

Title: Organic Molecules are Deterministically Assembled across River Corridor Sediments

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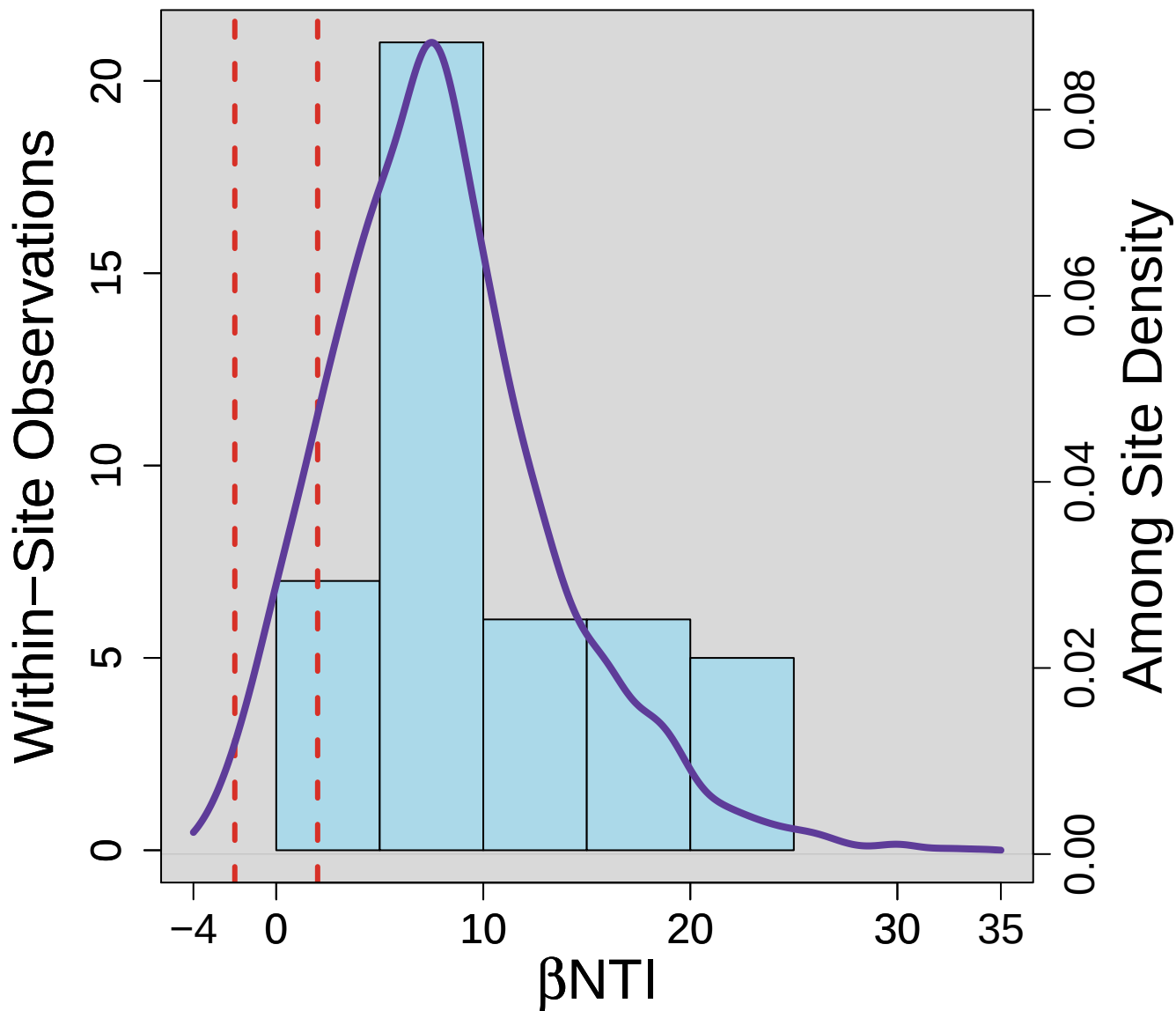
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Supplementary Figures

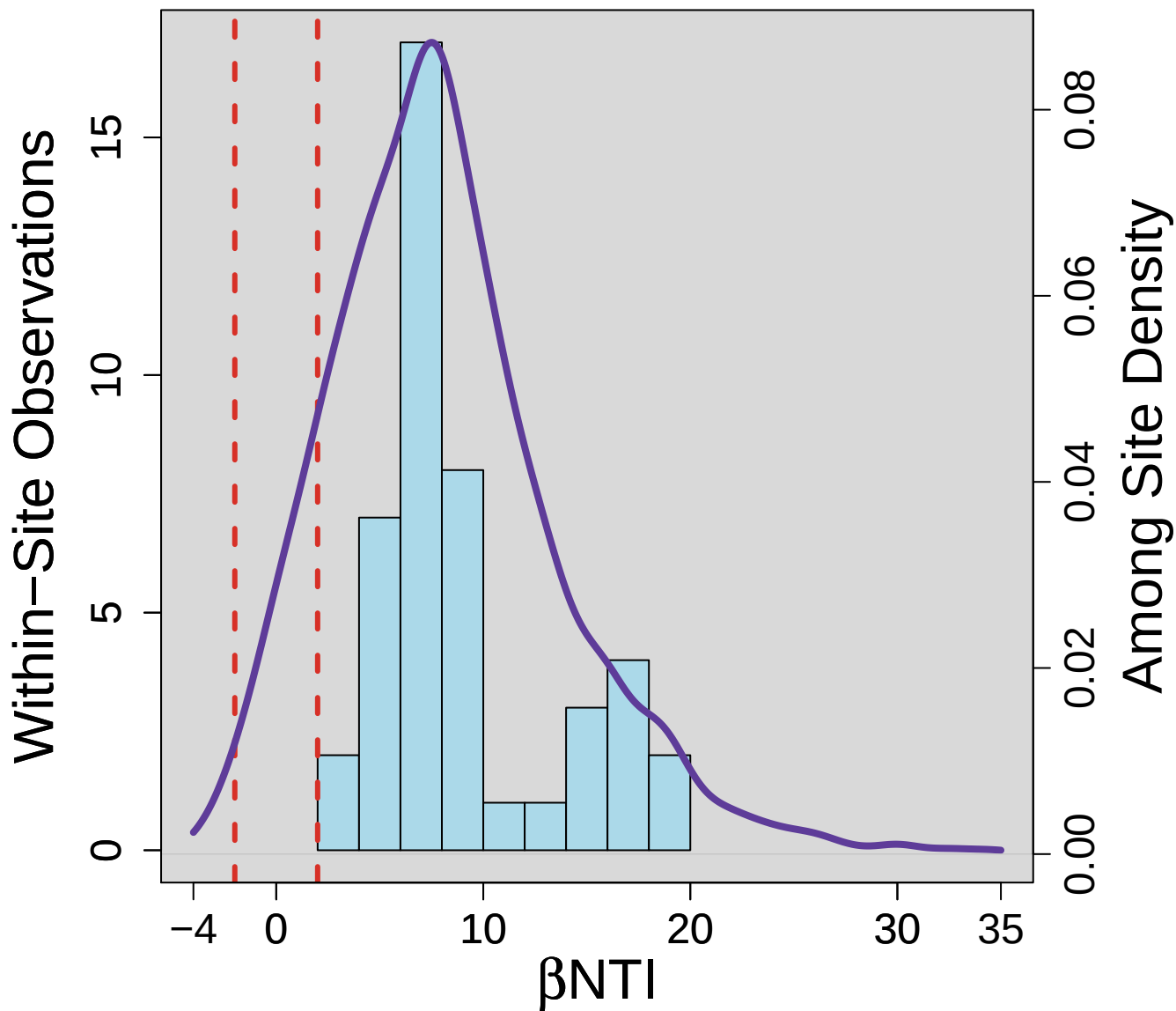
Figure S1: Within - and among -site distributions of dissolved organic matter (DOM) β NTI.

Each site is shown as one panel, across the following 38 pages. The following caption applies to each