP 📘 240 Mammals PhyloP 🔷 43 Primate PhastCons 🛕 Cell-TACIT

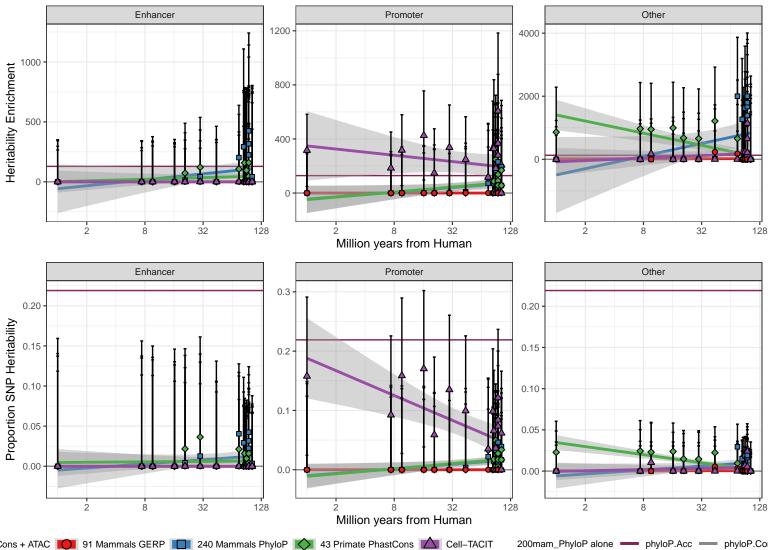
### MSN\_D1.D2H, AUDIT-P\_E



## MSN\_D1.D2H, AUDIT-Tot\_E

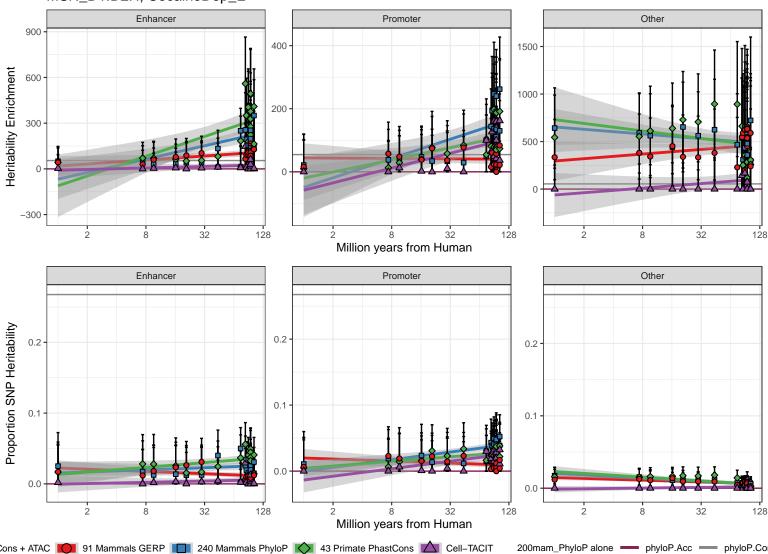


MSN\_D1.D2H, CannabisUD\_A



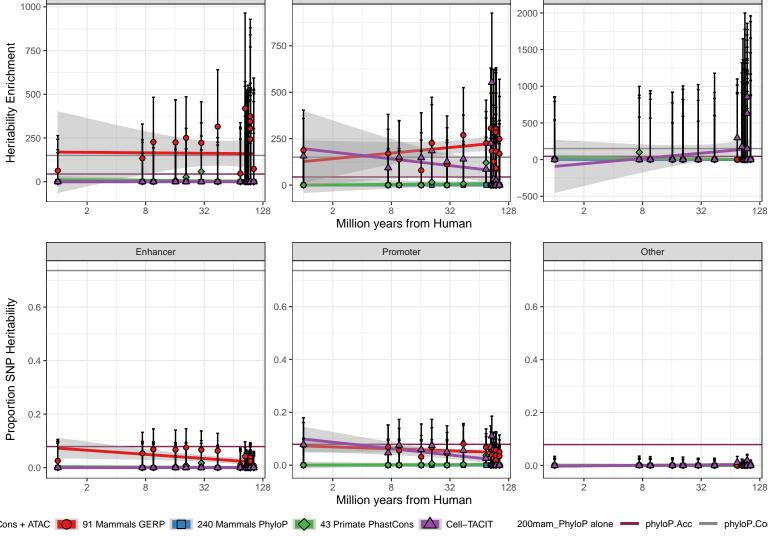
MSN\_D1.D2H, CannabisUD\_E Enhancer Promoter Other 300 1000 150 Heritability Enrichment 200 500 100 50 -500 32 32 32 8 128 8 128 2 128 Million years from Human Enhancer Promoter Other 0.08 0.015 -Proportion SNP Heritability 0.06 0.010 0.04 0.005 0.02 0.000 0.00 0.00 -0.005 32 32 32 8 128 8 128 2 2 8 128 Million years from Human cons + ATAC 🚺 91 Mammals GERP 🔲 240 Mammals PhyloP 🔷 43 Primate PhastCons 🛕 Cell-TACIT 200mam\_PhyloP alone phyloP.Acc phyloP.Co

