Age

●	Actinomycetales
●	Bacteroidales
●	Christensenellales
●	Coriobacteriales
●	Enterobacterales
●	Erysipelotrichales
●	Lachnospirales
●	Lactobacillales
●	Oscillospirales
●	other
●	Saccharimonadales
●	novel
■	known

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●	Bacteroidales
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●	Lachnospirales
●	Lactobacillales
●	Oscillospirales
●	other
●	Saccharimonadales
●	novel
■	known

Physical activity

Energy intake

Fiber intake

BMI

Figure: Sex

Top panel: Higher in female / Higher in male. X-axis: Index. Y-axis: -log10(FDR)*direction of change.

Legend (top):
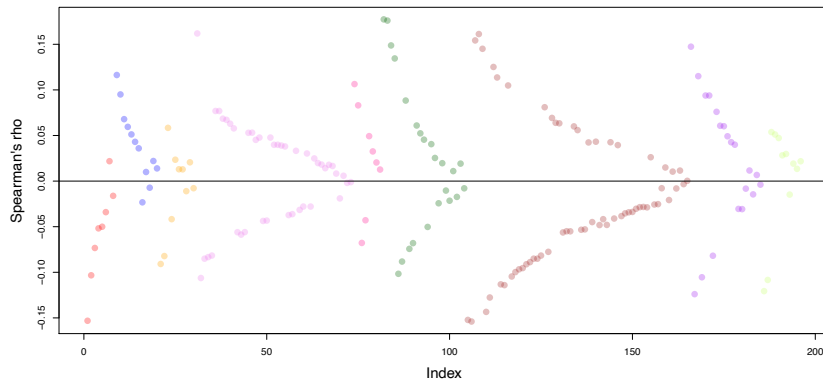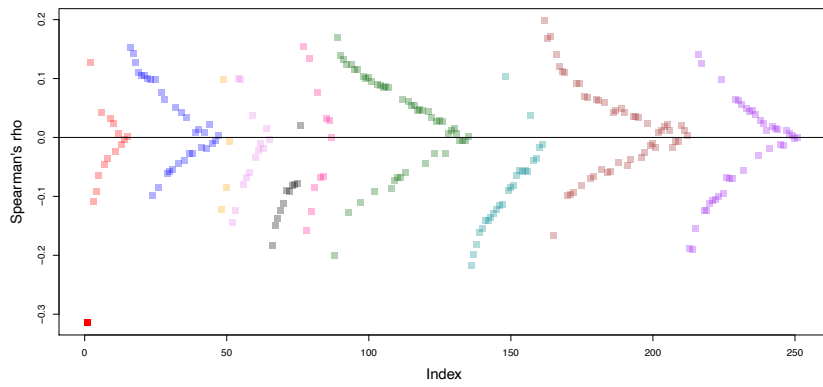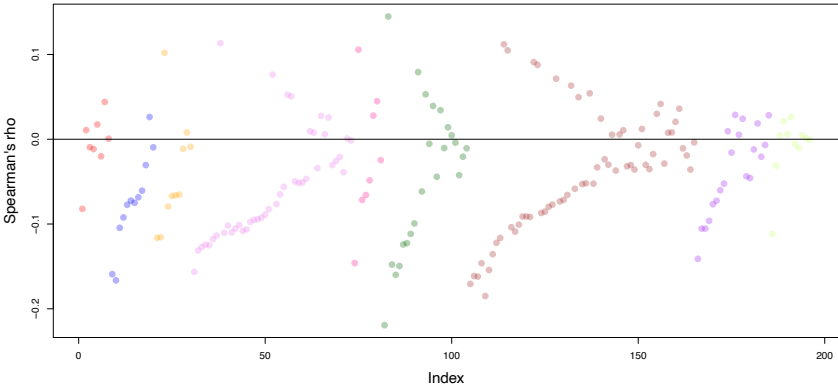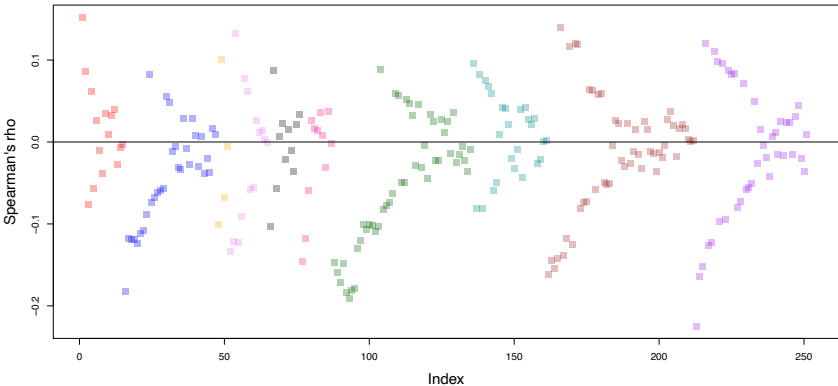- Actinomycetales
- Bacteroidales
- Christensenellales
- Coriobacteriales
