Augmented Figures 2, 3, and 5 to accompany:

Preacher, K. J., Zhang, G., Kim, C., & Mels, G. (2013). Choosing the optimal number of factors in exploratory factor analysis: A model selection perspective. *Multivariate Behavioral Research*, *48*, 28-56.

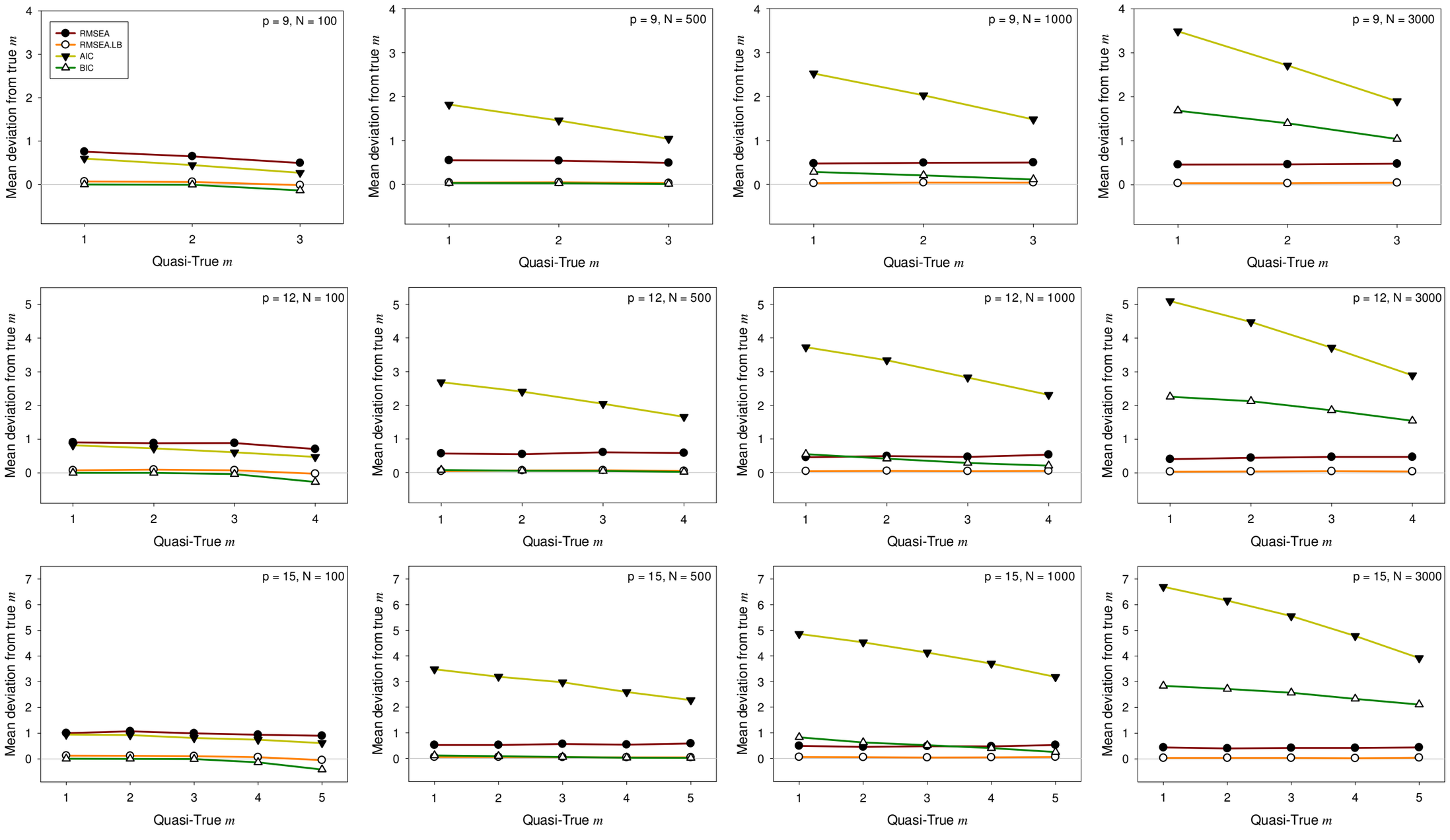

Figure S2. Degree of under- or overfactoring for RMSEA and its CI lower bound, AIC, and BIC for three numbers of variables (p = 9, 12, 15) and four sample sizes (N = 100, 500, 1000, 3000).