MSN\_D1.D2H, CocaineDep\_E



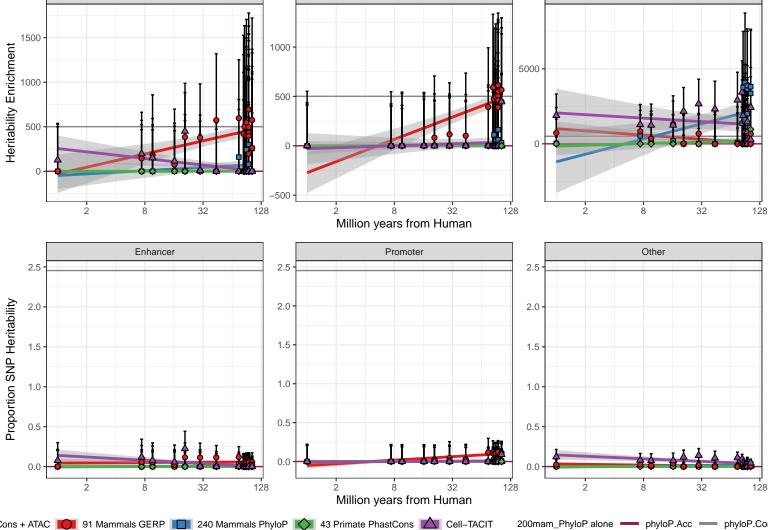
MSN\_D1.D2H, OpioidDep\_E

Enhancer Promoter Other



MSN\_D1.D2H, OpioidDep-vs-Exp\_A

Enhancer Promoter Other



Heritability Enrichment 400 100 -00 200 32 32 128 32 128 128 Million years from Human Enhancer Promoter Other