of those 38 panels. On each panel there is the site-level β NTI distribution (blue histogram, left-hand axis) and the aggregate (i.e., among site) β NTI distribution across all pairwise comparisons (purple line, right-hand axis). The aggregate distribution is the same on all panels and **was** fit as a Gaussian kernel density function. Vertical red dashed lines are at -2 and +2, which are the significance thresholds for β NTI. Values < -2 or > +2 indicate deterministic assembly, while values between -2 and +2 indicate stochastic assembly.

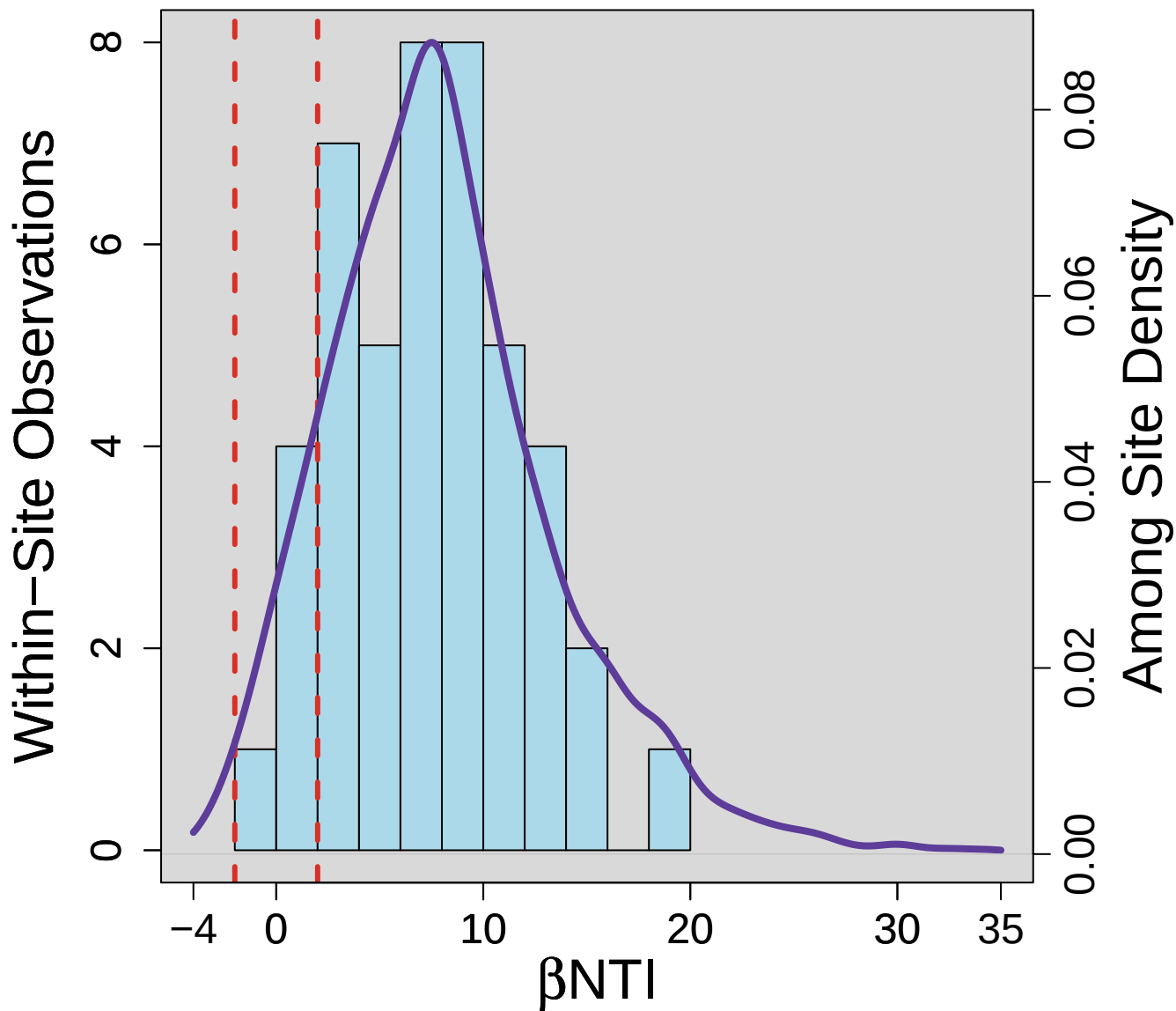
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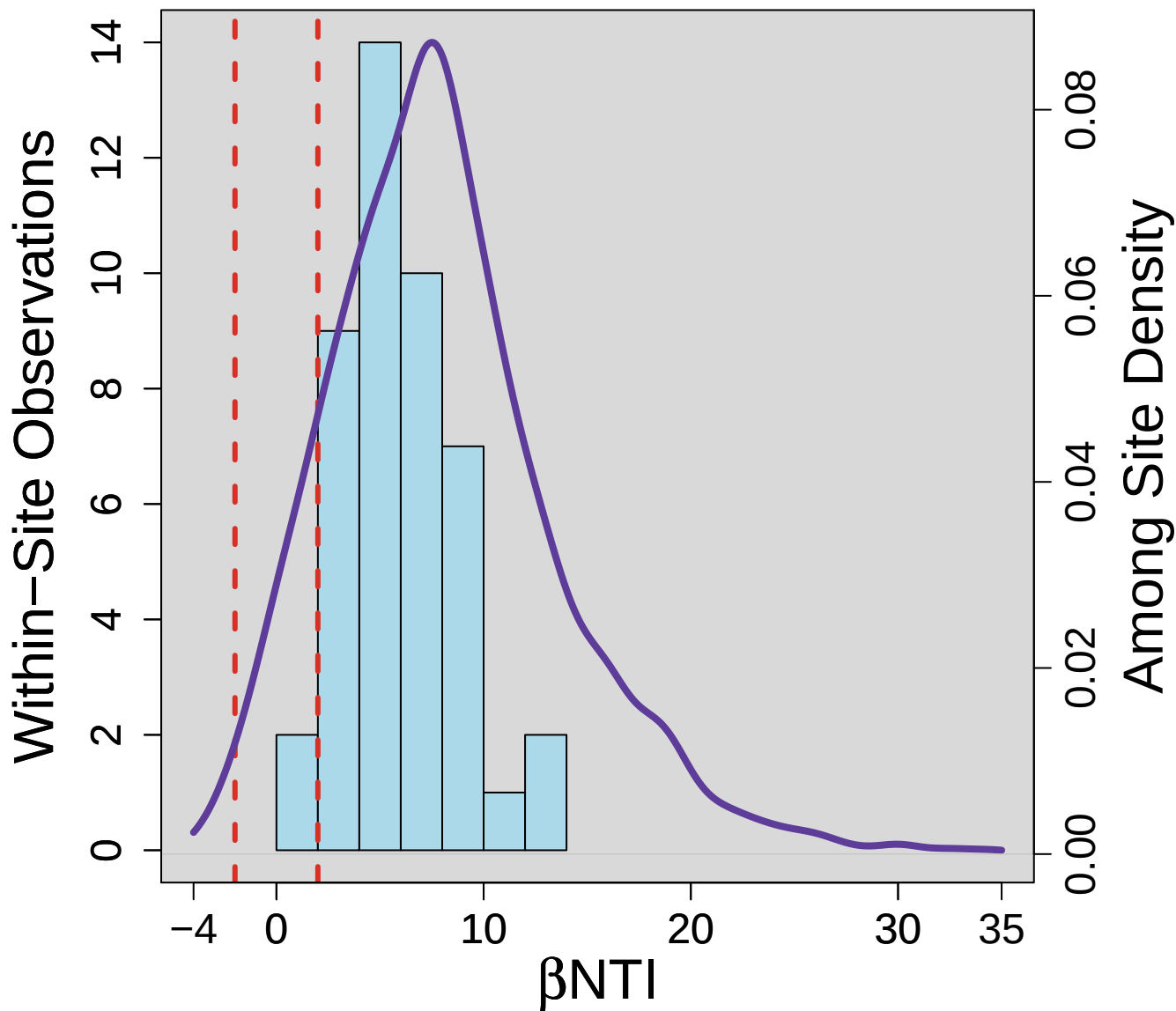
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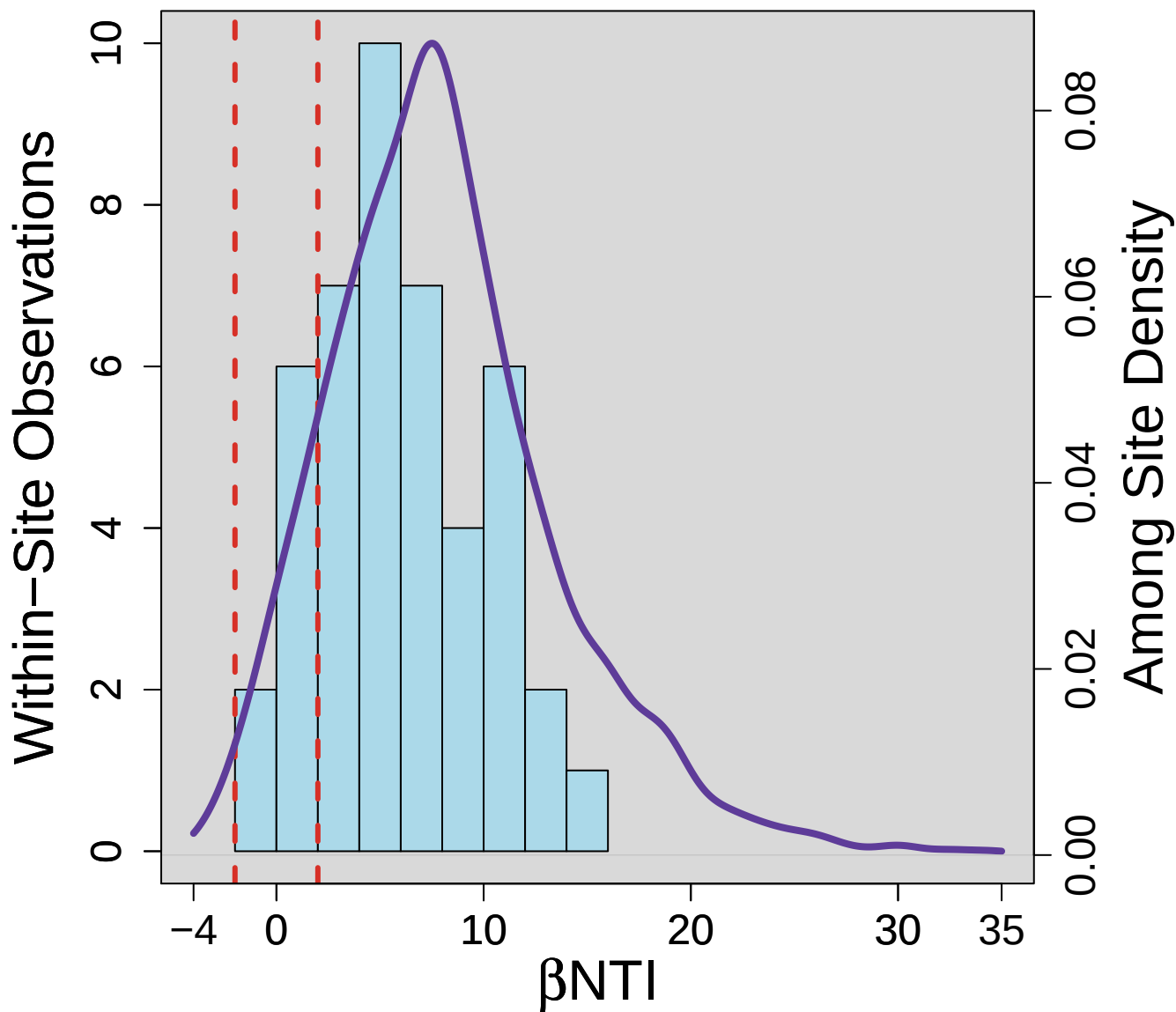
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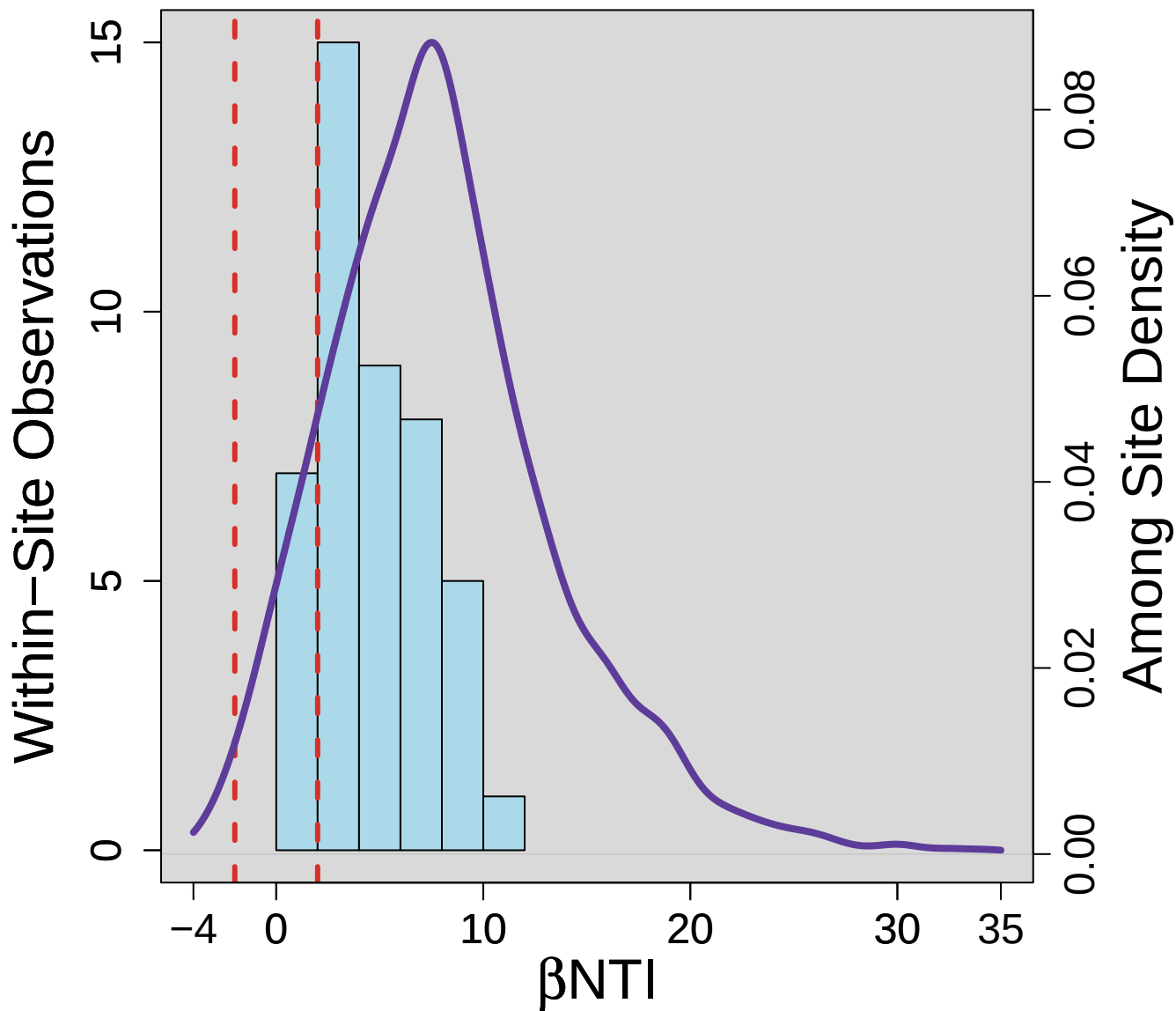
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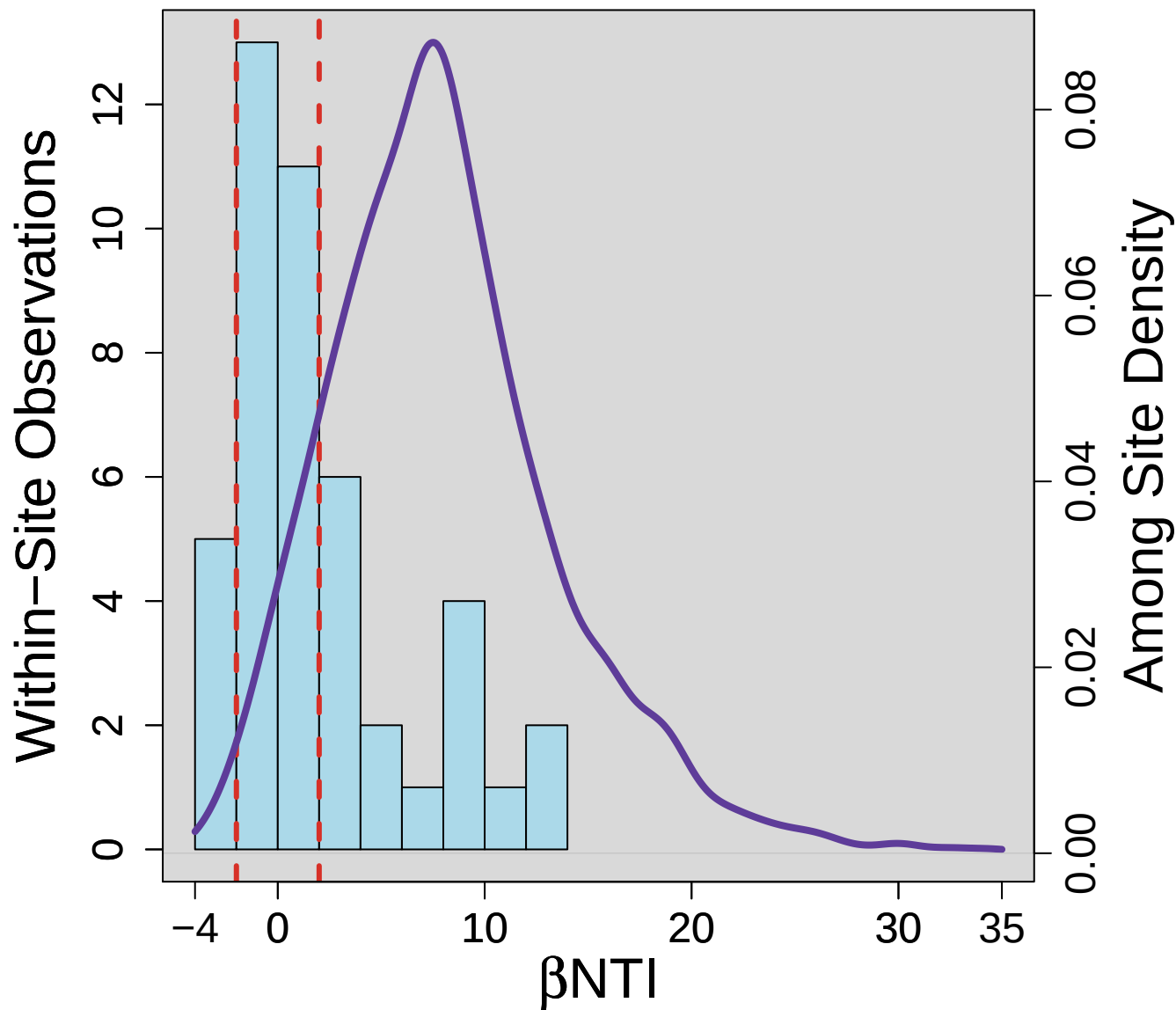
