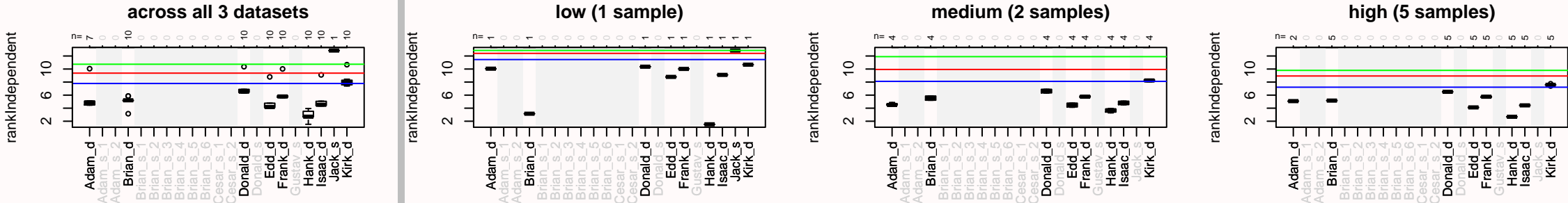


- superkingdom
- phylum
- class
- order
- family
- genus
- species
- strain

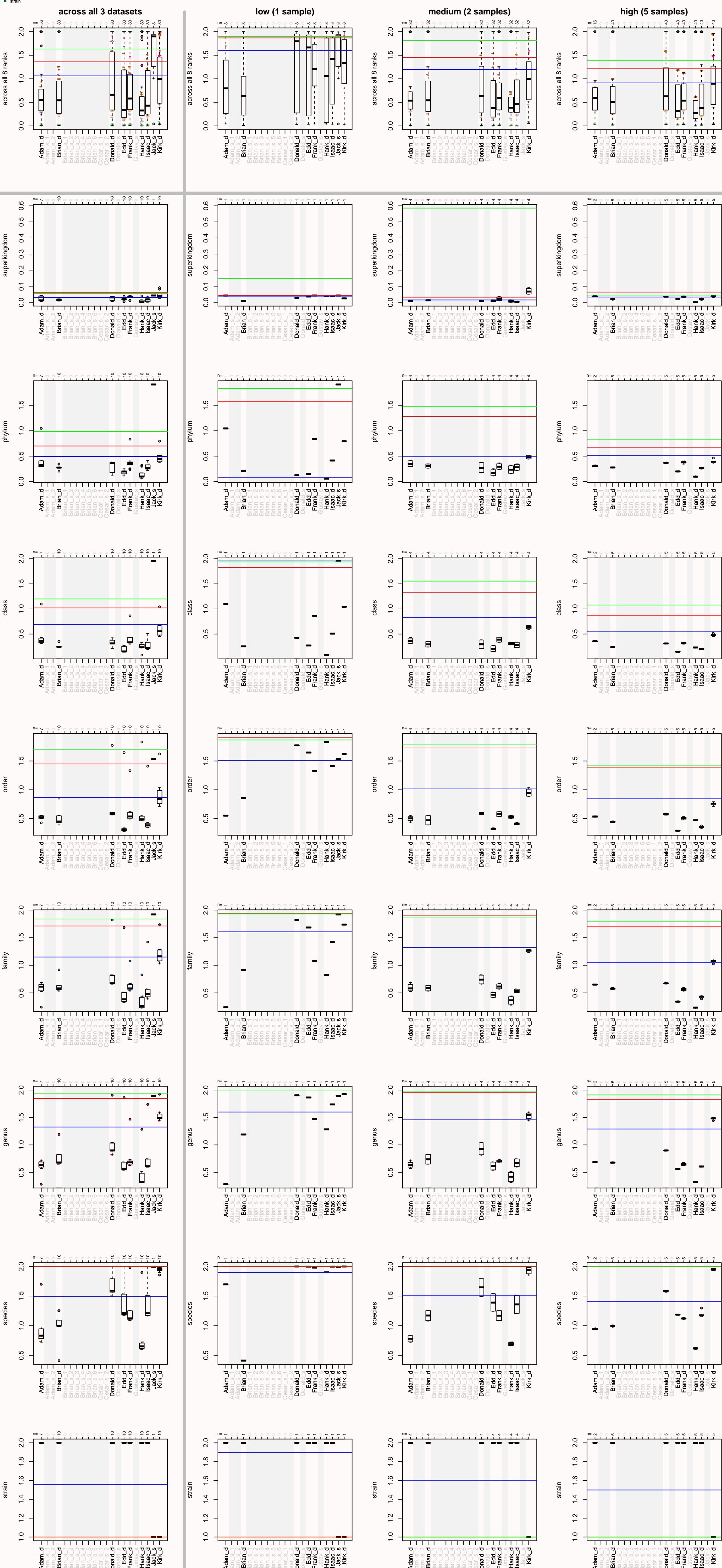
Toy competition, metric: Unifrac



significance level 90%, 1000 iterations for the following background models:

- true number of species, drawn from all 328832 bacterial species in NCBI, abundances from log-normal($\mu=1.0, \sigma=2.0$)