Promoter

150

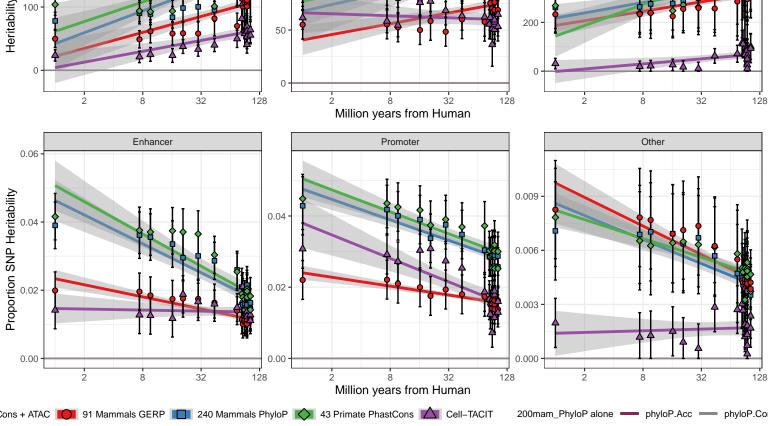
Other

600

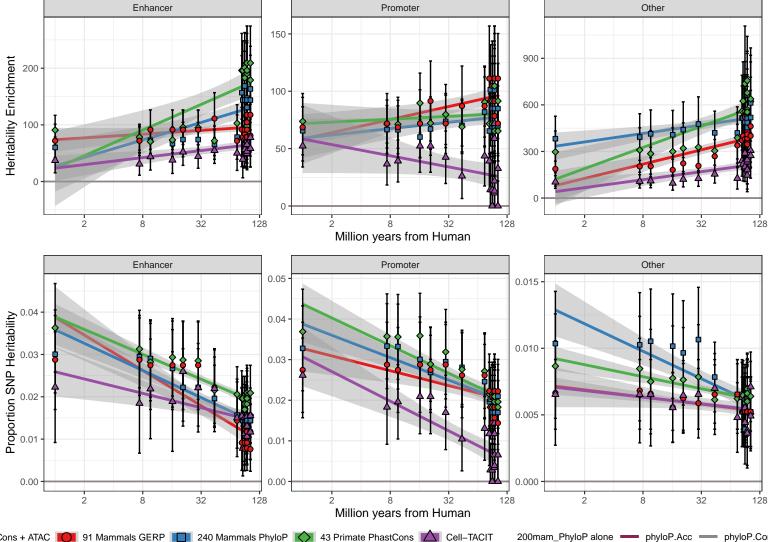
MSN\_D1.D2H, EduAttain\_E

200

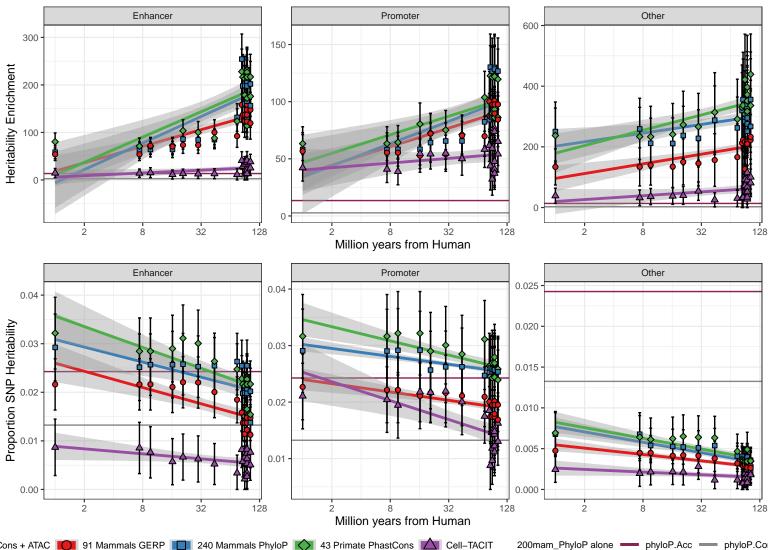
Enhancer



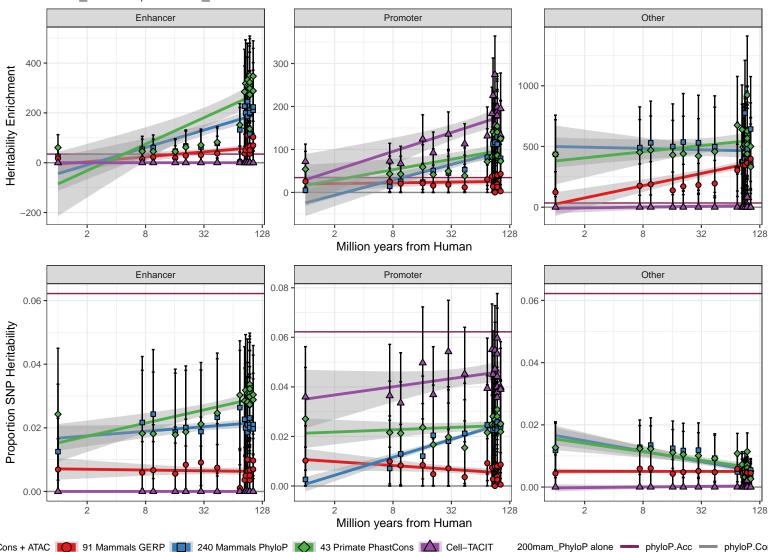
MSN\_D1.D2H, Income\_E



## MSN\_D1.D2H, BMI\_E



MSN\_D1.D2H, BrainVol\_E



MSN\_D1.D2H, Neuroticsim\_E Enhancer Promoter Other 600 150 Heritability Enrichment 200 400 -100 -100 200 50 -32 128 32 32 128 128 8 8 Million years from Human Other Enhancer Promoter 0.06 Proportion SNP Heritability 0.03 -0.04 0.02 -0.02 0.01 0.00 0.00 32 32 128 128 32 8 2 8 128 Million years from Human cons + ATAC 🚺 91 Mammals GERP 🔲 240 Mammals PhyloP 🔷 43 Primate PhastCons 🛕 Cell-TACIT 200mam\_PhyloP alone phyloP.Acc phyloP.Co

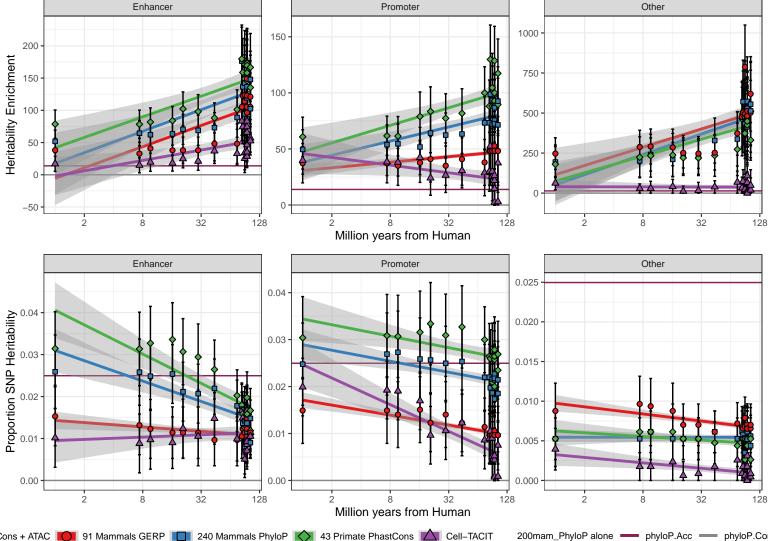