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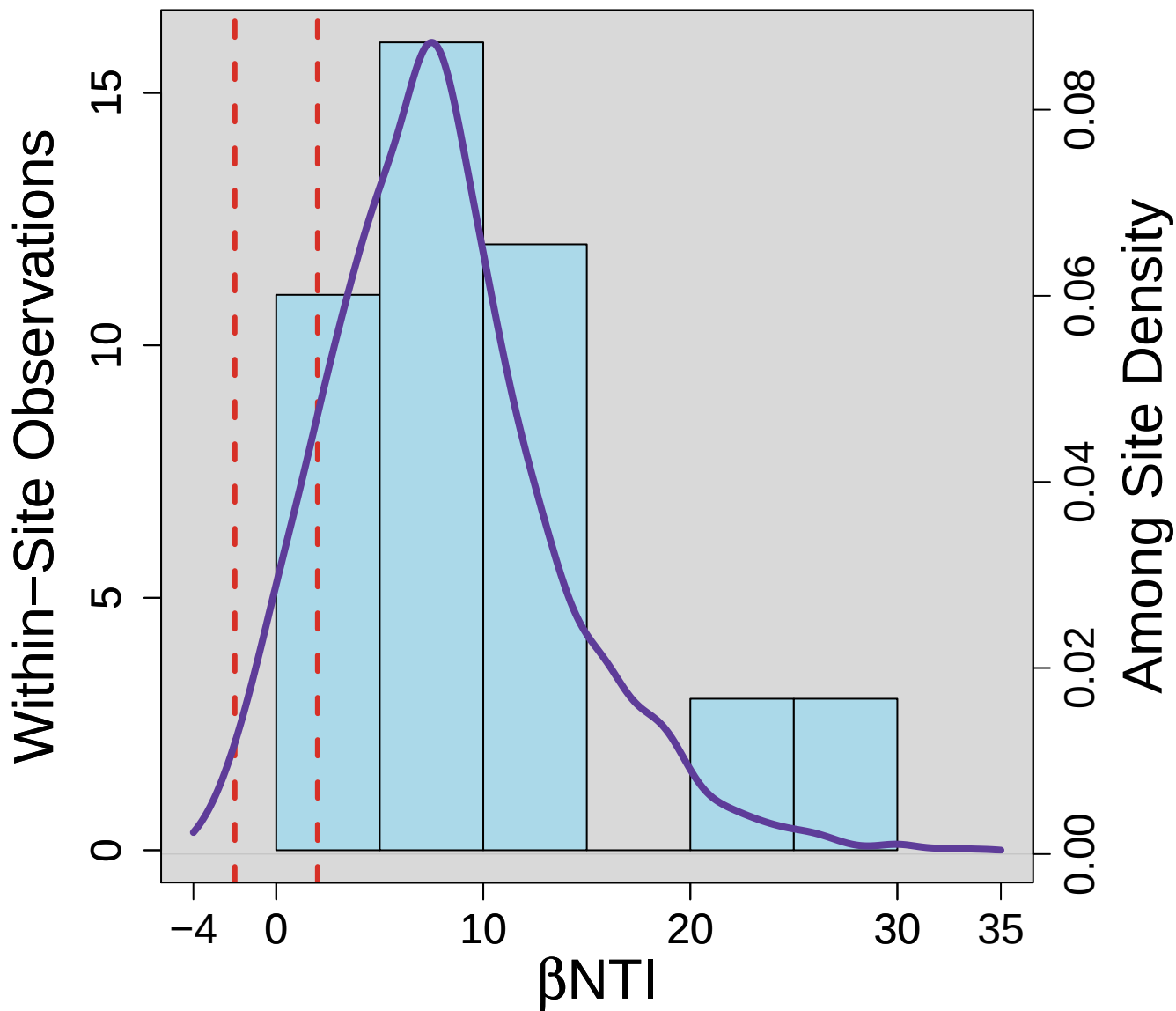
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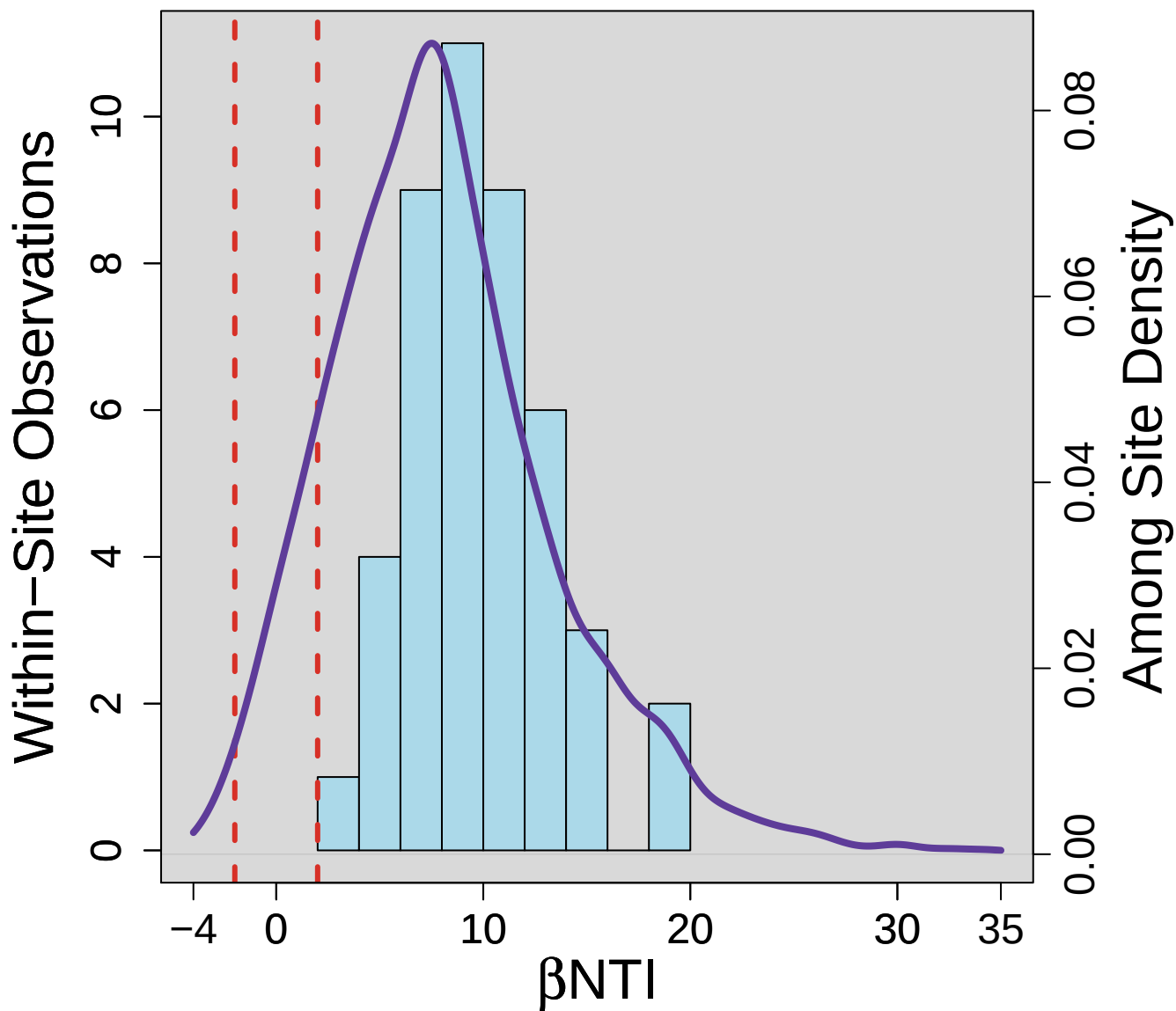
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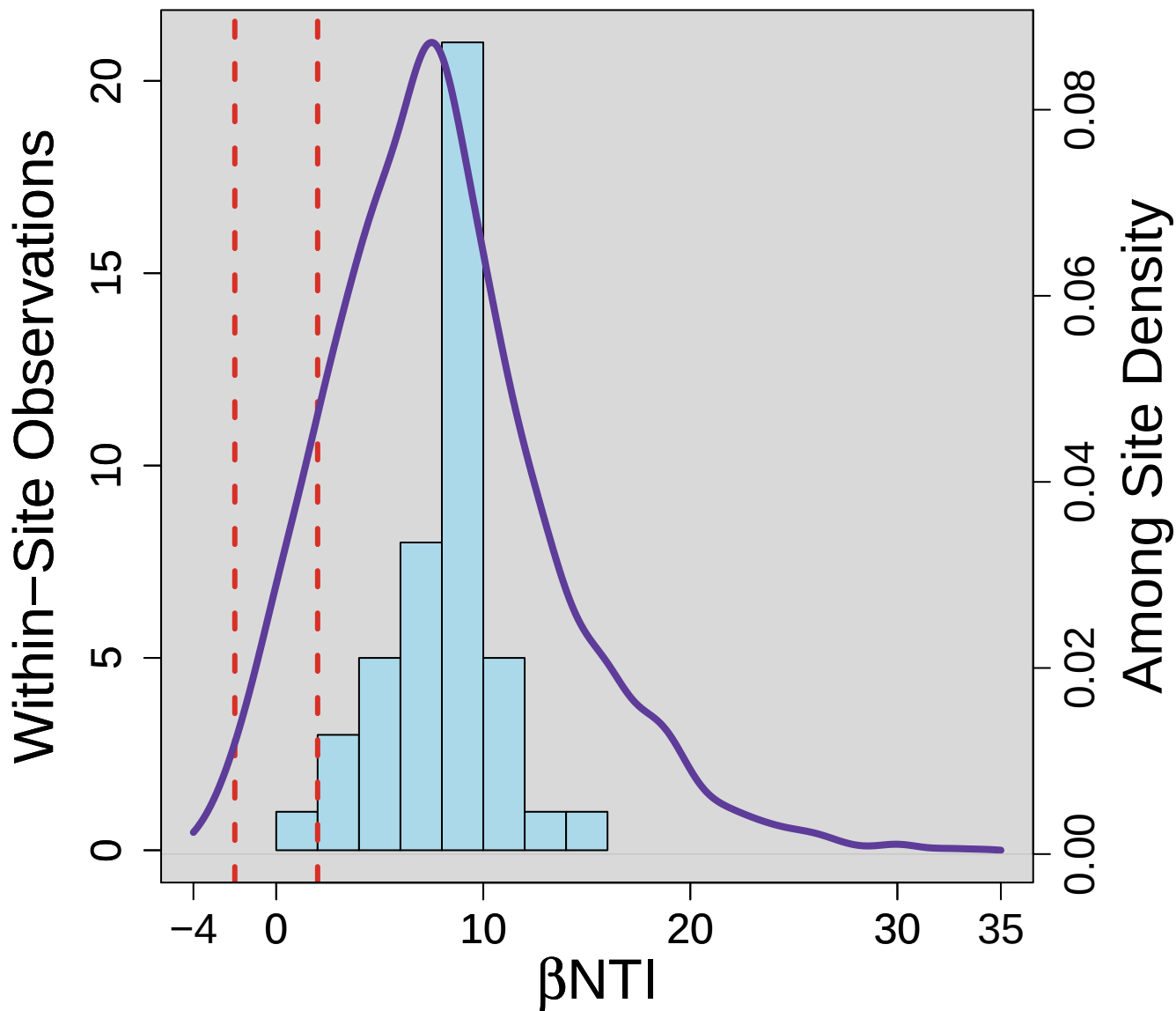
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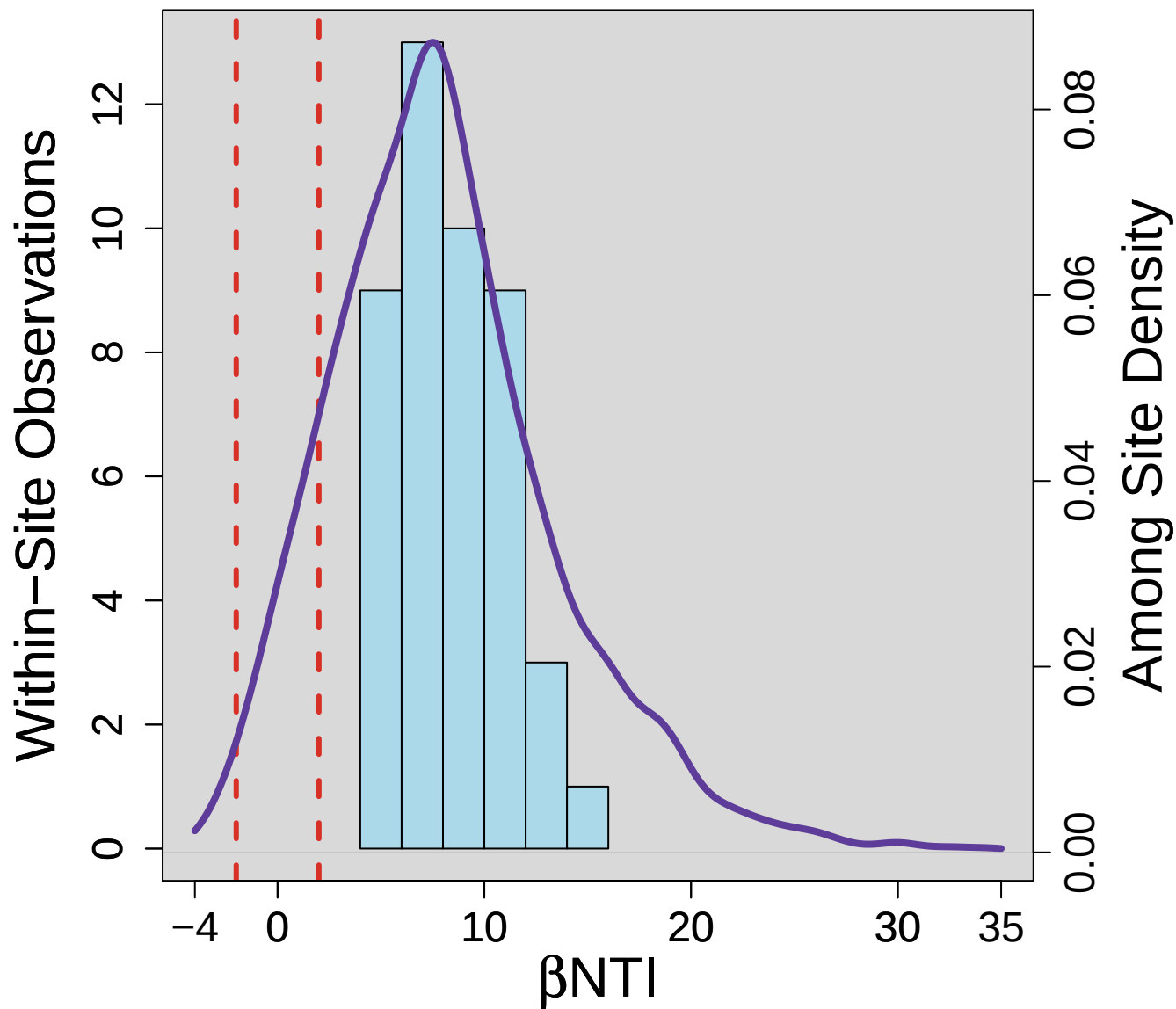
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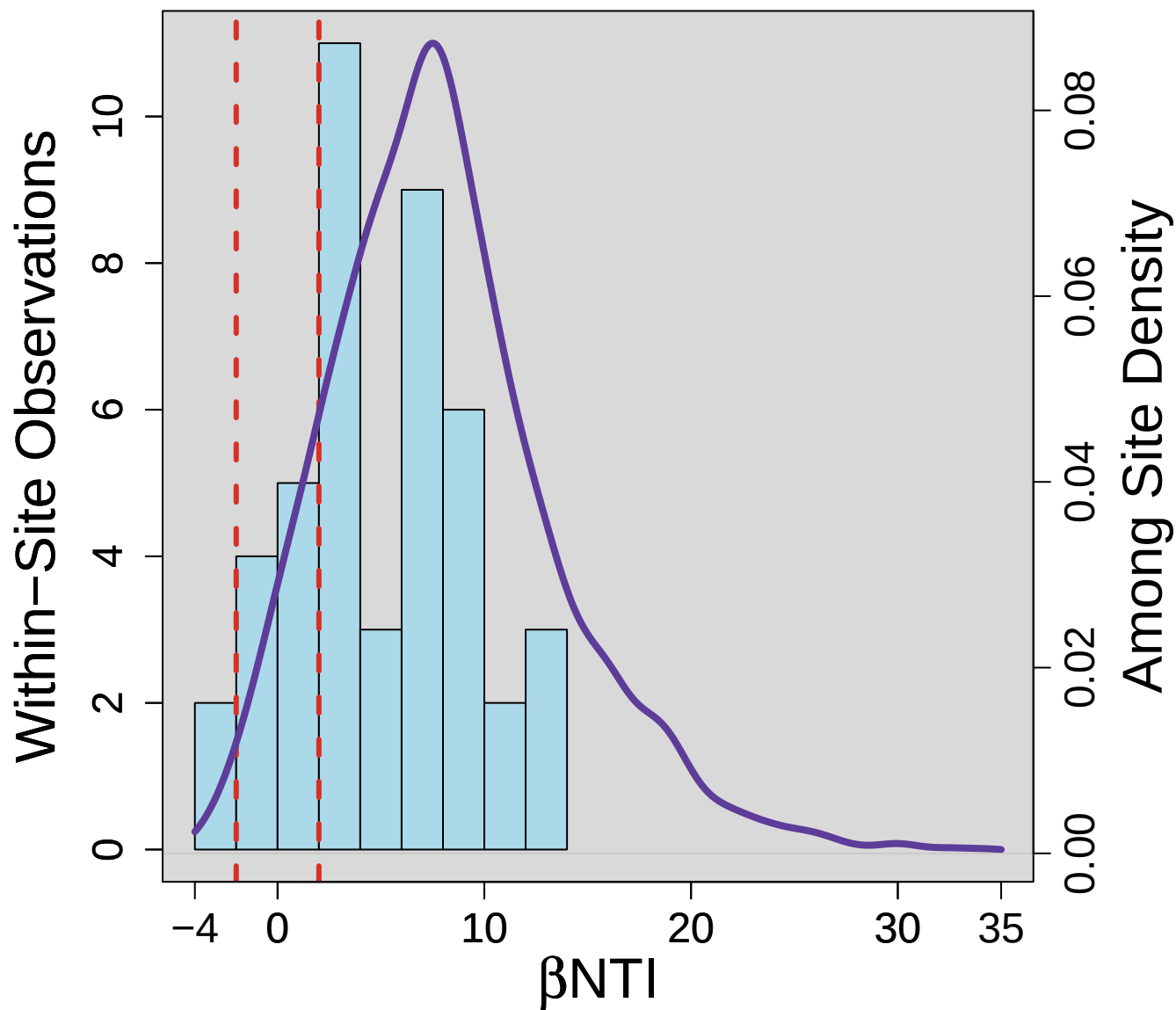
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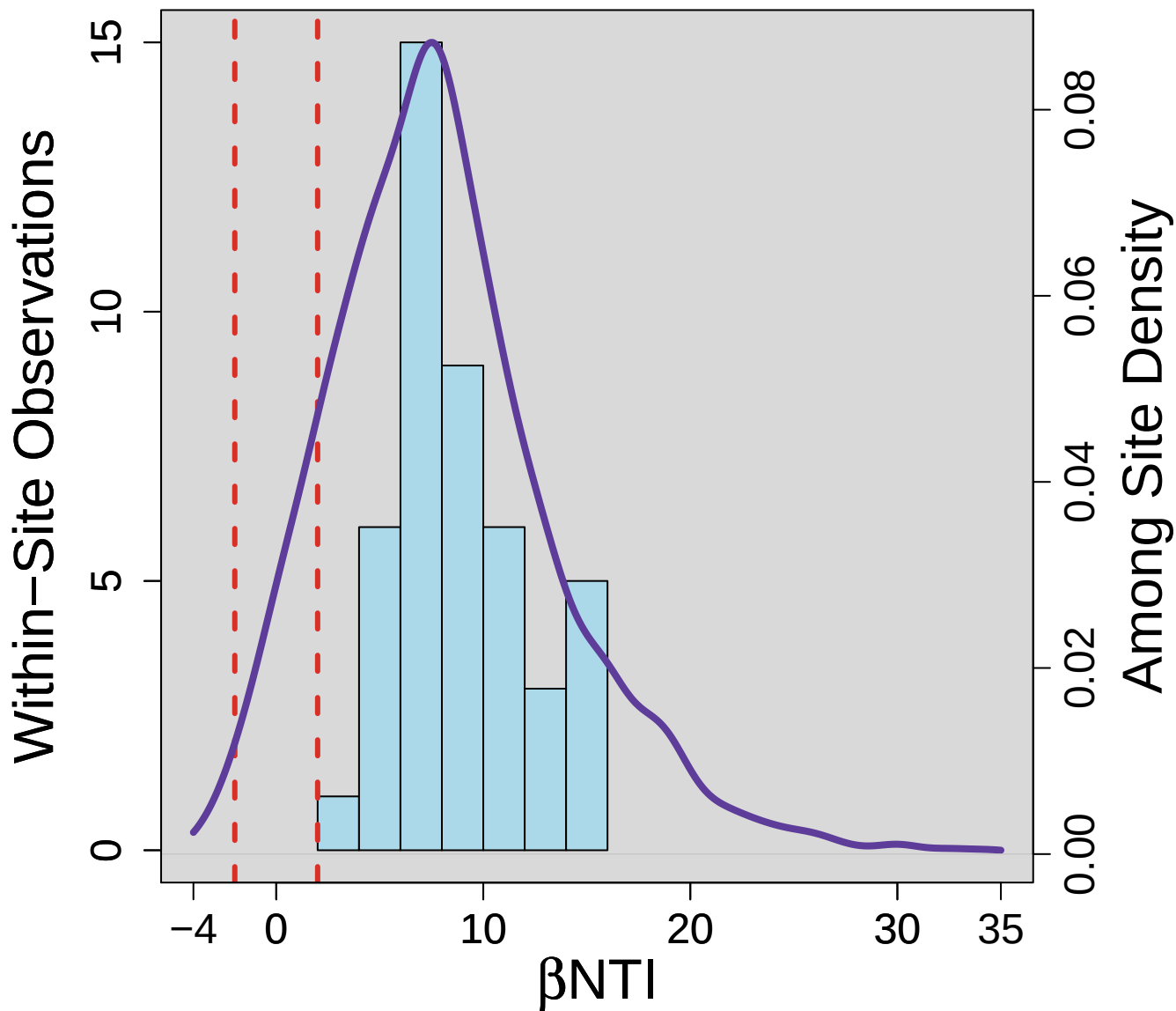