- Enterobacterales
- Erysipelotrichales
- Lachnospirales
- Lactobacillales
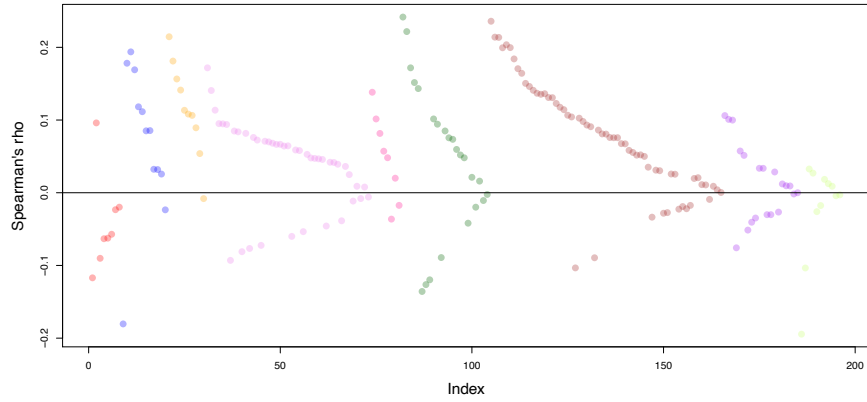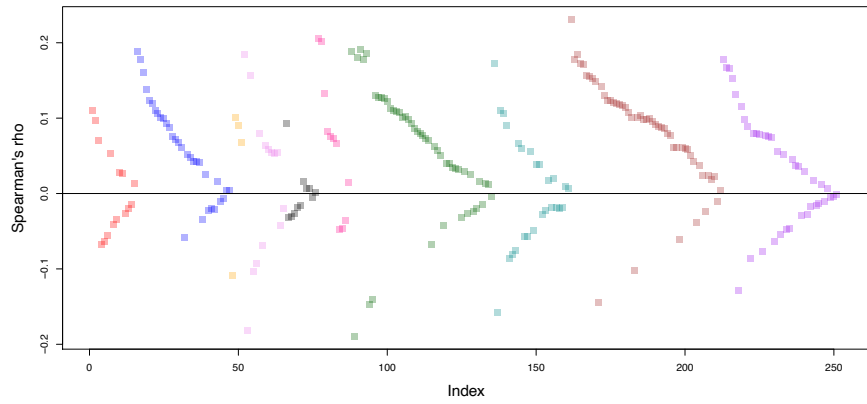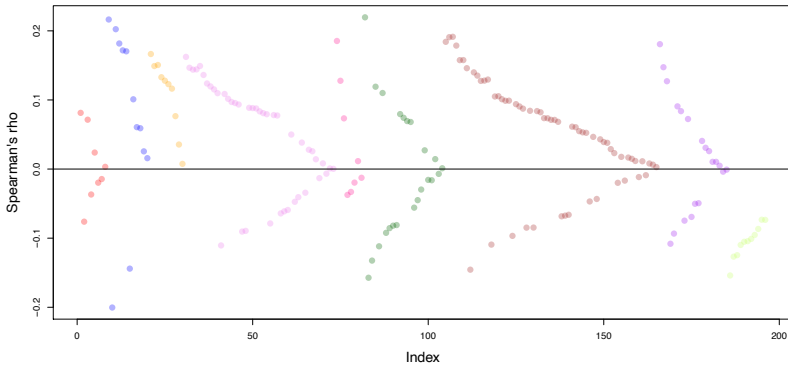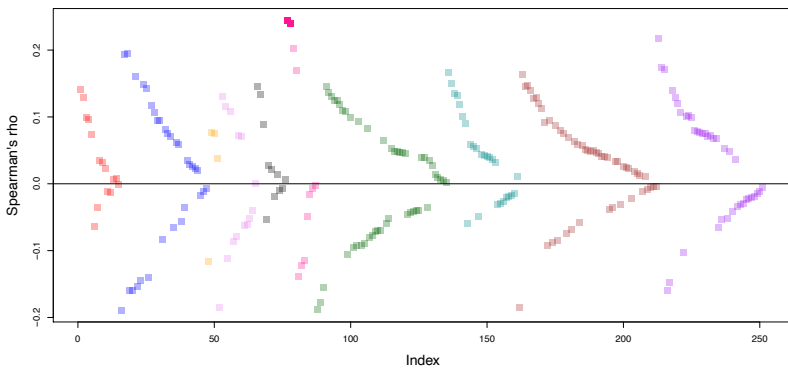- Oscillospirales
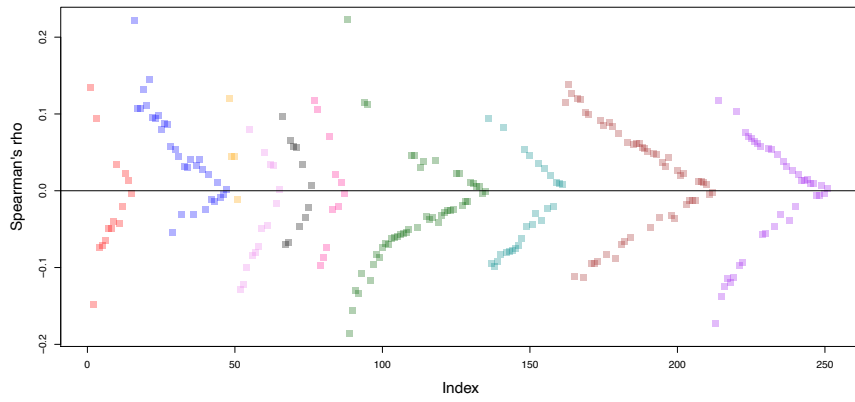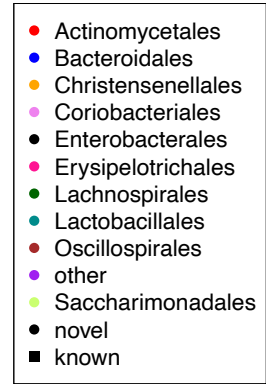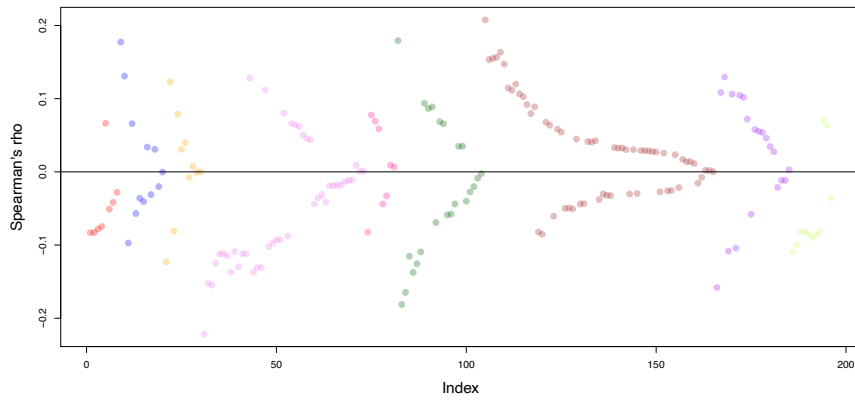- other
- Saccharimonadales
- novel
- known