MSN\_D1.D2H, Intelligence\_E Enhancer Promoter Other 300 Heritability Enrichment 150 500 200 100 250 100 50 32 128 32 128 32 128 2 8 8 Million years from Human Enhancer Promoter Other 0.05 Proportion SNP Heritability 0.010 0.04 0.005 0.02 0.000 0.00 32 32 128 32 128 128 8 Million years from Human

200mam\_PhyloP alone phyloP.Acc phyloP.Co

91 Mammals GERP 🔲 240 Mammals PhyloP 🔷 43 Primate PhastCons 🔼 Cell-TACIT

Cons + ATAC

MSN\_D1.D2H, RiskyBehavior\_E

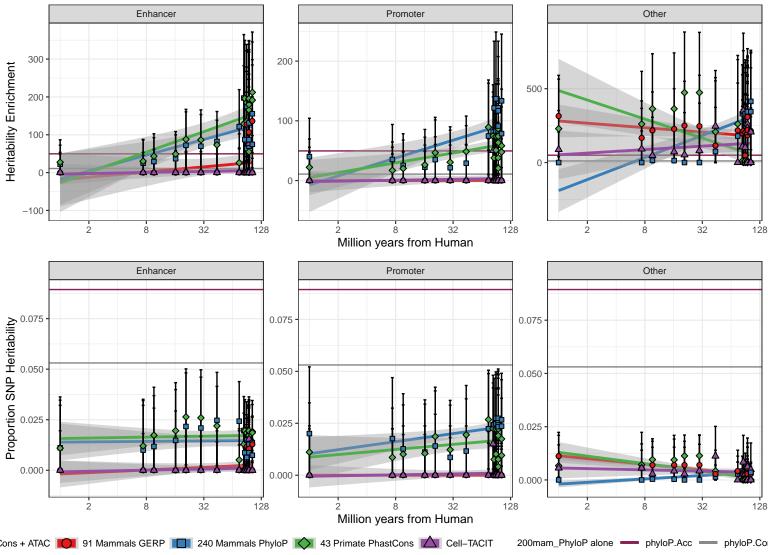


MSN\_D1.D2H, Worry\_E Enhancer Promoter Other 750 150 Heritability Enrichment 200 500 100 -250 50 -32 32 128 32 128 128 8 8 Million years from Human Enhancer Promoter Other 0.06 0.03 -Proportion SNP Heritability 0.04 -0.02 0.02 -0.02 0.01 0.00 32 128 32 128 32 128 8 8 Million years from Human

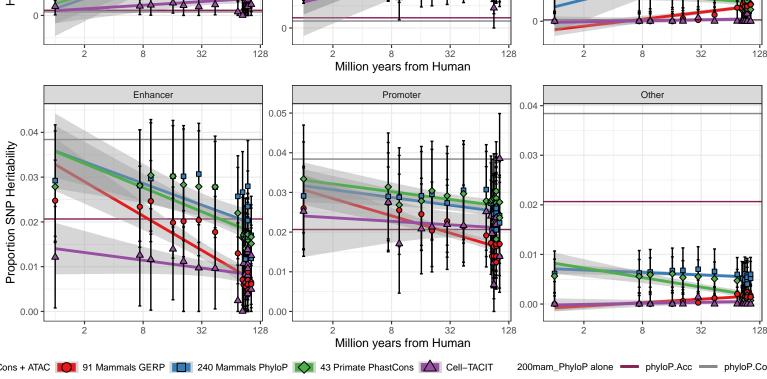
200mam\_PhyloP alone phyloP.Acc phyloP.Co