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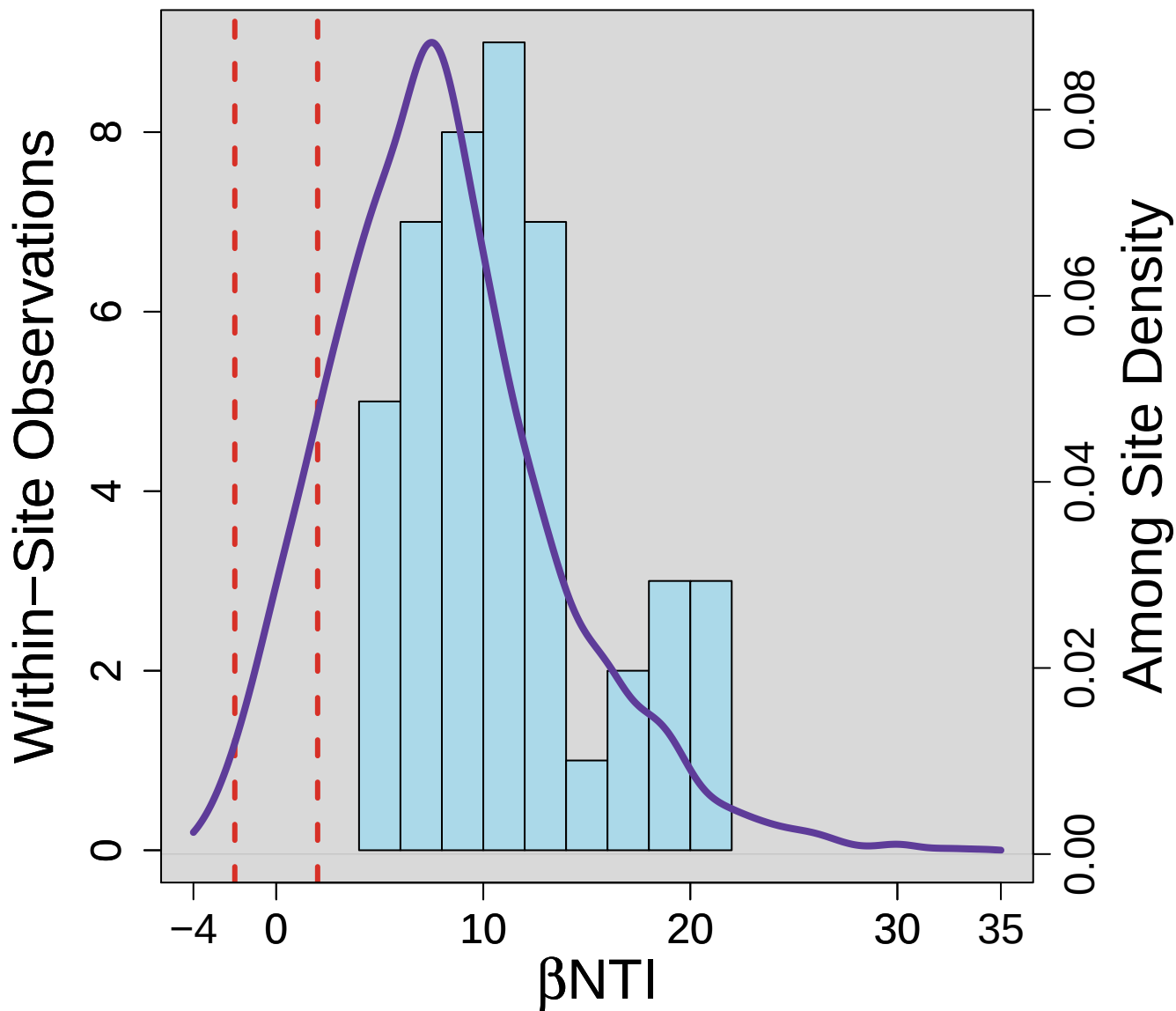
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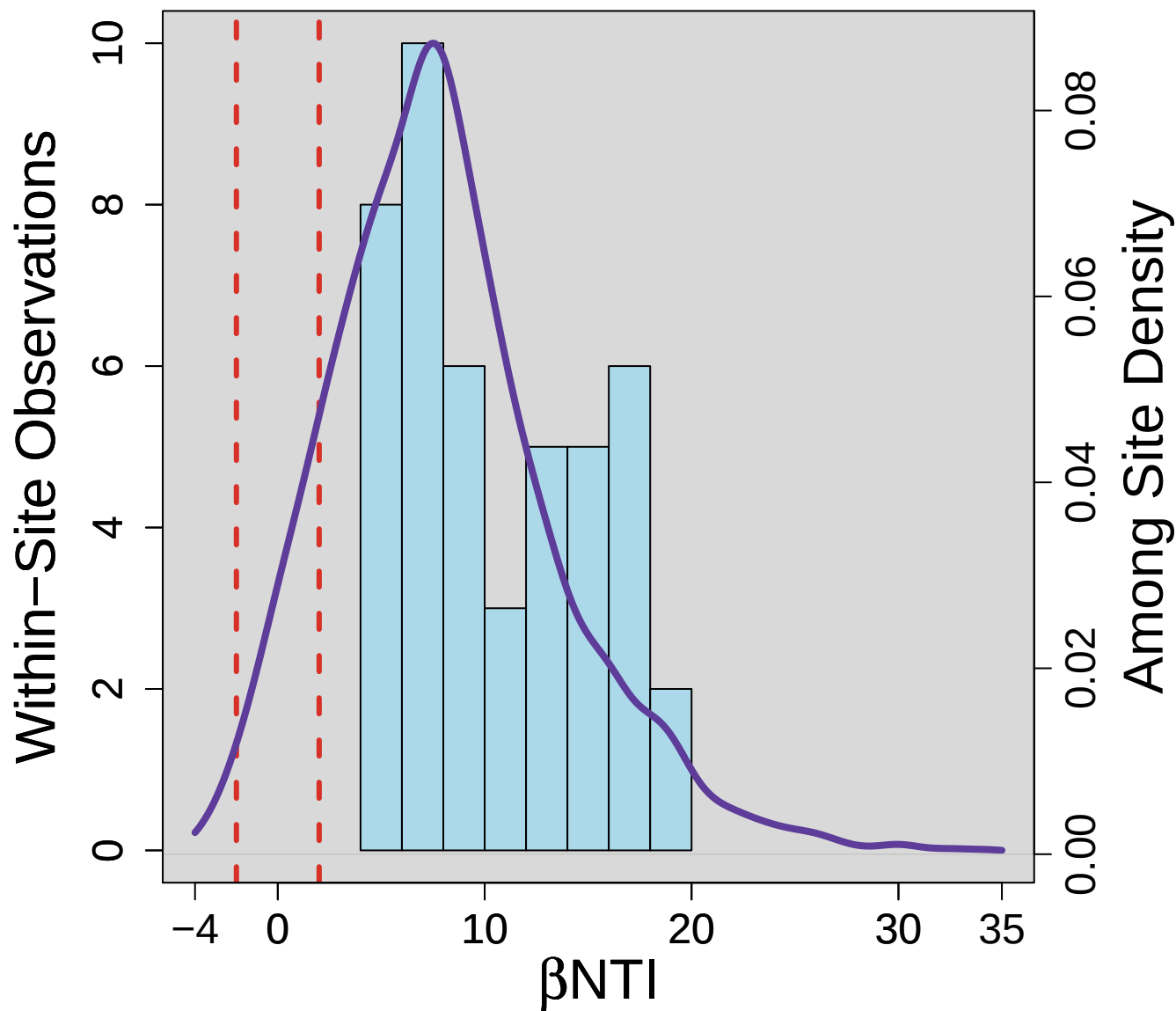
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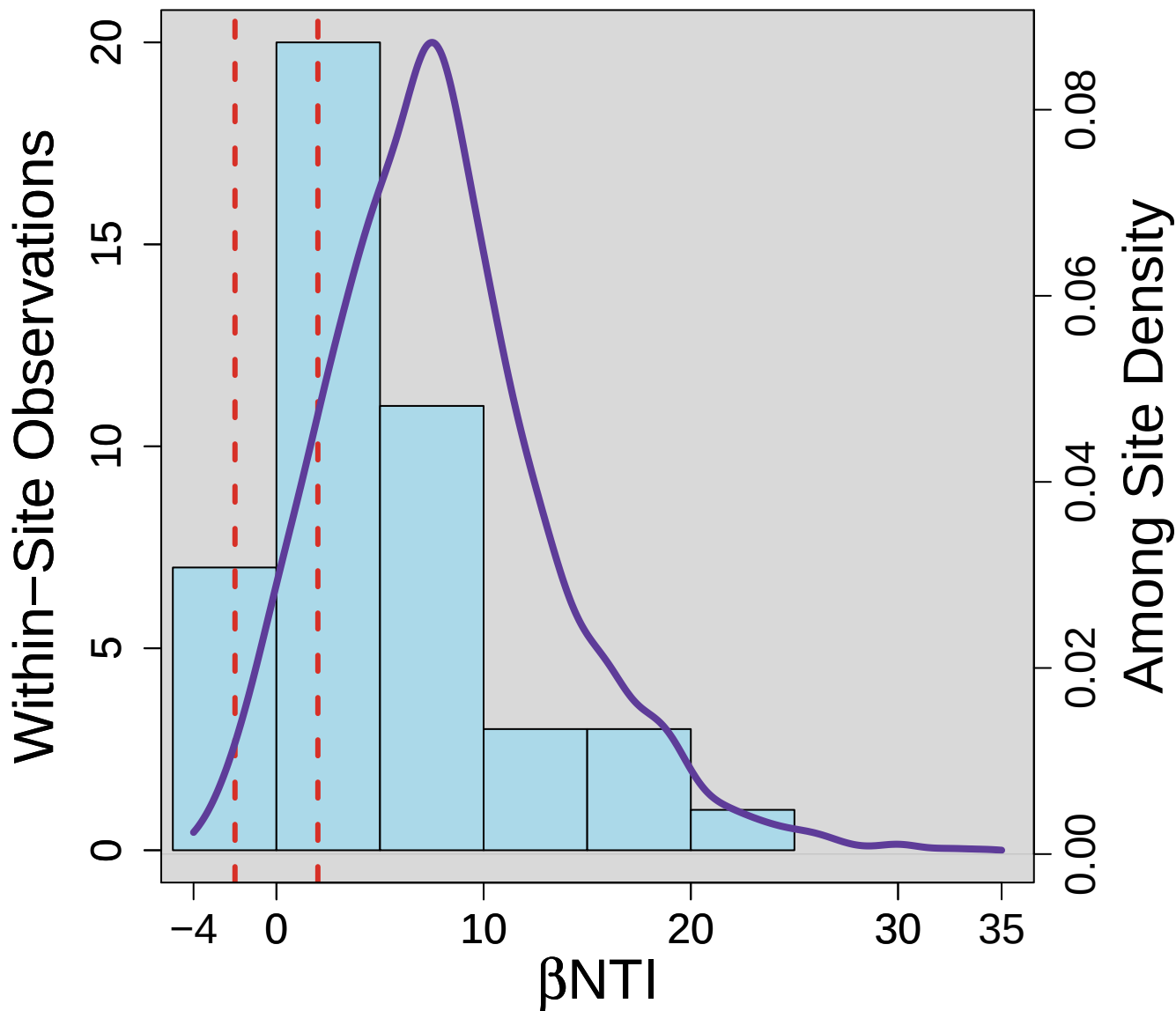
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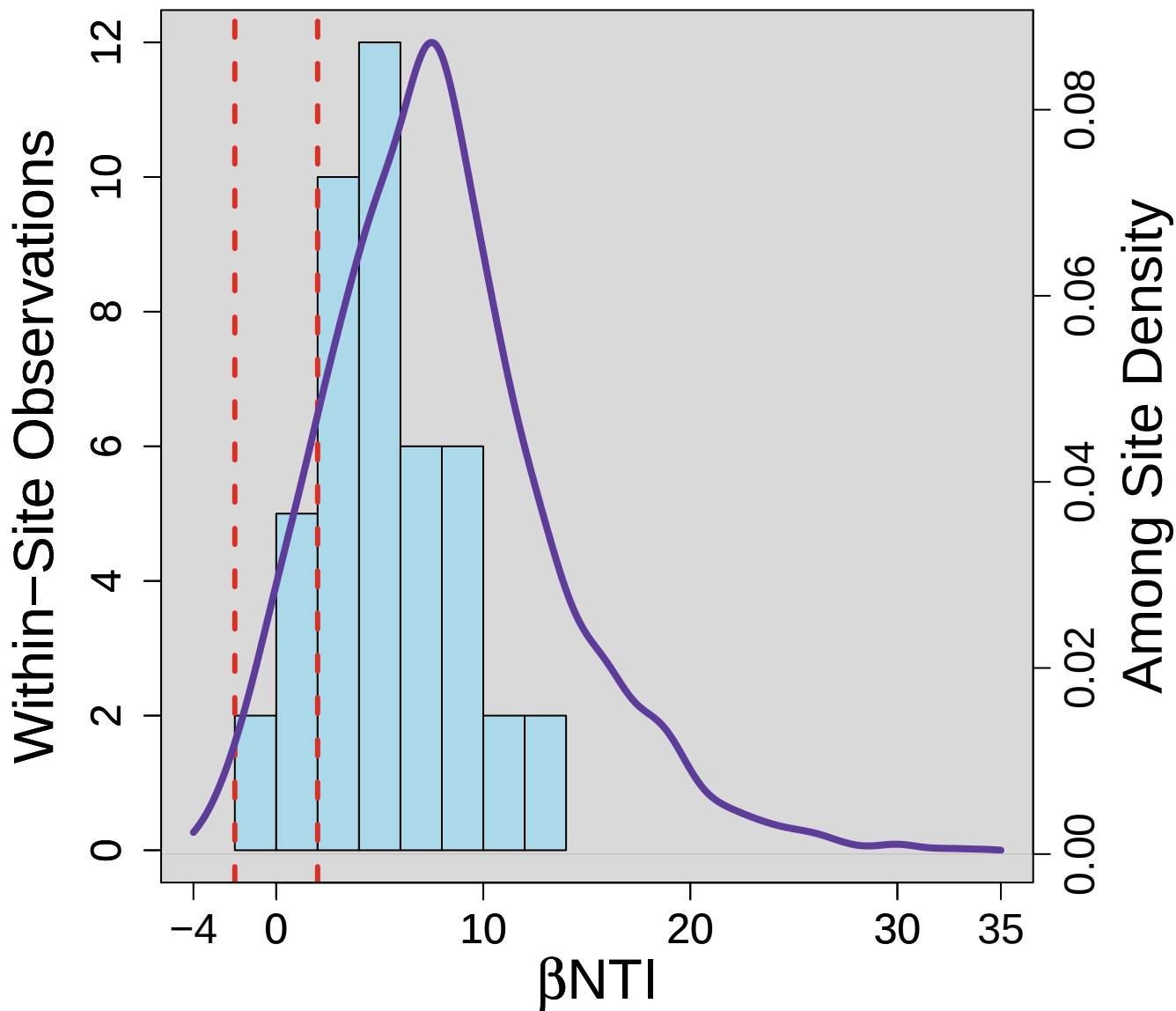
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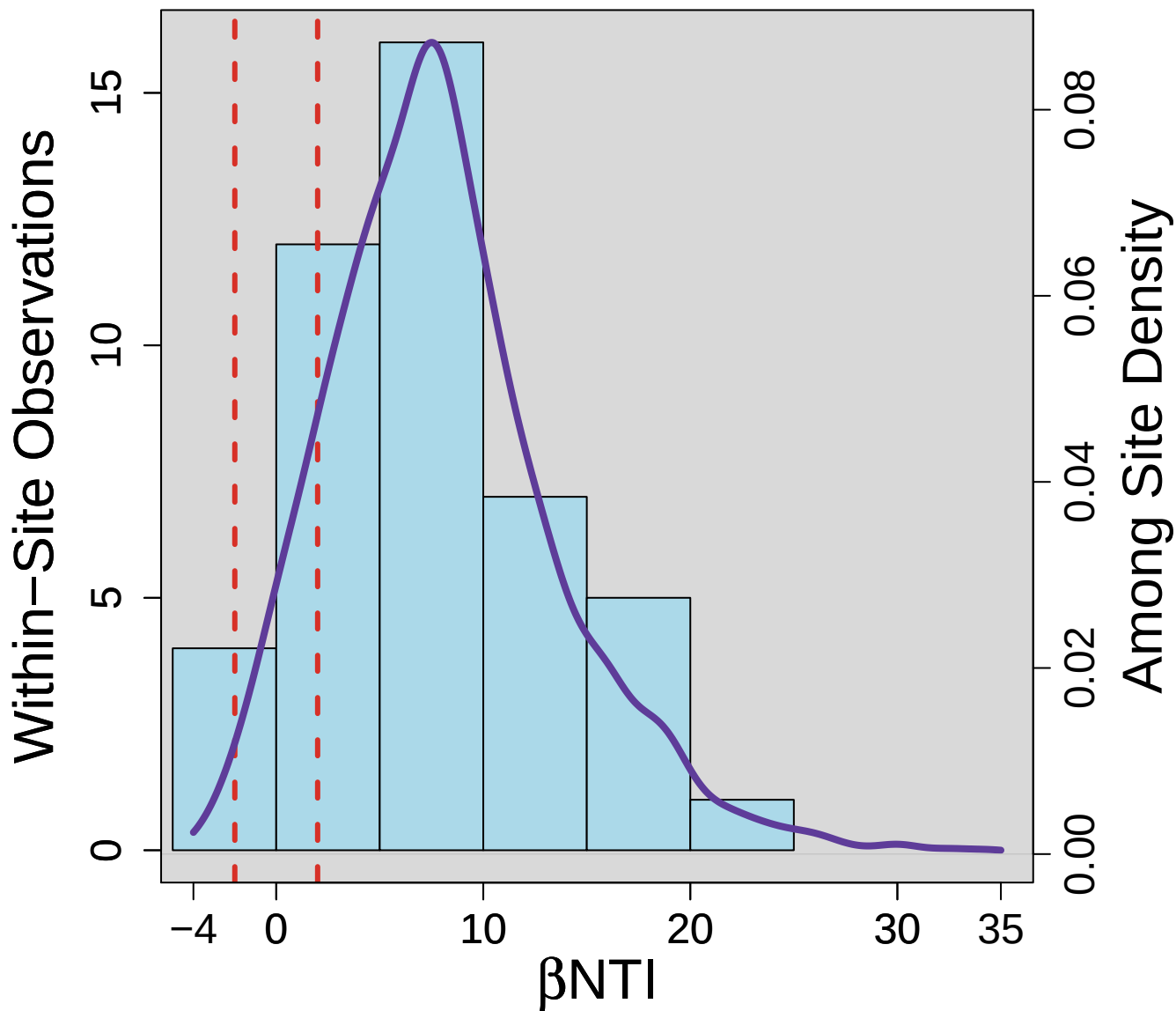