- true number of species, drawn from all ever predicted species (6848), abundances from log-normal($\mu=1.0, \sigma=2.0$)
- true strains, true but shuffled abundances

Toy competition, metric: L1norm



significance level 90%, 1000 iterations for the following background models:

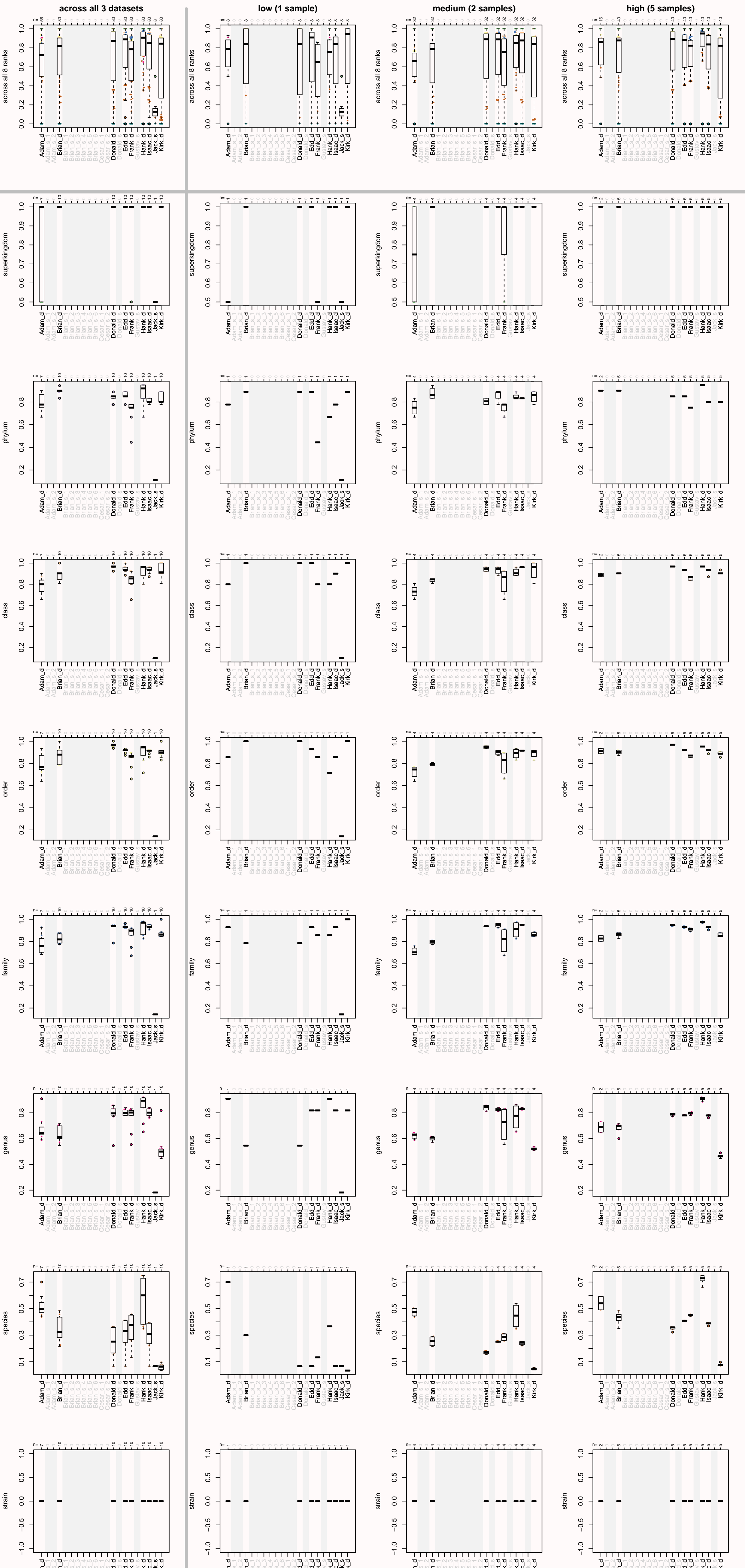
— true number of species, drawn from all 328832 bacterial species in NCBI, abundances from log-normal($\mu=1.0, \sigma=2.0$)

