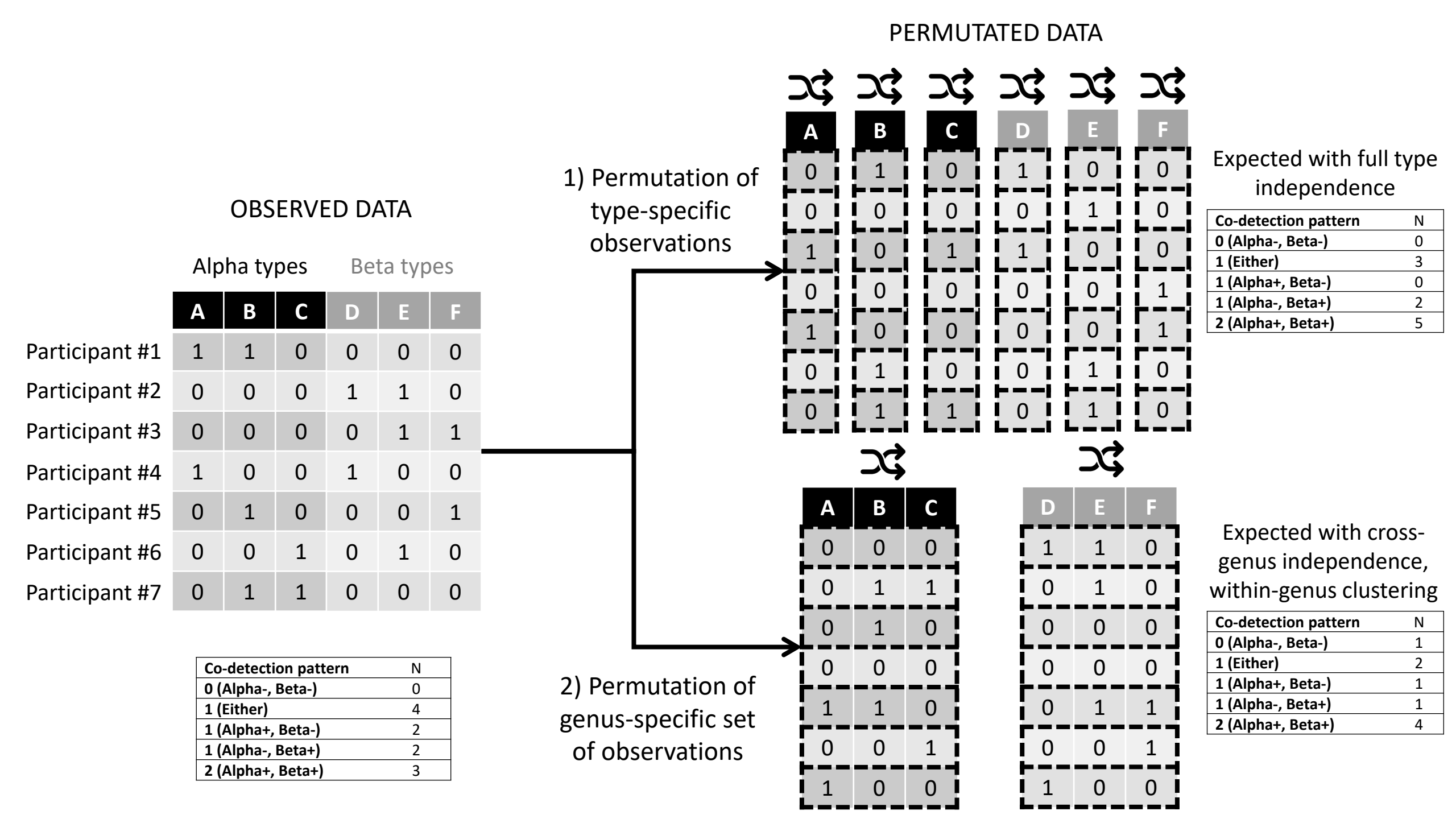
PERMUTATED DATA
OBSERVED DATA
Alpha types
Beta types
A B C D E F
Participant #1 1 1 0 0 0 0
Participant #2 0 0 0 1 1 0
Participant #3 0 0 0 0 1 1
Participant #4 1 0 0 1 0 0
Participant #5 0 1 0 0 0 1
Participant #6 0 0 1 0 1 0
Participant #7 0 1 1 0 0 0
1) Permutation of type-specific observations
2) Permutation of genus-specific set of observations
A B C D E F
0 1 0 1 0 0
0 0 0 0 1 0
1 0 1 1 0 0
0 0 0 0 0 1
1 0 0 0 0 1
0 1 0 0 1 0
0 1 1 0 1 0
A B C
0 0 0
0 1 1
0 1 0
0 0 0
1 1 0
0 0 1
1 0 0
D E F
1 1 0
0 1 0
0 0 0
0 0 0
0 1 1
0 0 1
1 0 0
Co-detection pattern N
0 (Alpha-, Beta-) 0
1 (Either) 4
1 (Alpha+, Beta-) 2
1 (Alpha-, Beta+) 2
2 (Alpha+, Beta+) 3
Expected with full type independence
Co-detection pattern N
0 (Alpha-, Beta-) 0
1 (Either) 3
1 (Alpha+, Beta-) 0
1 (Alpha-, Beta+) 2
2 (Alpha+, Beta+) 5
Expected with cross-genus independence, within-genus clustering
Co-detection pattern N
0 (Alpha-, Beta-) 1
1 (Either) 2
1 (Alpha+, Beta-) 1
1 (Alpha-, Beta+) 1
2 (Alpha+, Beta+) 4