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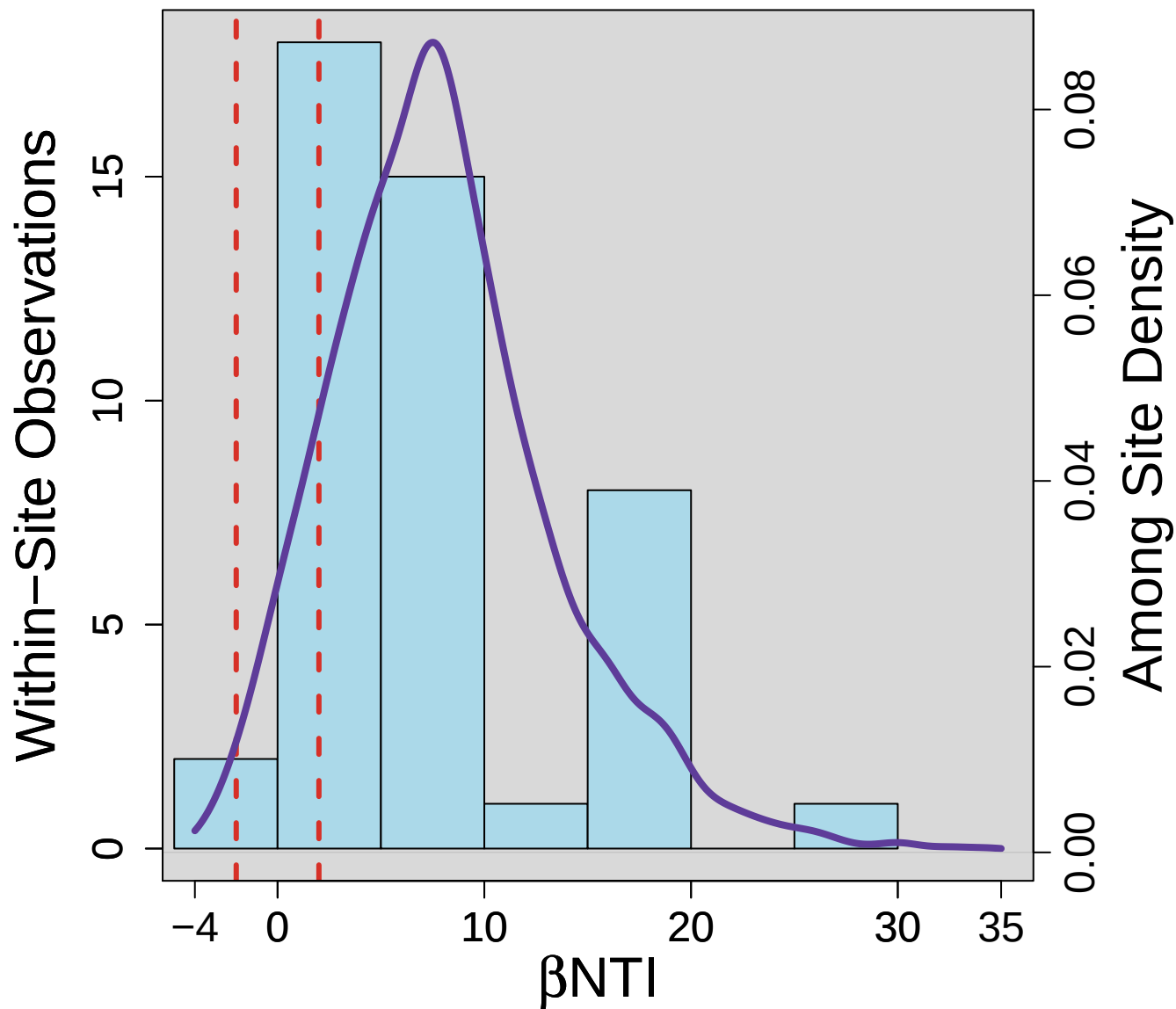
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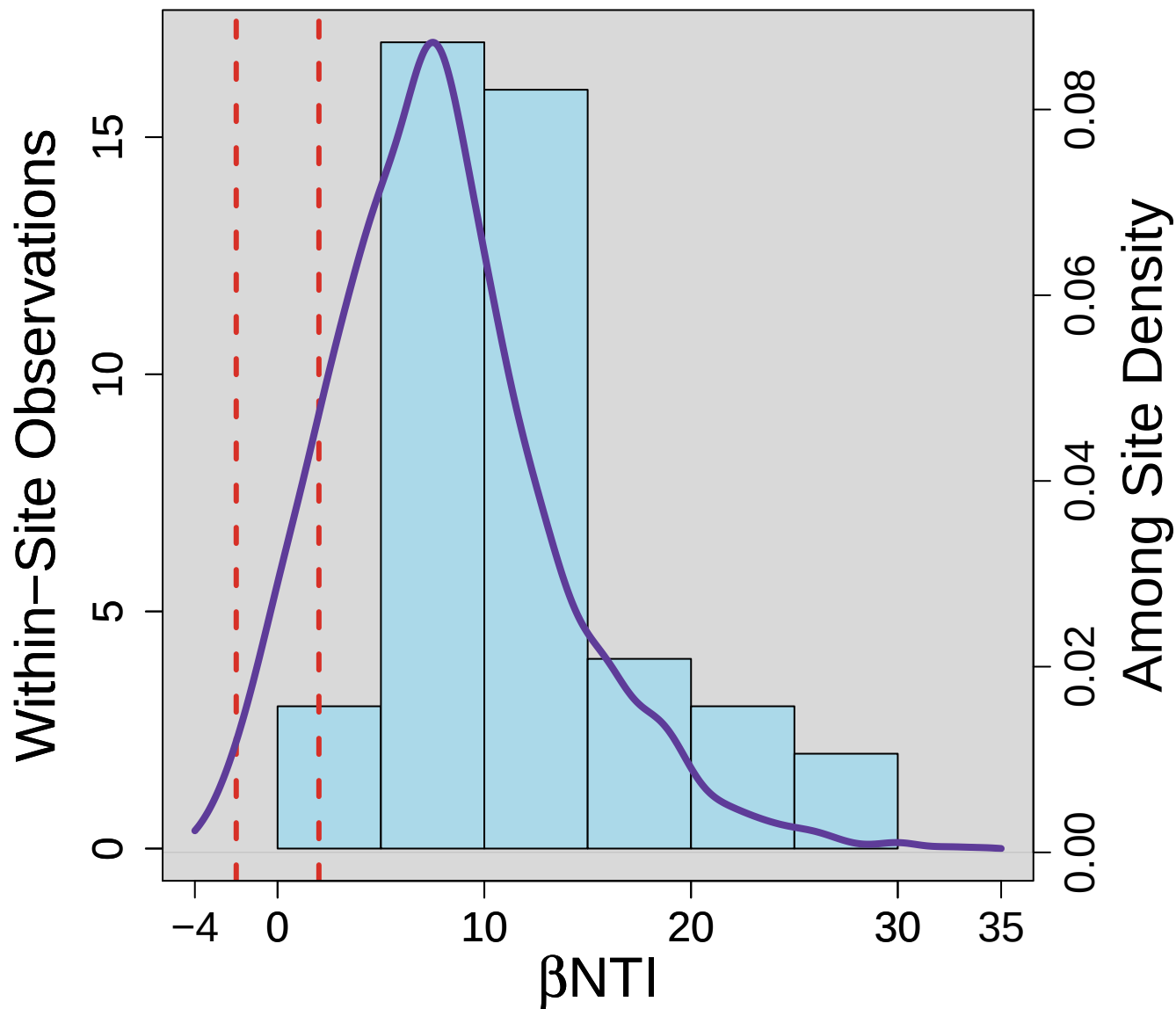
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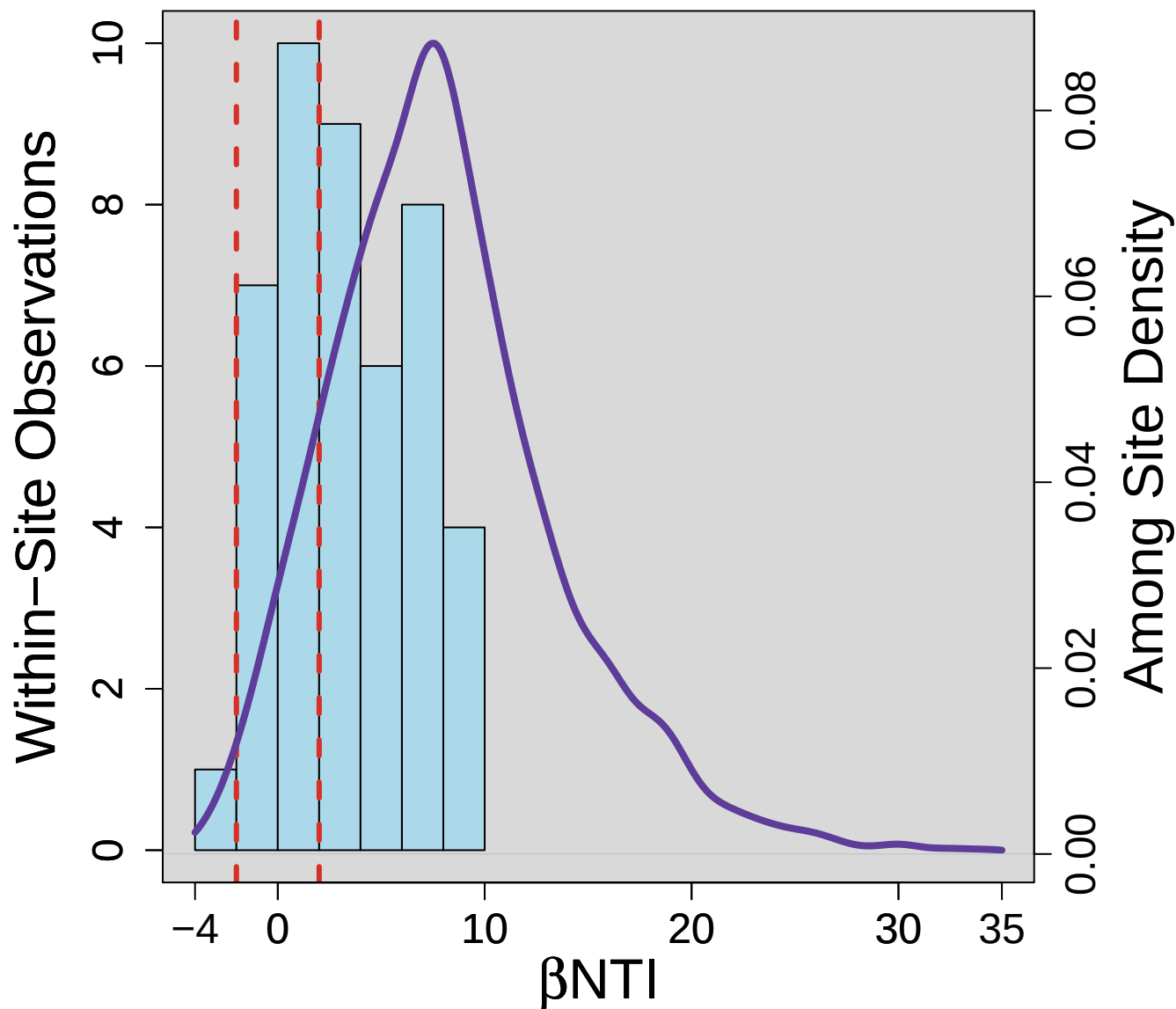
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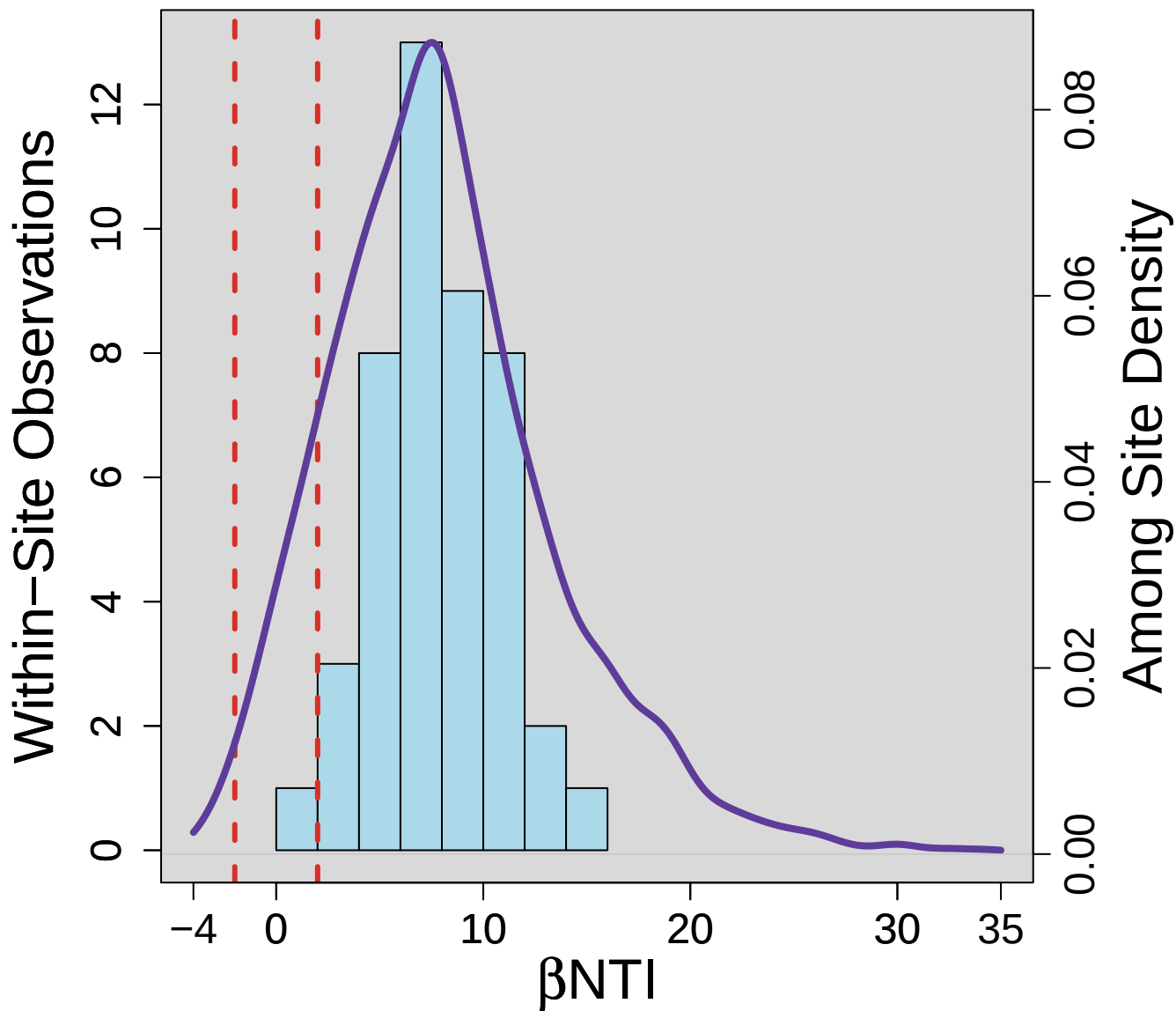
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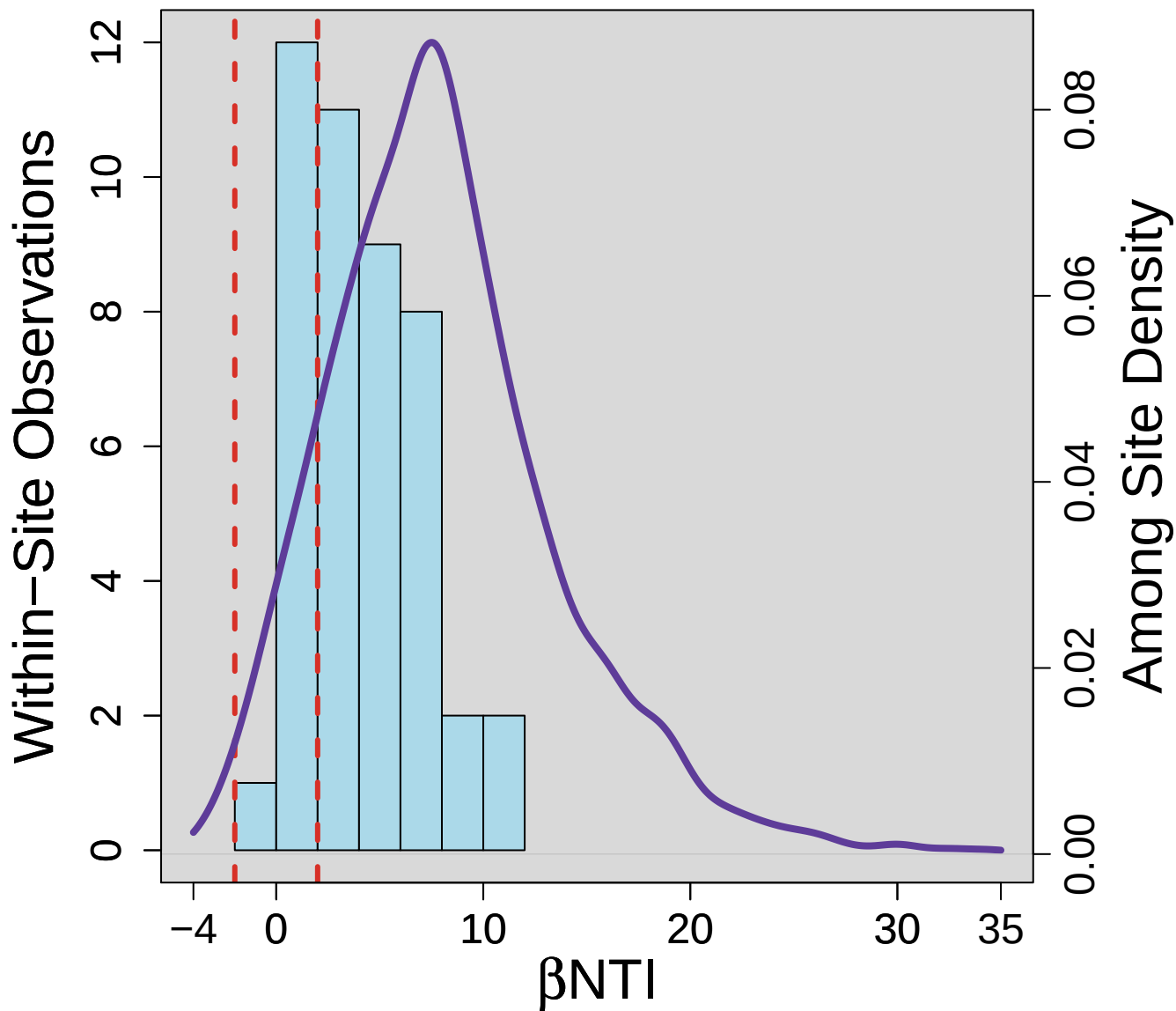