Cons + ATAC 🚺 91 Mammals GERP 📘 240 Mammals PhyloP 🔷 43 Primate PhastCons 🛕 Cell-TACIT

MSN\_D1.D2H, ChronicPain\_E



MSN\_D1.D2H, Headache\_E Enhancer Promoter Other 200 300 Heritability Enrichment 1000 150 200 100 500 -100 50 0 32 128 32 128 32 128 2 8 8 Million years from Human Enhancer Other Promoter 0.04 0.05 0.04 0.04 0.03 0.03 0.02 0.02 0.01



Heritability Enrichment 150 400 -100 100 200 50 50 32 128 32 128 32 128 2 8 Million years from Human Other Enhancer Promoter 0.012 0.04 -0.04

Promoter

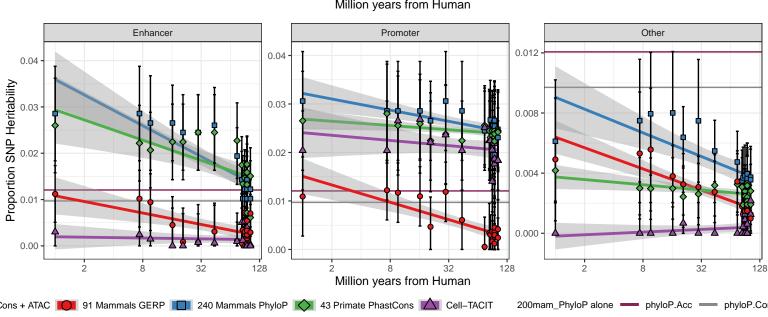
150

Other

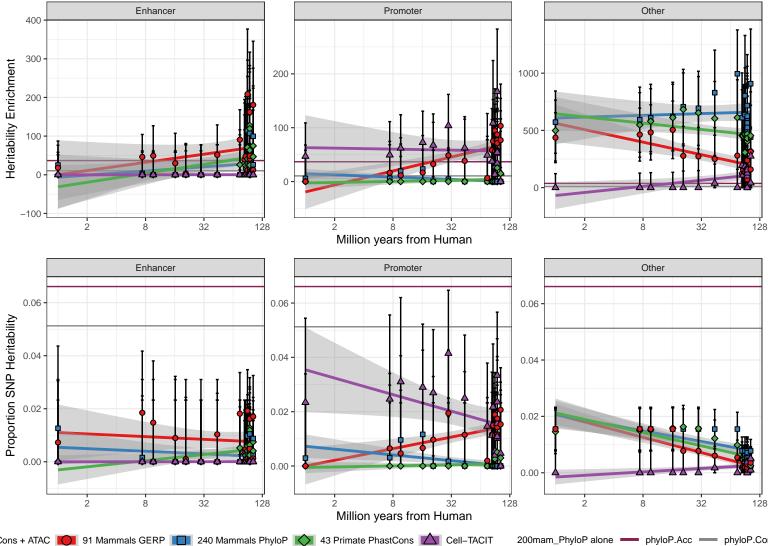
600 -

MSN\_D1.D2H, DaySleepiness\_E

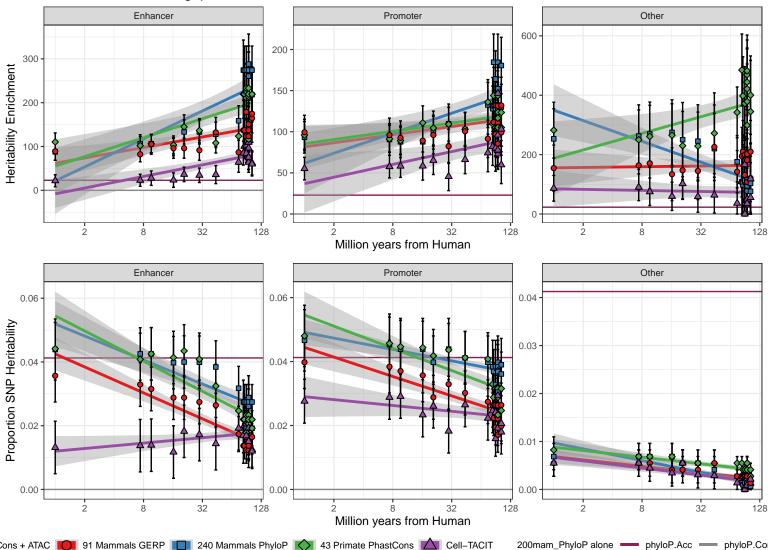
200



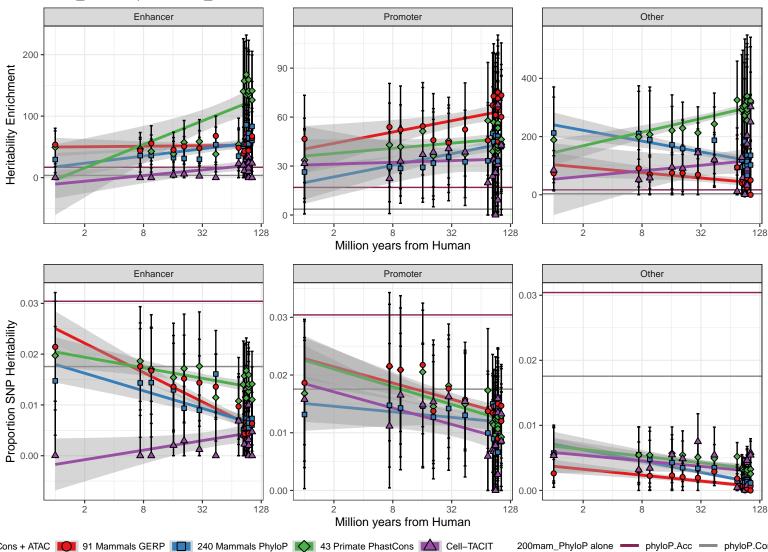
MSN\_D1.D2H, Dozing\_E



MSN\_D1.D2H, Gettingup\_E

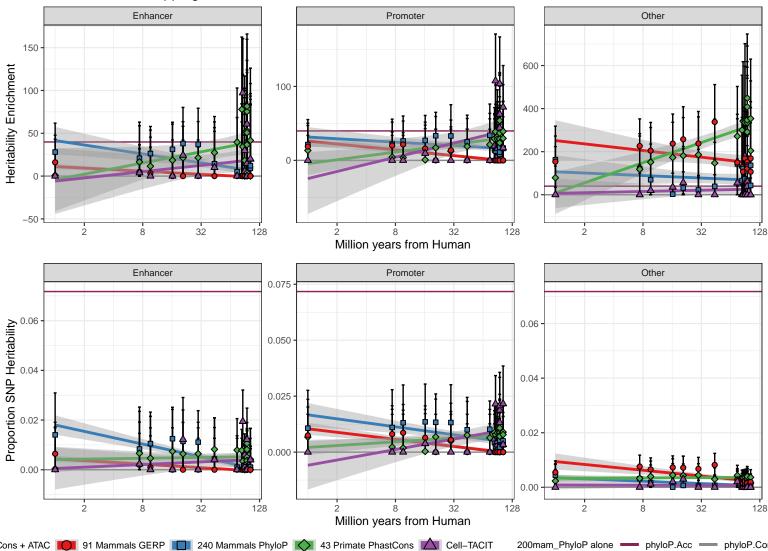


MSN\_D1.D2H, Insomnia\_E