— true number of species, drawn from all ever predicted species (6848), abundances from log-normal($\mu=1.0, \sigma=2.0$)
— true strains, true but shuffled abundances

true strains, true but shuffled abundances

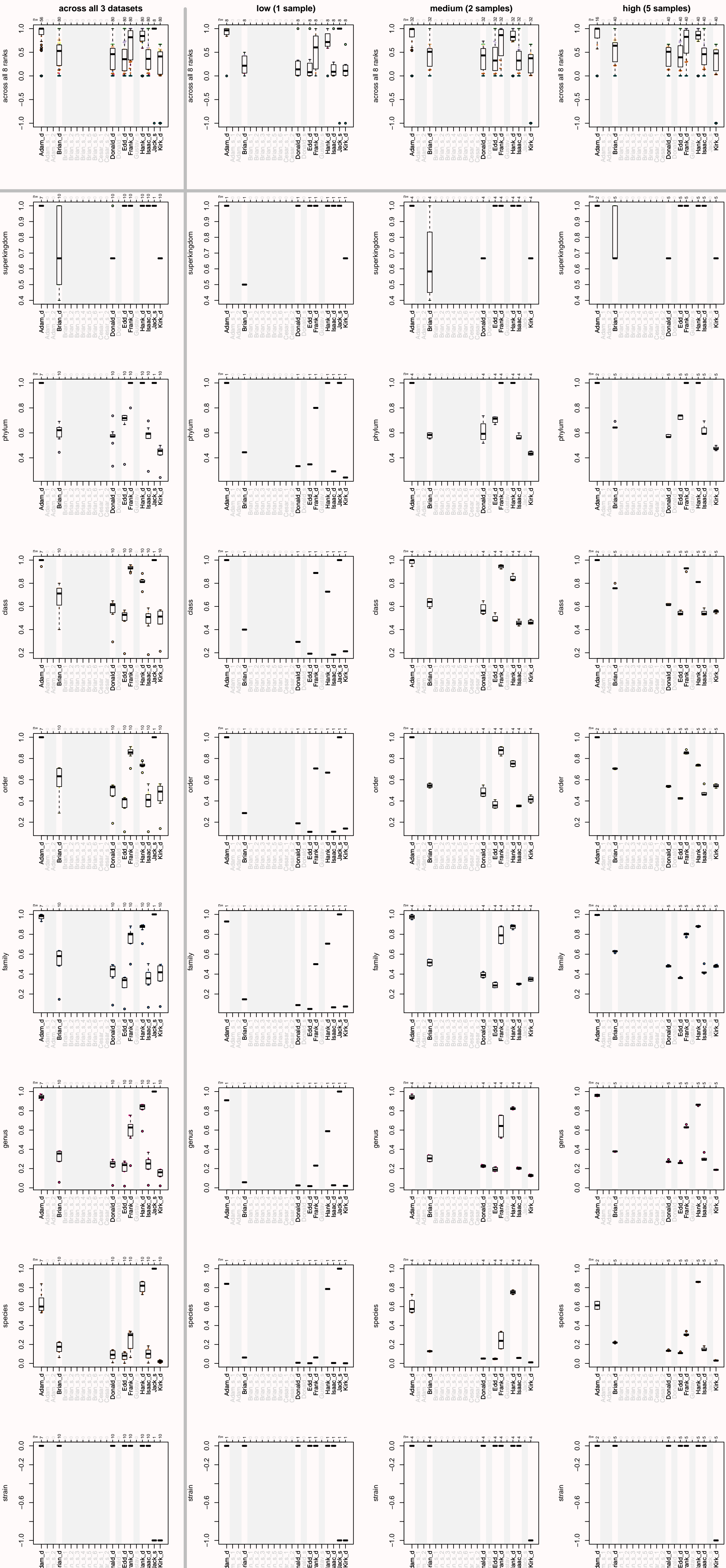
phyllum
class
order
family
genus
species
strain