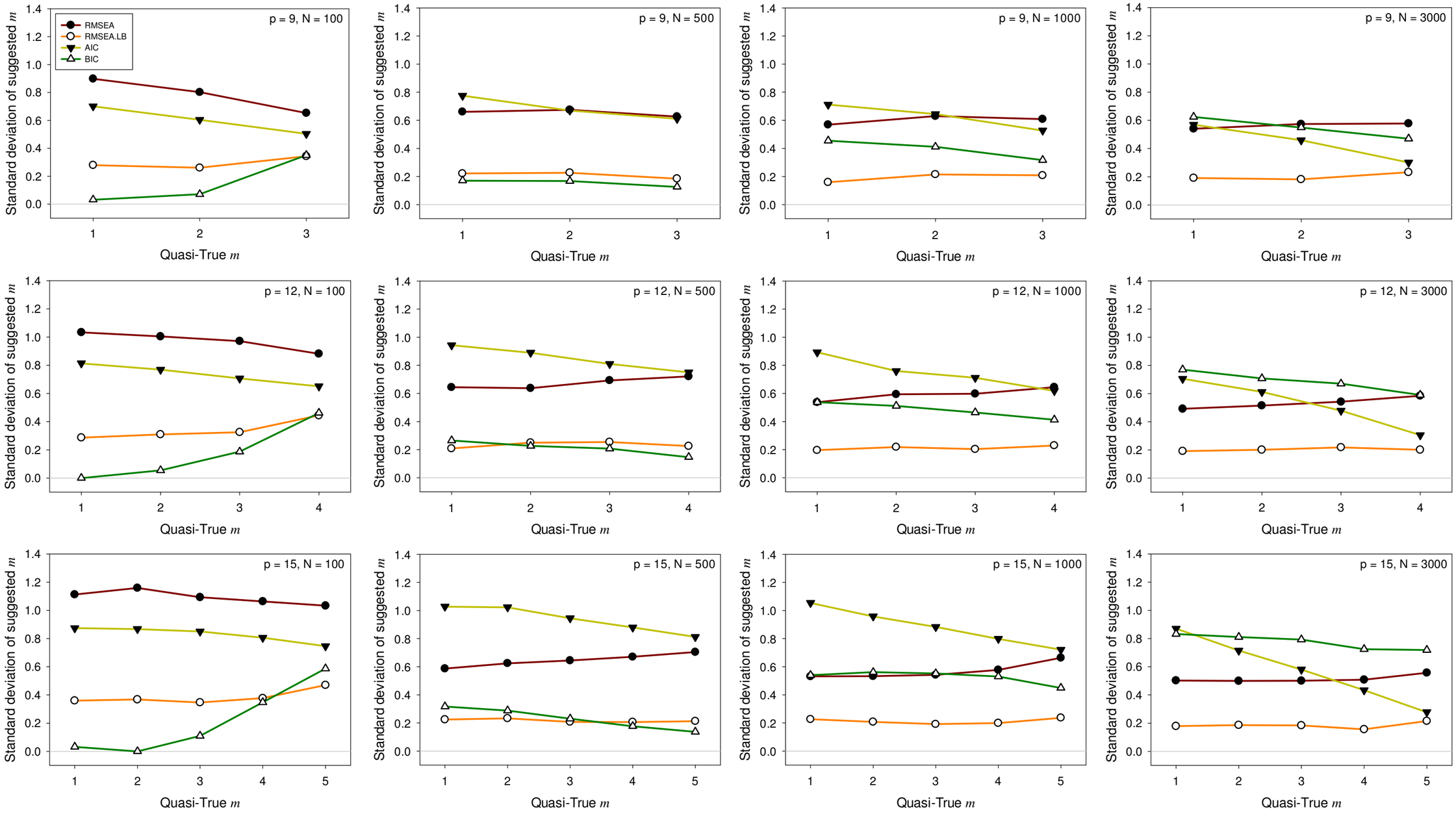

Figure S3. Standard deviation of the recommended m for RMSEA and its CI lower bound, AIC, and BIC for three numbers of variables (p = 9, 12, 15) and four sample sizes (N = 100, 500, 1000, 3000).