MSN\_D1.D2H, Morningness\_E Enhancer Promoter Other 500 150 400 Heritability Enrichment 200 300 100 200 -100 50 -100 -0 32 128 32 32 128 128 8 Million years from Human Other Enhancer Promoter 0.03 0.06 0.06 Proportion SNP Heritability 0.02 -0.04 0.01 0.02 0.00 0.00 32 128 32 128 8 32 128 Million years from Human cons + ATAC 🚺 91 Mammals GERP 📘 240 Mammals PhyloP ᠺ 43 Primate PhastCons 🛕 Cell–TACIT 200mam\_PhyloP alone phyloP.Acc phyloP.Co

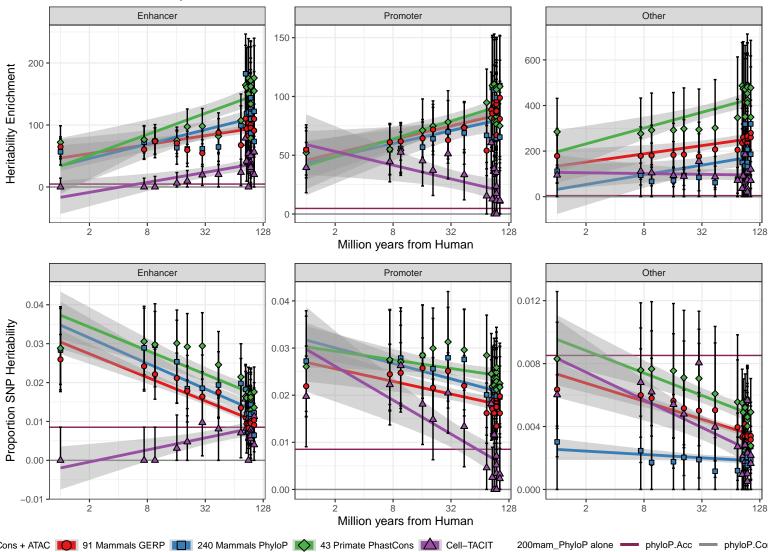
MSN\_D1.D2H, Napping\_E



MSN\_D1.D2H, SleepDurLong\_E Enhancer Promoter Other 200 400 600 Heritability Enrichment 150 300 400 100 200 100 -200 50 -100 32 128 128 32 8 32 8 128 2 Million years from Human Enhancer Promoter Other 0.015 0.05 Proportion SNP Heritability 0.04 0.04 0.010 0.03 0.02 0.02 0.005 0.01 0.00 0.00 32 32 128 32 128 8 2 8 128 Million years from Human

Cons + ATAC 🚺 91 Mammals GERP 🔲 240 Mammals PhyloP 🚺 43 Primate PhastCons 🛕 Cell-TACIT 200mam\_PhyloP alone 💳 phyloP.Acc 🥌 phyloP.Co