Bottom panel: Higher in female / Higher in male. X-axis: Index. Y-axis: -log10(FDR)*direction of change.
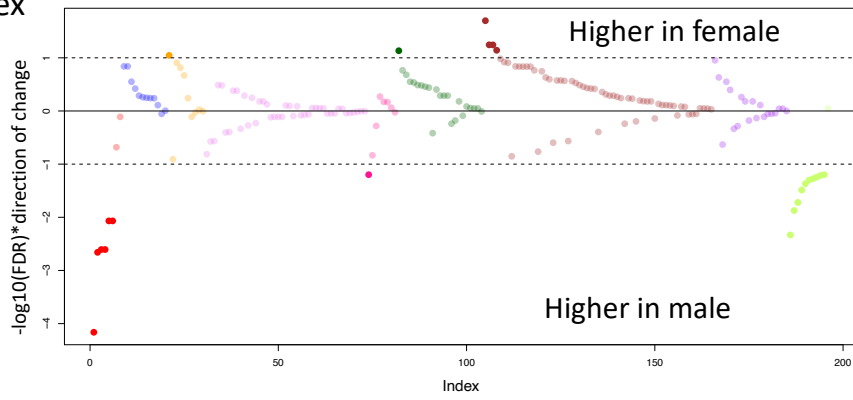
Legend (bottom):
- Actinomycetales
- Bacteroidales
- Christensenellales
- Coriobacteriales
- Enterobacterales
- Erysipelotrichales
- Lachnospirales
- Lactobacillales
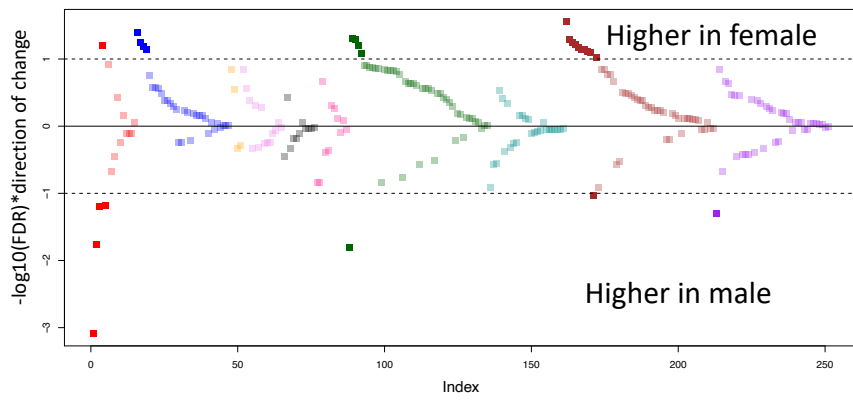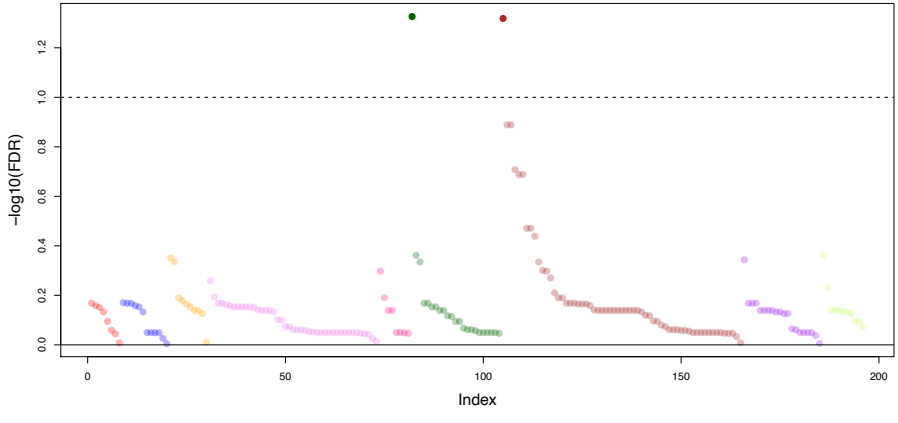- Oscillospirales
- other
- Saccharimonadales
- novel
- known

