
Bacteroides**reduced** **glmm.zinb, marg.R²: 0.131, cond.R²: 0.513**

fixed~poly(age,5), random~(1|ID.S), zi_fixed~TRUE, zi_random~(TRUE)

Intrcpt: 7.07(6.92,7.21)*** - age^1: 9.98(8.12,11.8)*** - age^2: -0.123(-1.96,1.72) - age^3: 0.02(-1.82,1.86) - age^4: 1.55(-0.294,3.4) - age^5: -0.671(-2.52,1.17)

full **glmm.zinb, marg.R²: 0.143, cond.R²: 0.519**

fixed~cut.age:shd.ltp+poly(age,5), random~(1|ID.S), zi_fixed~TRUE, zi_random~(TRUE)

Intrcpt: 7.07(6.92,7.21)*** - age^1: 9.89(8.01,11.8)*** - age^2: -0.248(-2.1,1.61) - age^3: -0.079(-1.93,1.77) - age^4: 1.46(-0.391,3.31) - age^5: -0.717(-2.57,1.13) - cut.age[3,215]:shd.post>90: -0.0804(-0.257,0.0957) - cut.age[215,427]:shd.post>90: 0.0457(-0.13,0.221) - cut.age[427,639]:shd.post>90: 0.156(-0.0115,0.324) - cut.age[639,851]:shd.post>90: 0.155(-0.0604,0.371)

Blautia**reduced** **glmm.zinb, marg.R²: 0.479, cond.R²: 0.706**

fixed~poly(age,5), random~(1|ID.S), zi_fixed~TRUE, zi_random~(TRUE)

Intrcpt: 6.34(6.2,6.49)*** - age^1: 22.5(20.2,24.8)*** - age^2: -10.2(-12.4,-8.07)*** - age^3: 3.19(1.03,5.35)** - age^4: 0.0441(-2.03,2.12) - age^5: 0.392(-1.5,2.29)

full **glmm.zinb, marg.R²: 0.479, cond.R²: 0.707**

fixed~cut.age:shd.ltp+poly(age,5), random~(1|ID.S), zi_fixed~TRUE, zi_random~(TRUE)

Intrcpt: 6.35(6.21,6.5)*** - age^1: 22.2(19.8,24.5)*** - age^2: -9.76(-11.9,-7.61)*** - age^3: 2.77(0.618,4.92)* - age^4: 0.405(-1.66,2.47) - age^5: 0.247(-1.63,2.12) - cut.age[3,215]:shd.post>90: 0.273(0.0575,0.489)* - cut.age[215,427]:shd.post>90: 0.0594(-0.109,0.228) - cut.age[427,639]:shd.post>90: 0.106(-0.0469,0.258) - cut.age[639,851]:shd.post>90: 0.0387(-0.159,0.237)