MSN\_D1.D2H, SleepDurShort\_E

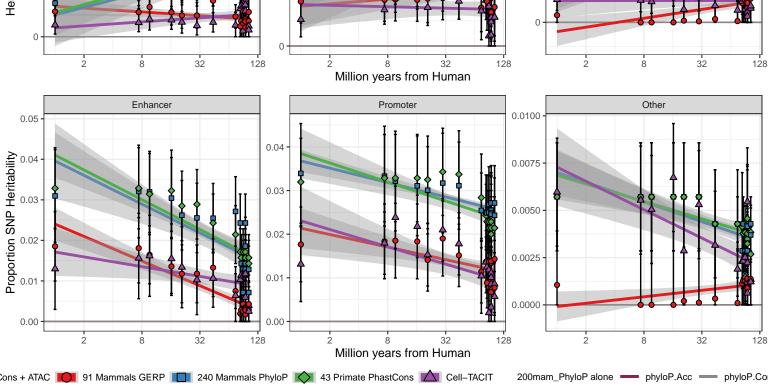


Heritability Enrichment 100 -Million years from Human

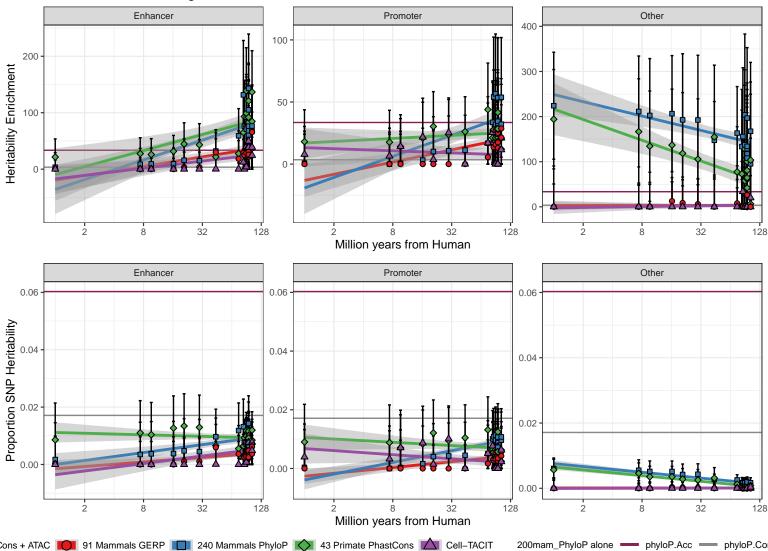
Promoter

Other

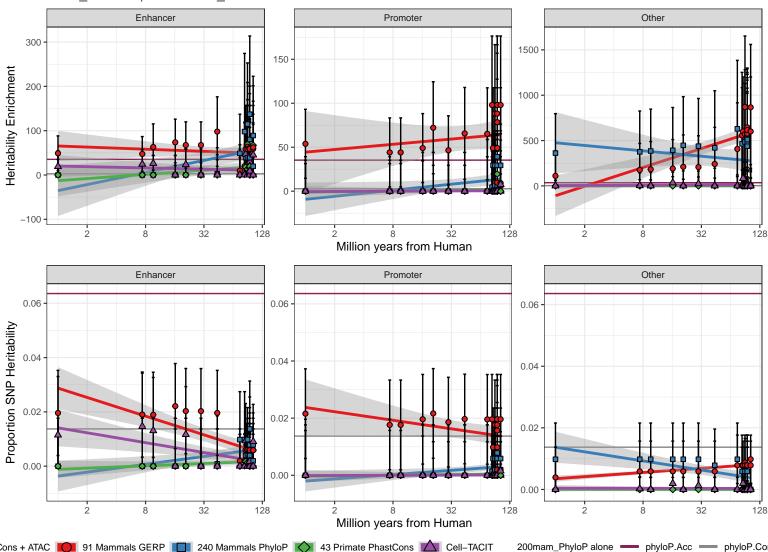
MSN\_D1.D2H, SleepDurTot\_E



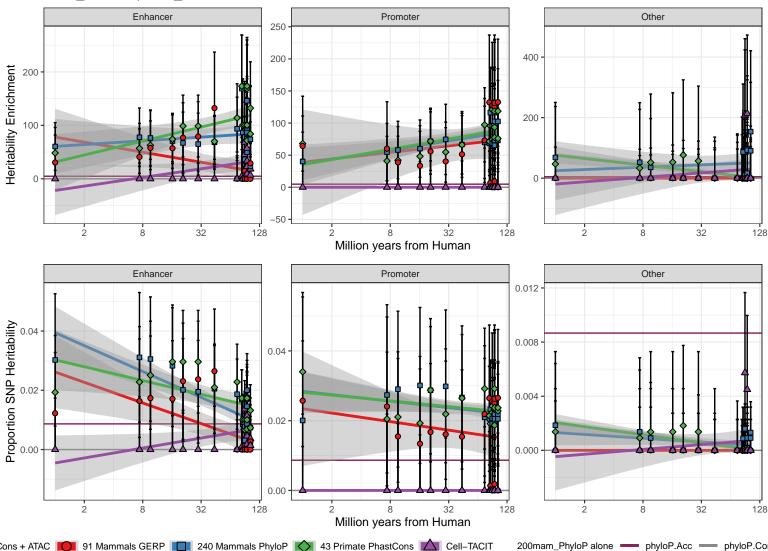
#### MSN\_D1.D2H, Snoring\_E



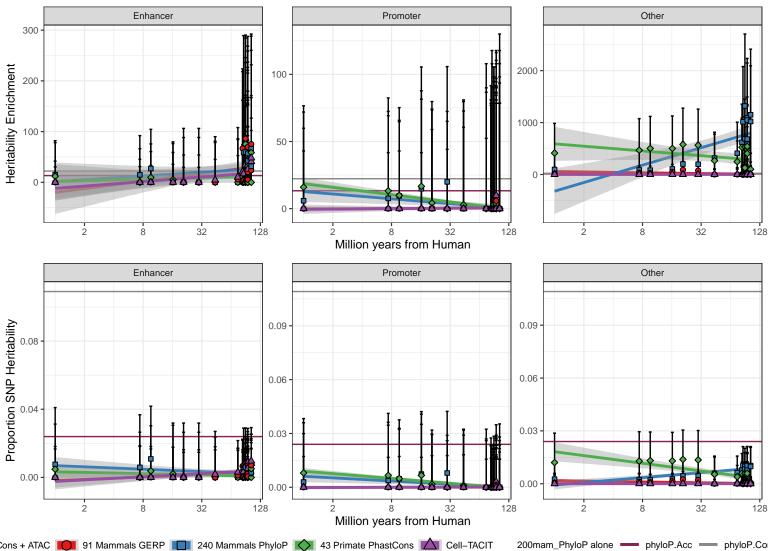
MSN\_D1.D2H, BloodUrea\_E



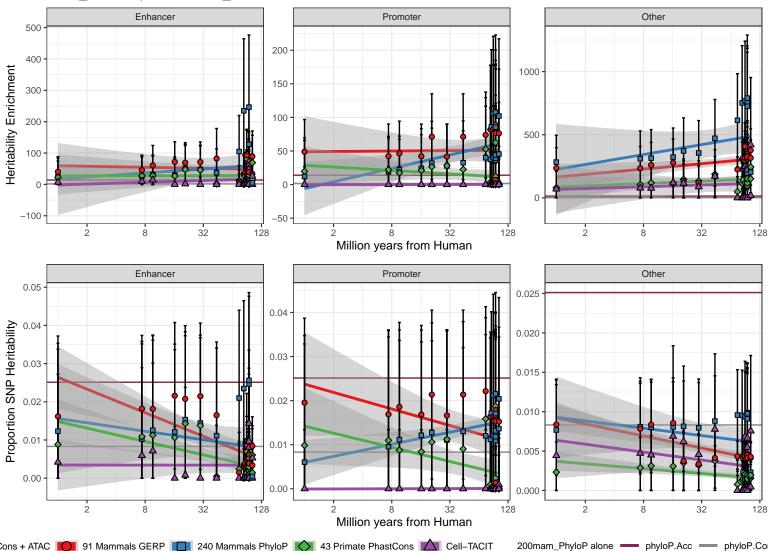
### MSN\_D1.D2H, HDL\_E



MSN\_D1.D2H, LDL\_E



MSN\_D1.D2H, T2Diabetes\_E



Heritability Enrichment 200 100 -1000 -100 50 -0 -100 32 128 32 32 128 2 128 2 8 8 Million years from Human Enhancer Promoter Other 0.08 0.075 -0.075