Education

Drinking water source
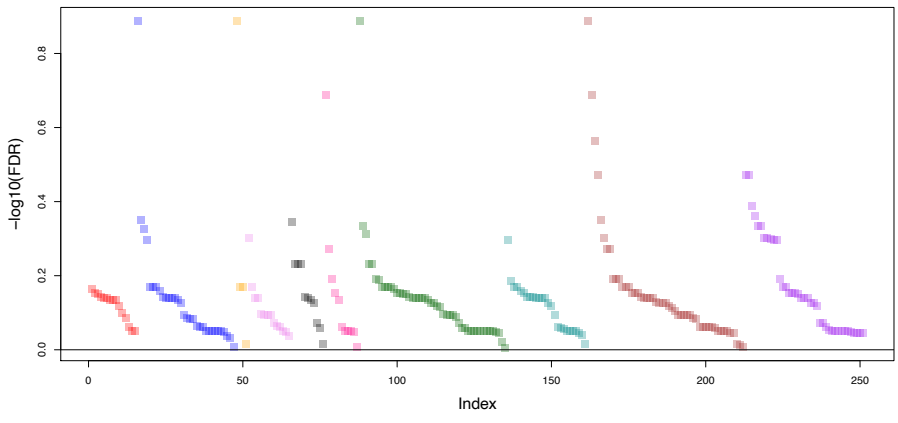
Toilet type

Legend (top):
- Actinomycetales
- Bacteroidales
- Christensenellales
- Coriobacteriales
- Enterobacterales
- Erysipelotrichales
- Lachnospirales
- Lactobacillales
- Oscillospirales
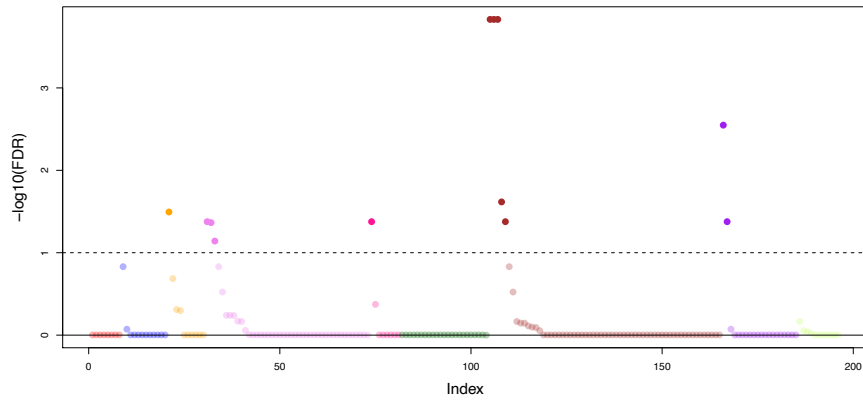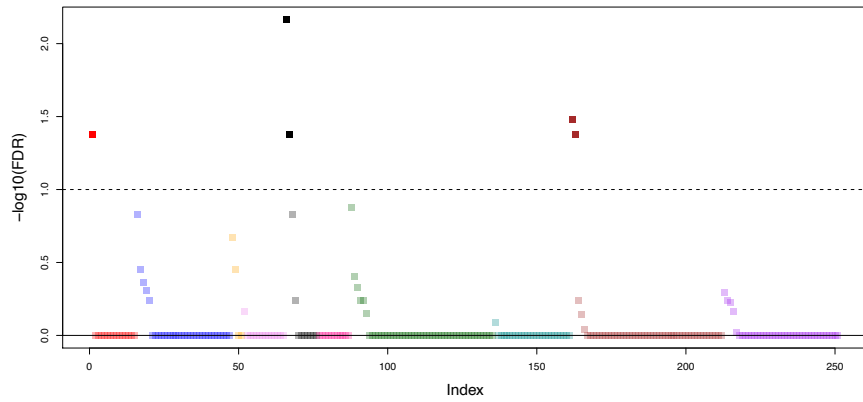- other
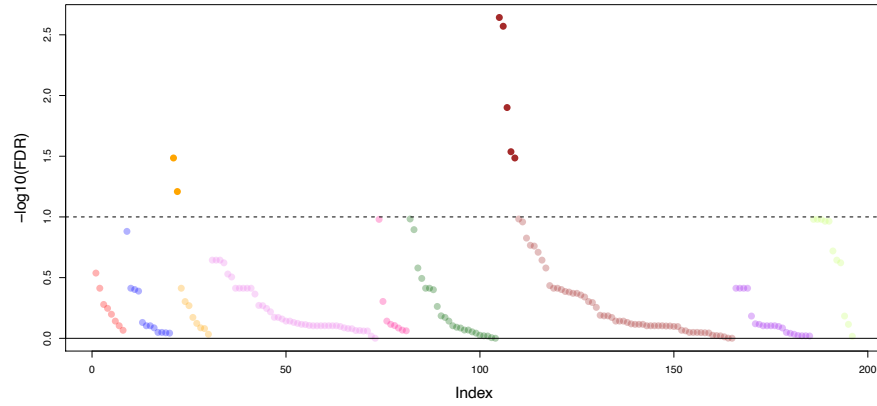- Saccharimonadales
- novel
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Legend (bottom):
- Actinomycetales
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- Lachnospirales
- Lactobacillales
- Oscillospirales
- other
- Saccharimonadales
- novel
- known