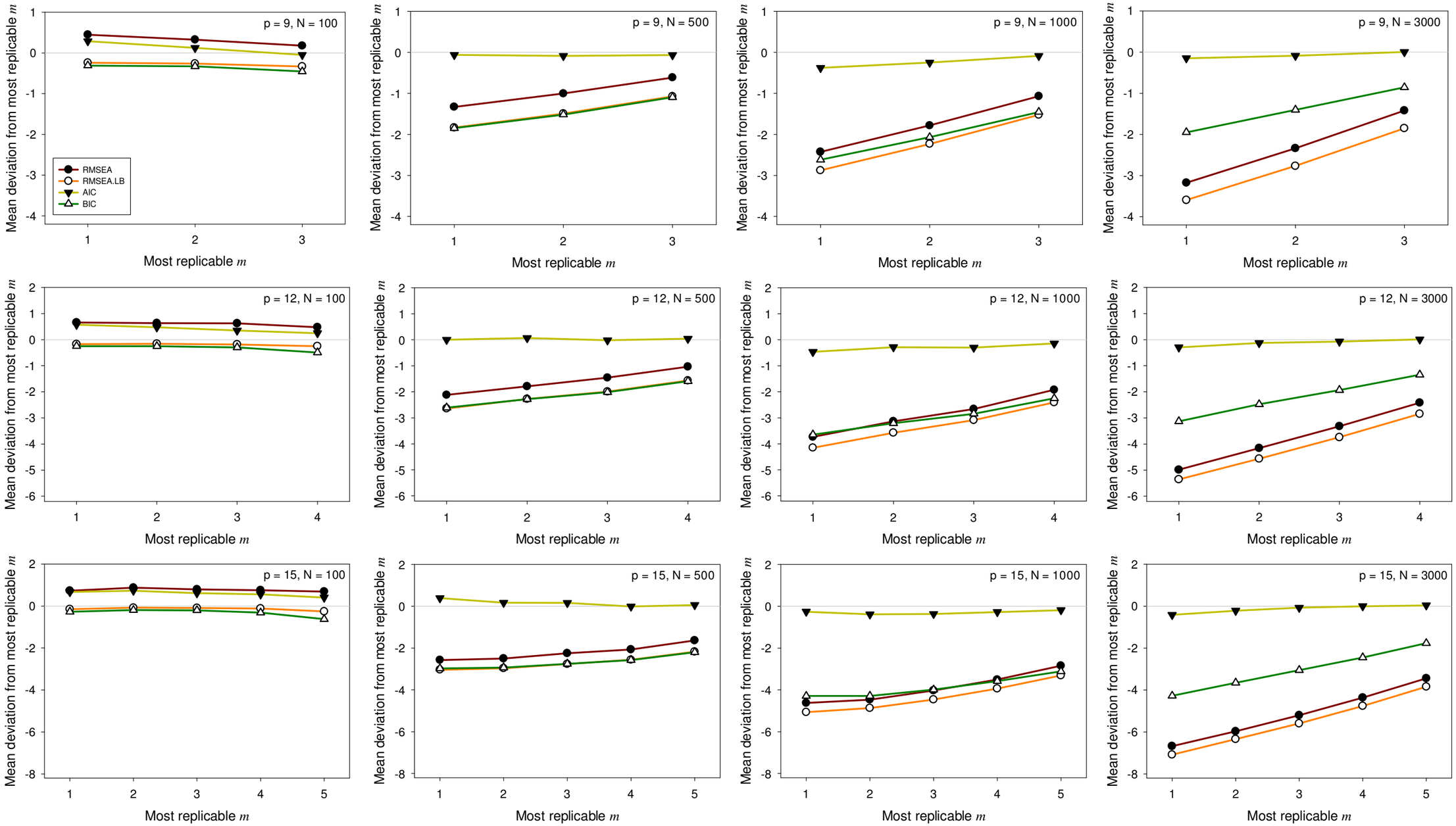

Figure S5. Discrepancy (mean absolute deviation) between the selected *m* and the *m* with the highest likelihood on cross-validation for RMSEA and its CI lower bound, AIC, and BIC for three numbers of variables (p = 9, 12, 15) and four sample sizes (N = 100, 500, 1000, 3000).