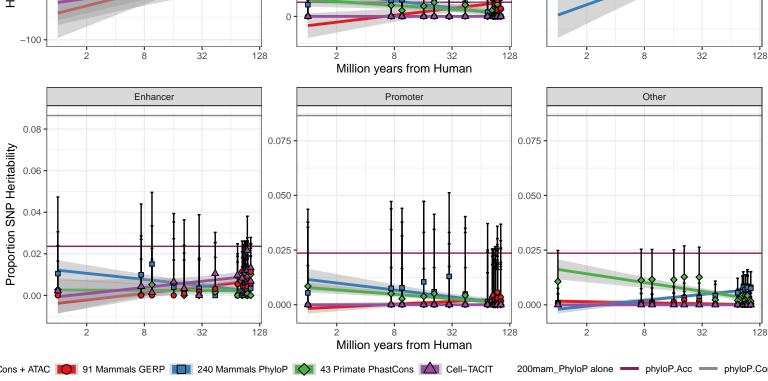
Promoter

150 **-**

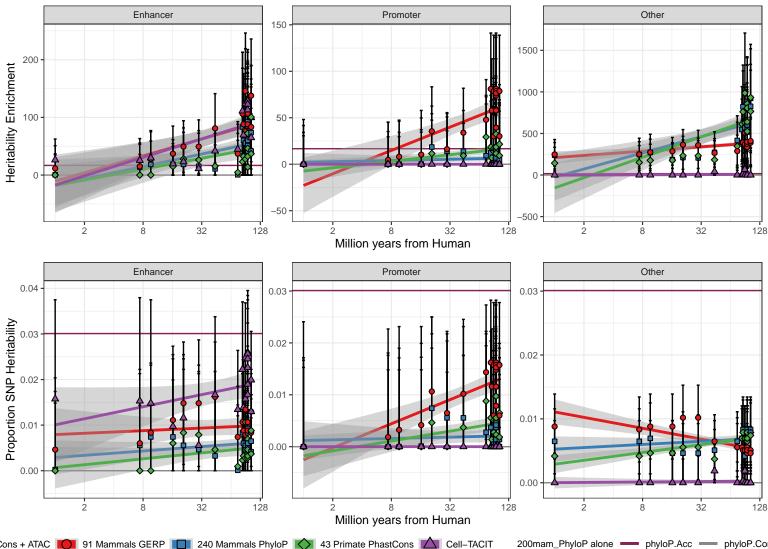
Other

MSN\_D1.D2H, TotCholesterol\_E Enhancer

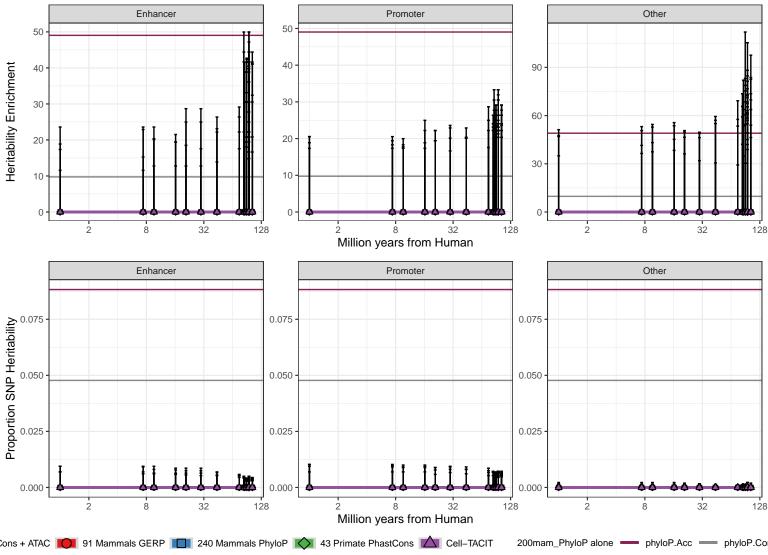
300



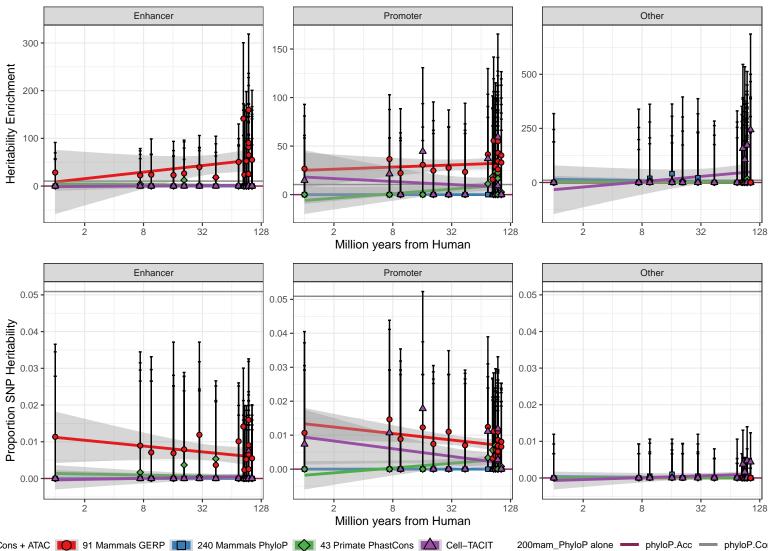
MSN\_D1.D2H, Triglycerides\_E



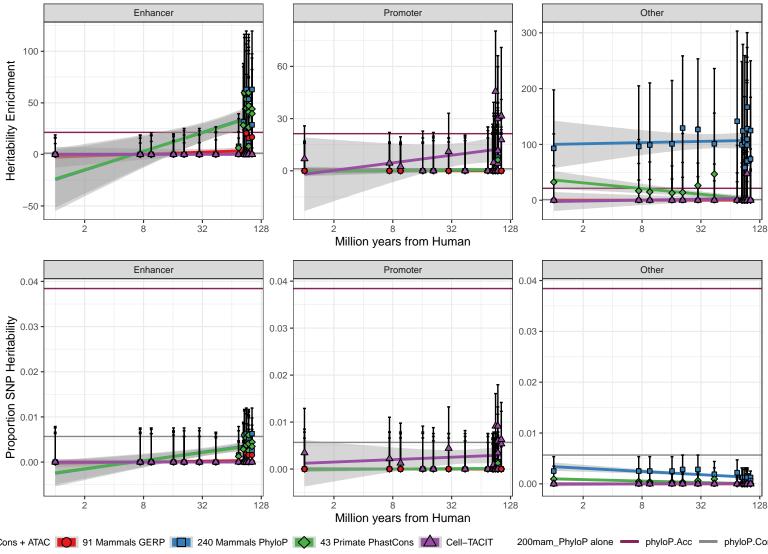
## MSN\_D1.D2H, BMD\_E



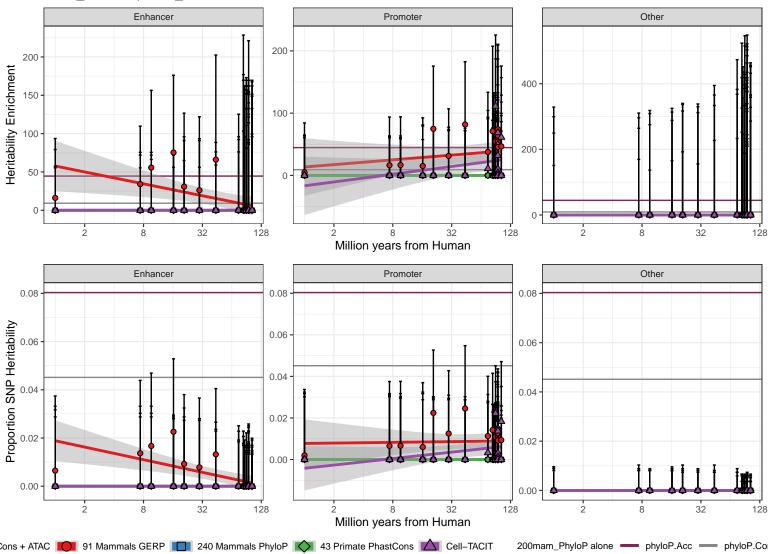
#### MSN\_D1.D2H, CAD\_E



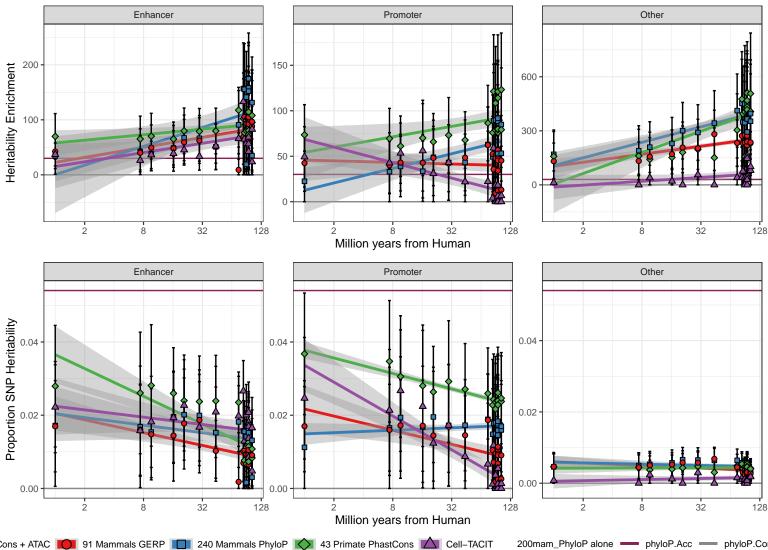
# MSN\_D1.D2H, Height\_E



#### MSN\_D1.D2H, LBM\_E



MSN\_D1.D2H, Longevity\_E



#### MSN\_D1.D2H, WHRadjBMI\_E