Toy competition, metric: Sensitivity



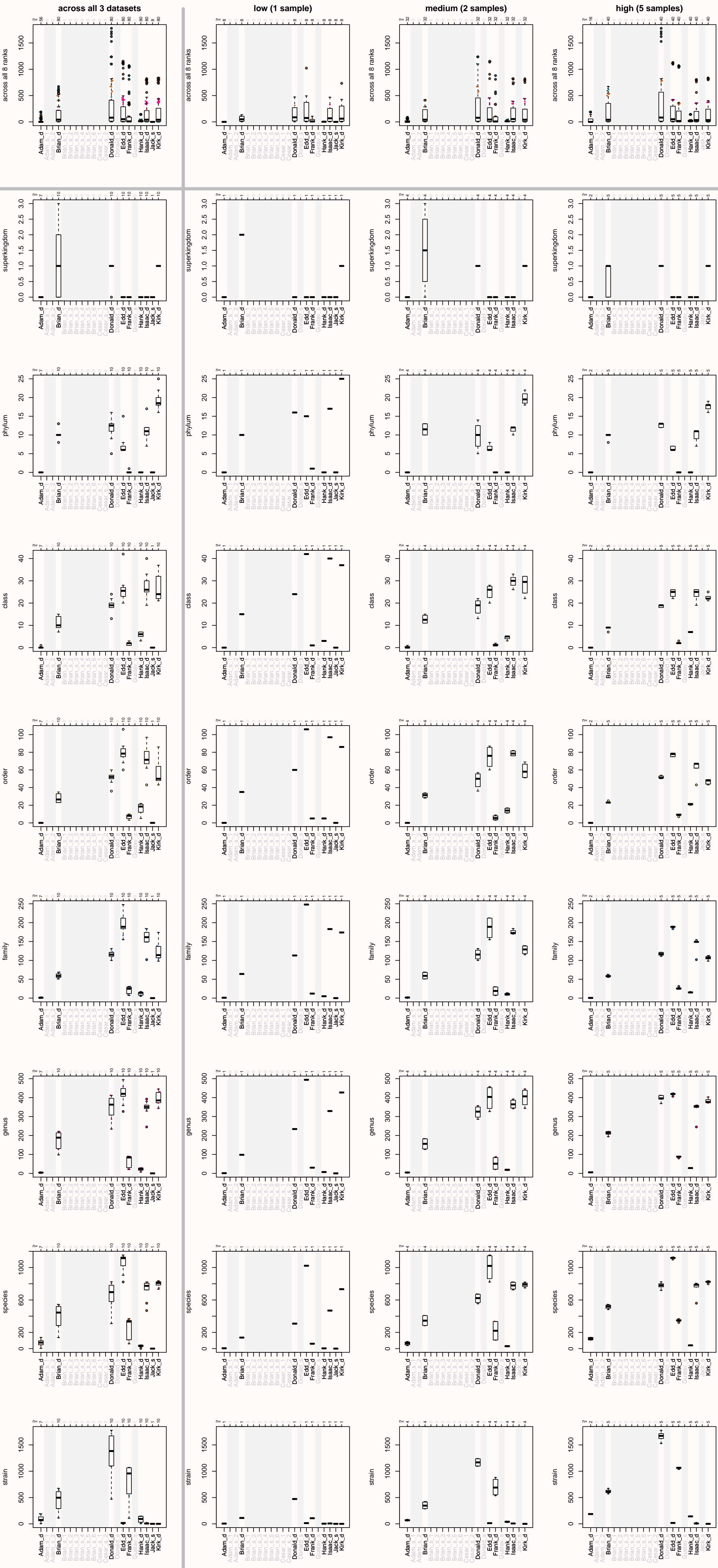
phylogeny
class
order
family
genus
species
strain