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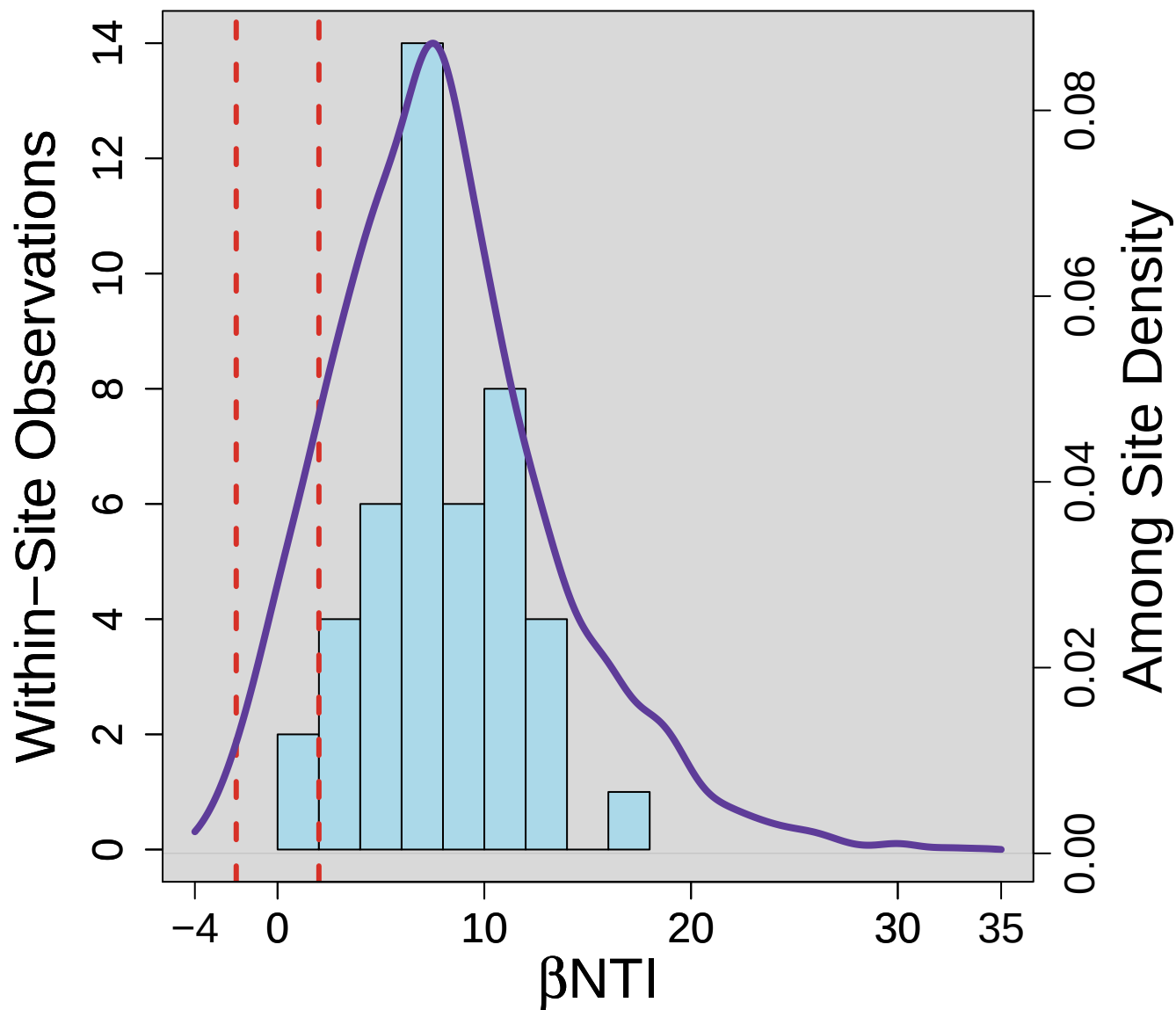
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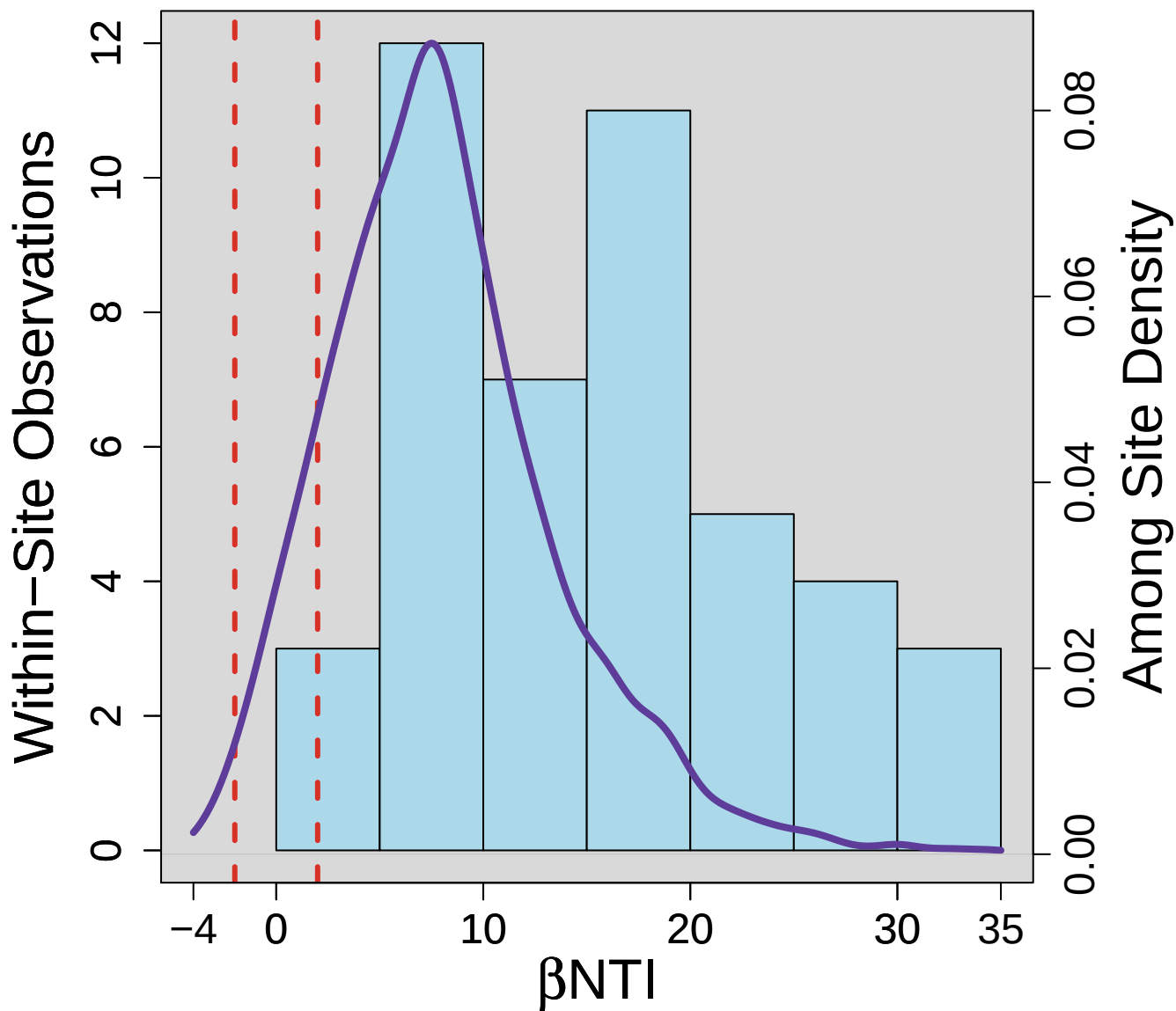
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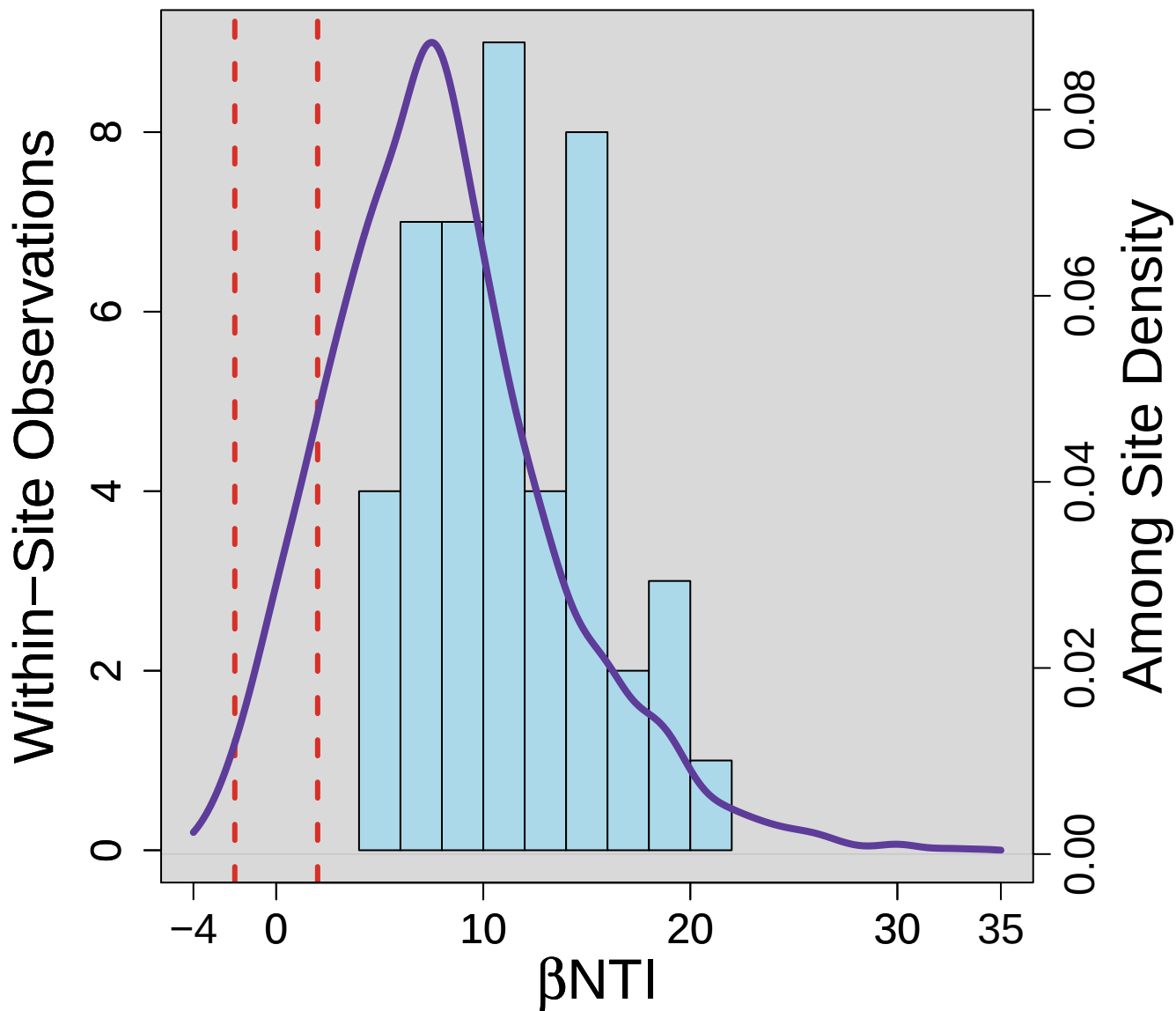
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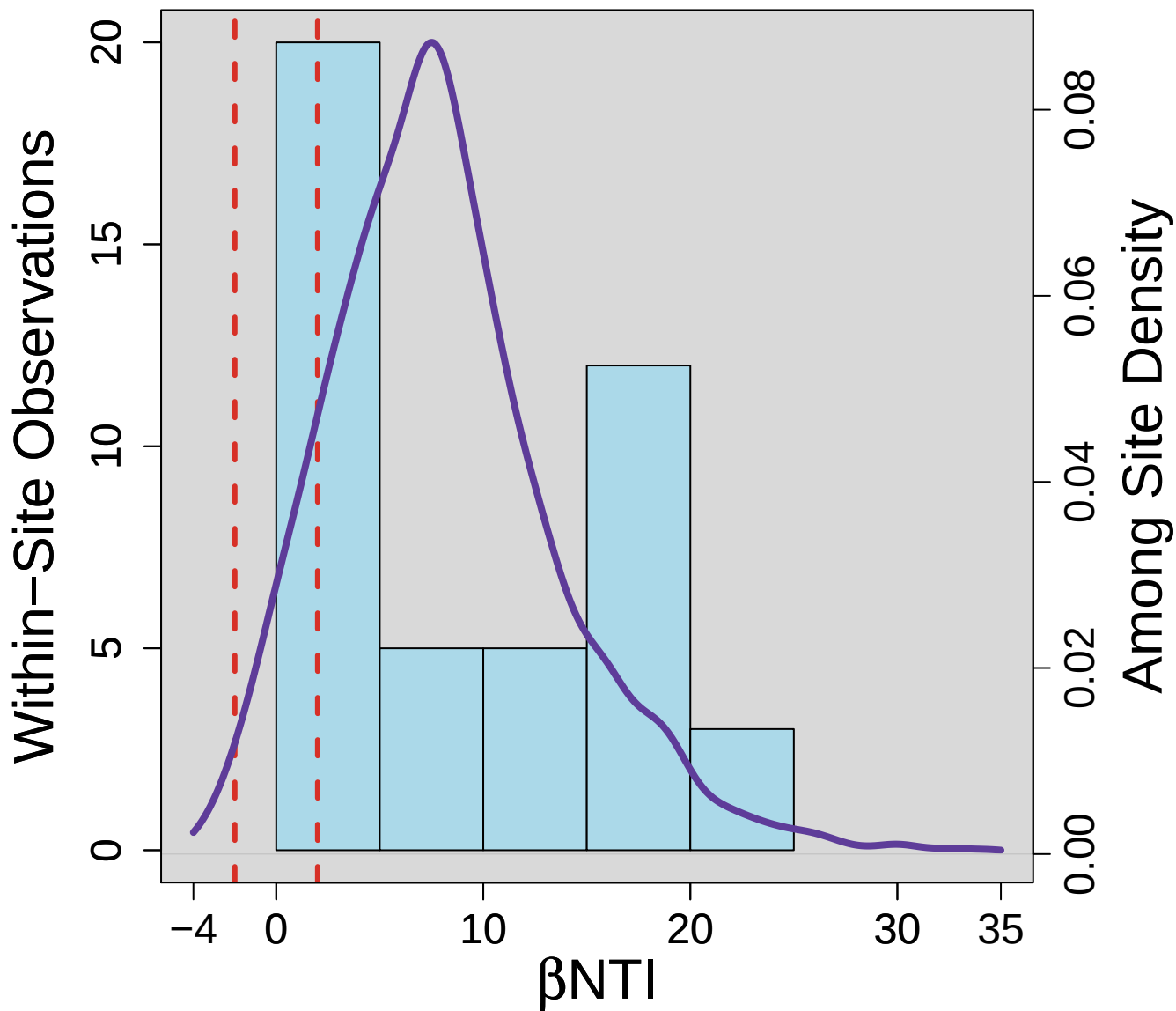
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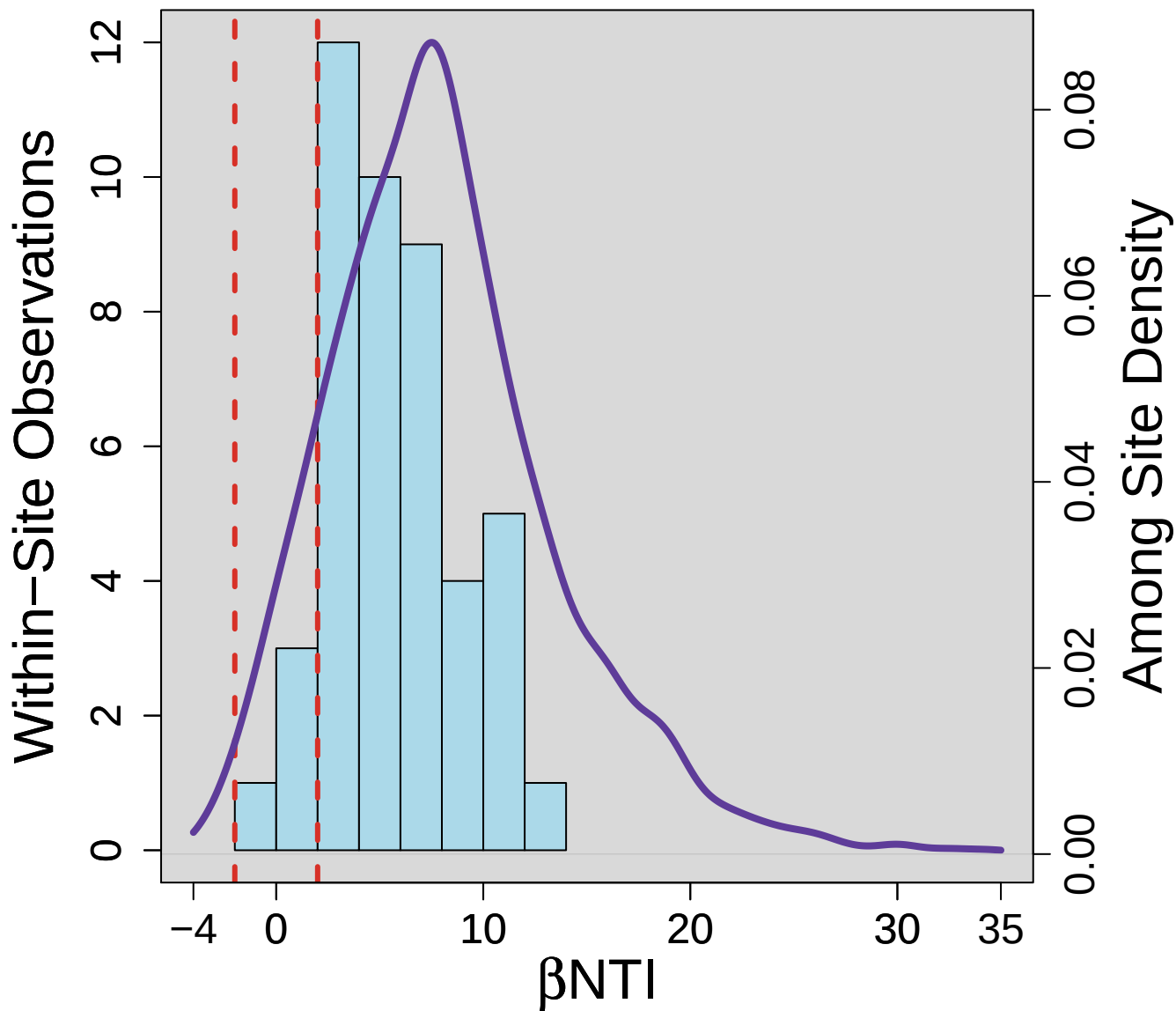