Toy competition, metric: Precision



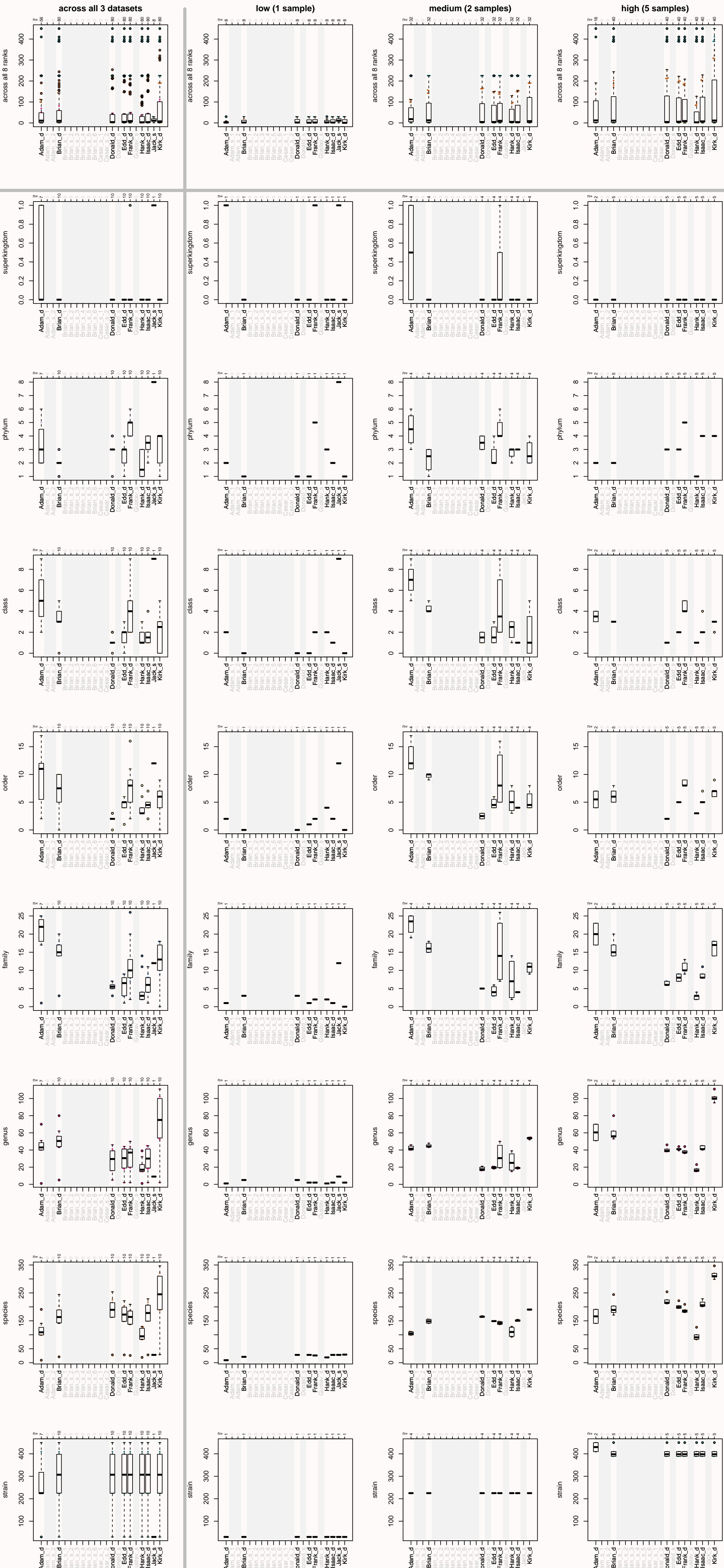
phyllum
class
order
family
genus
species
strain

Toy competition, metric: False Positives



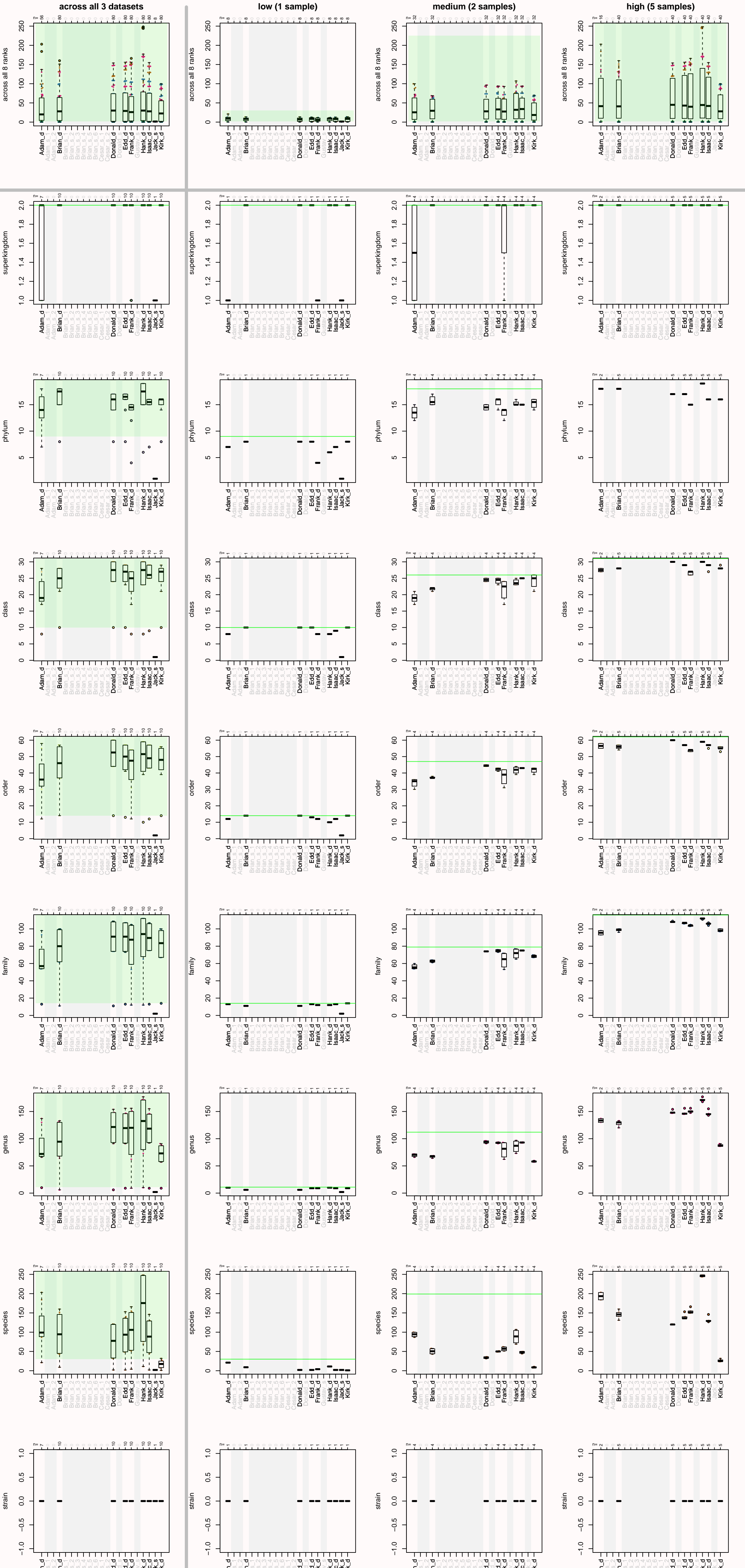
phyllum
class
order
family
genus
species
strain

Toy competition, metric: False Negatives



phylogeny
class
order
family
genus
species
strain

Toy competition, metric: True Positives



number of taxonomic classes in gold standard profile(s)