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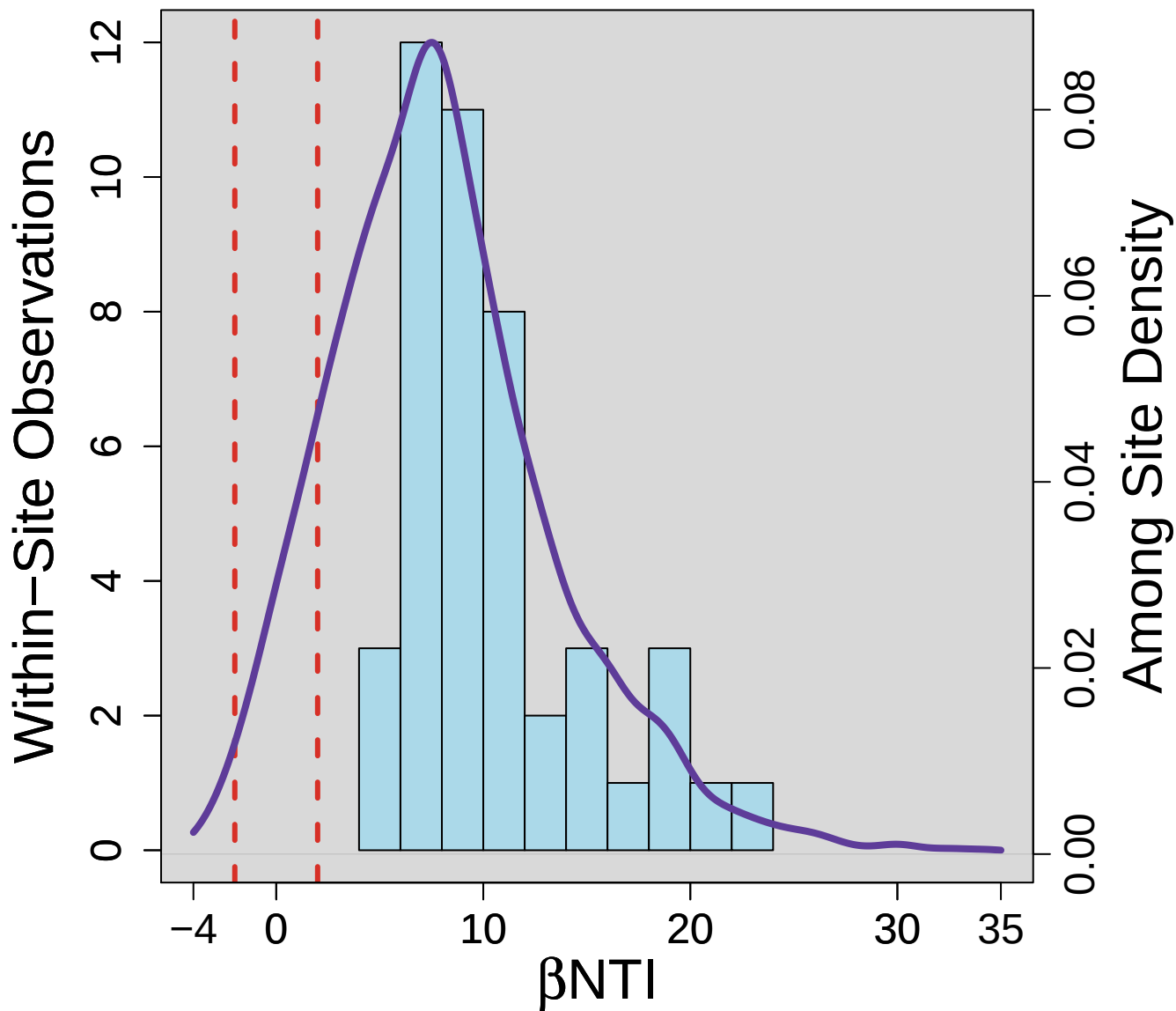
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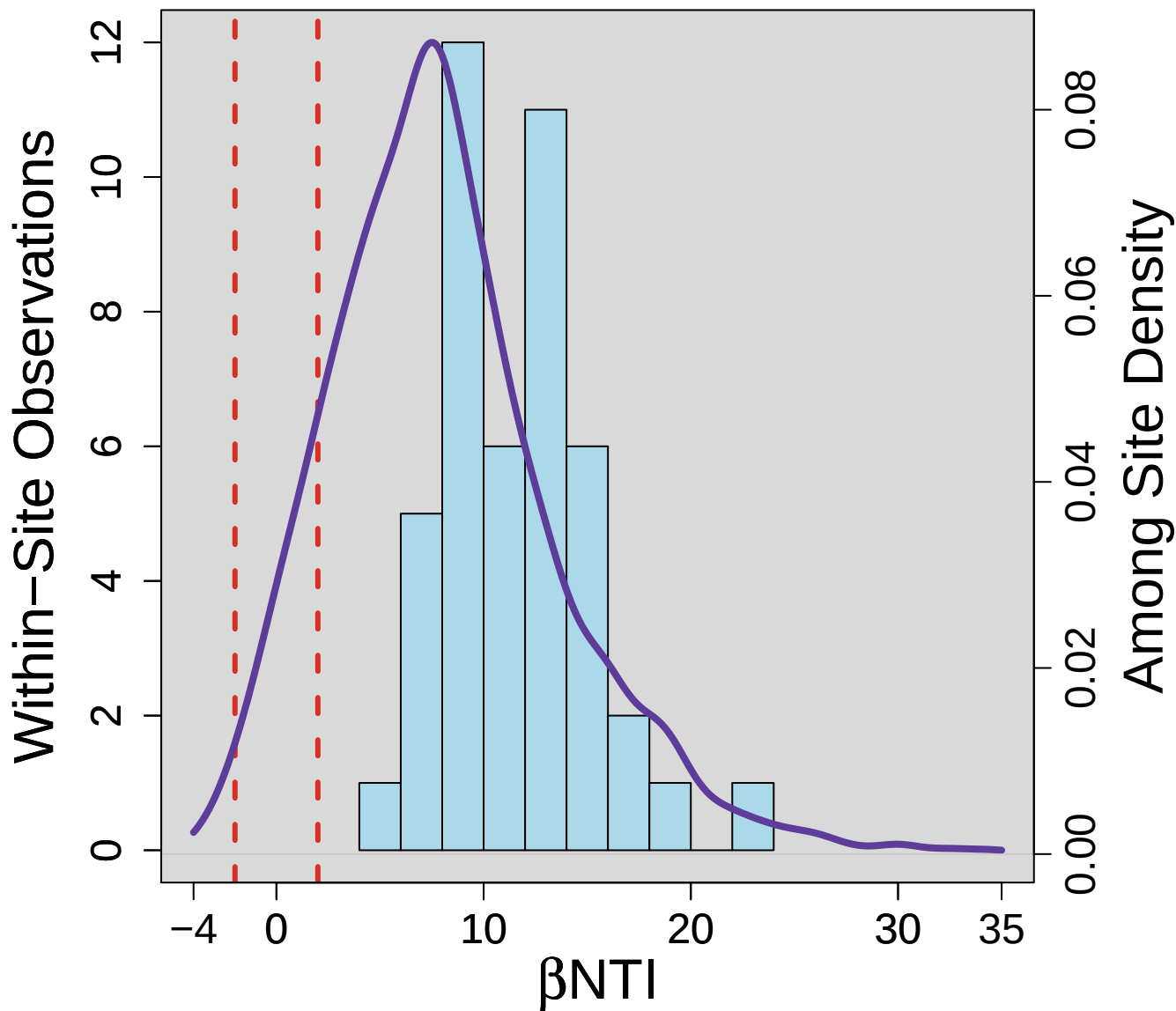
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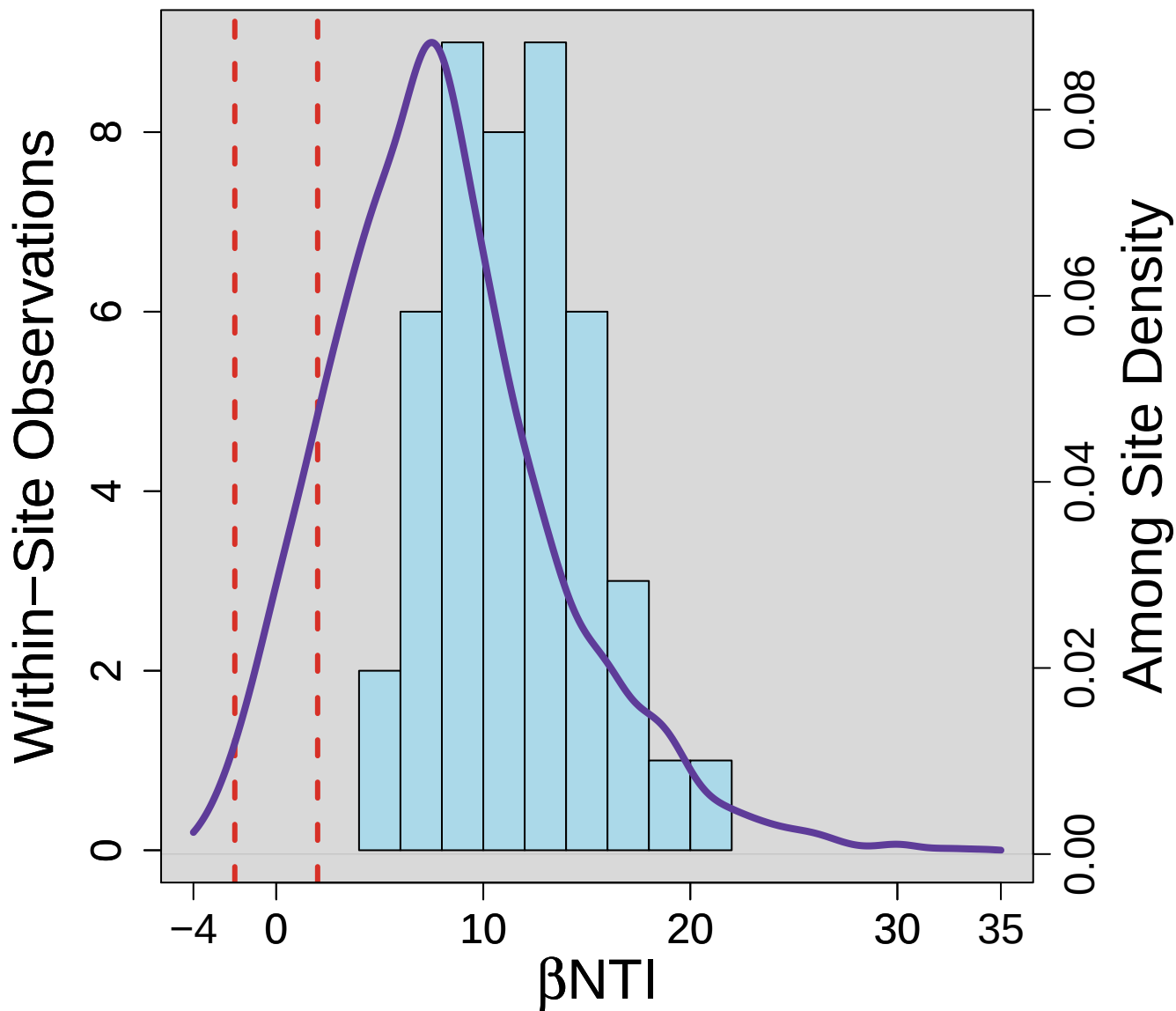
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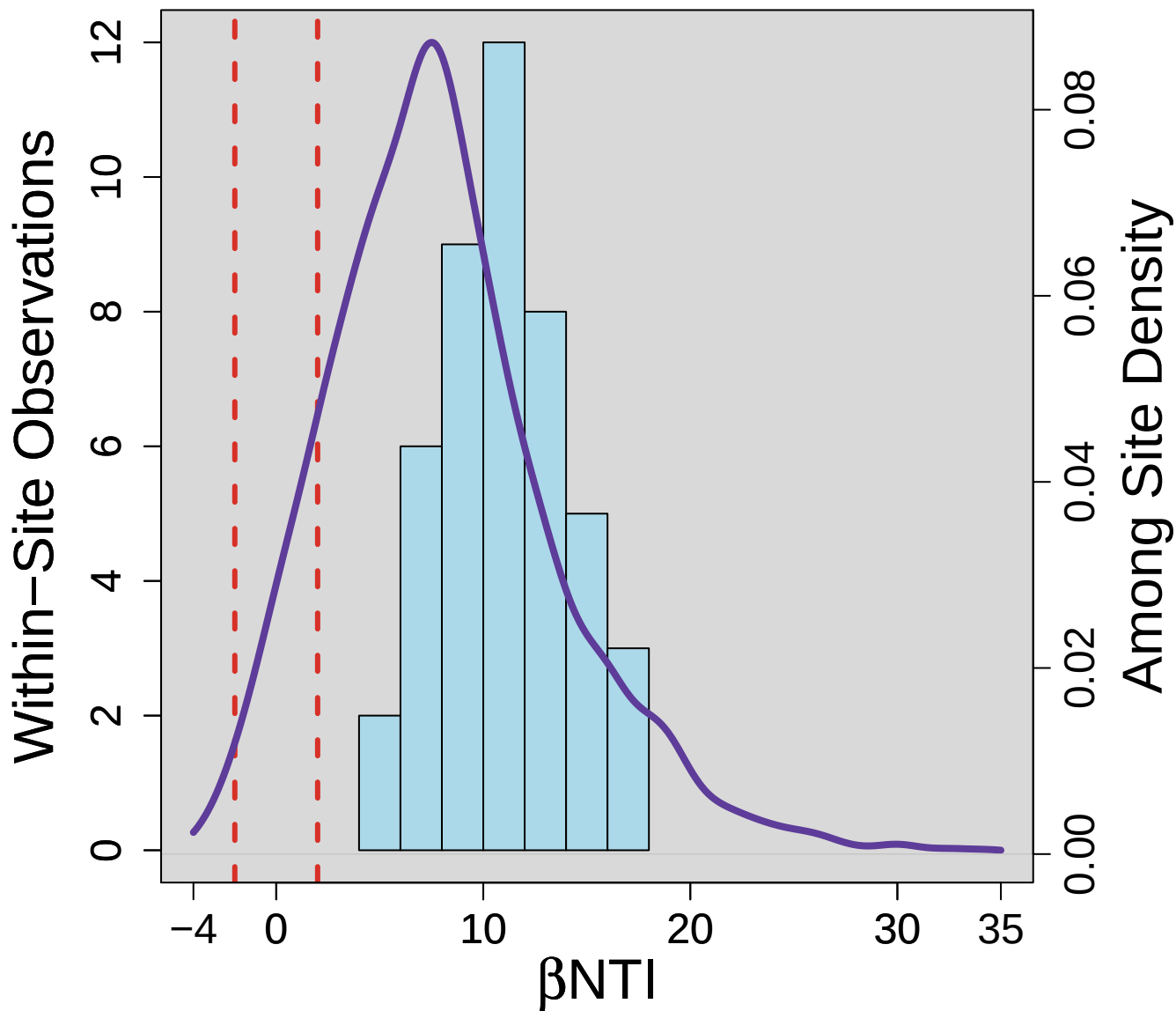
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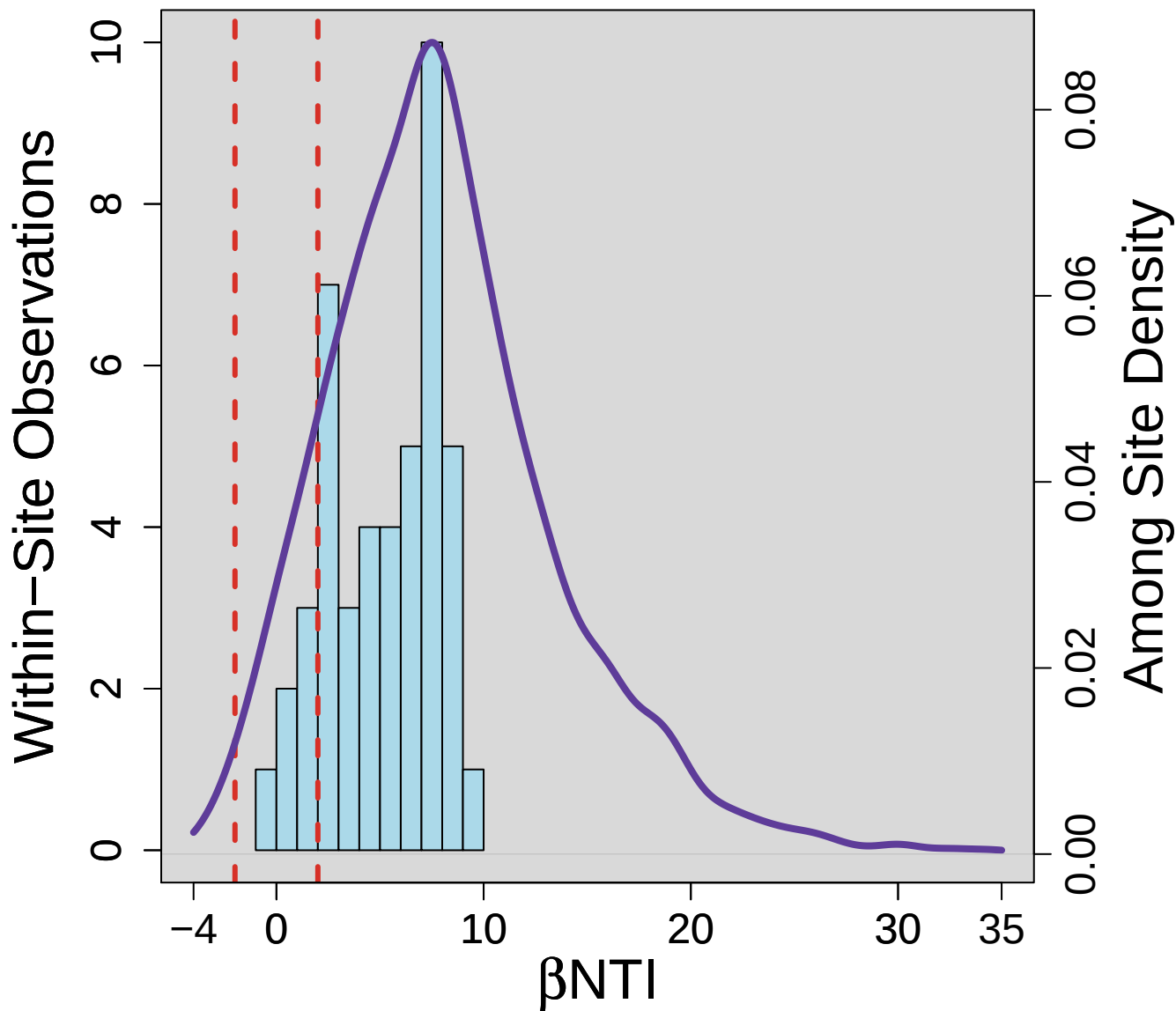
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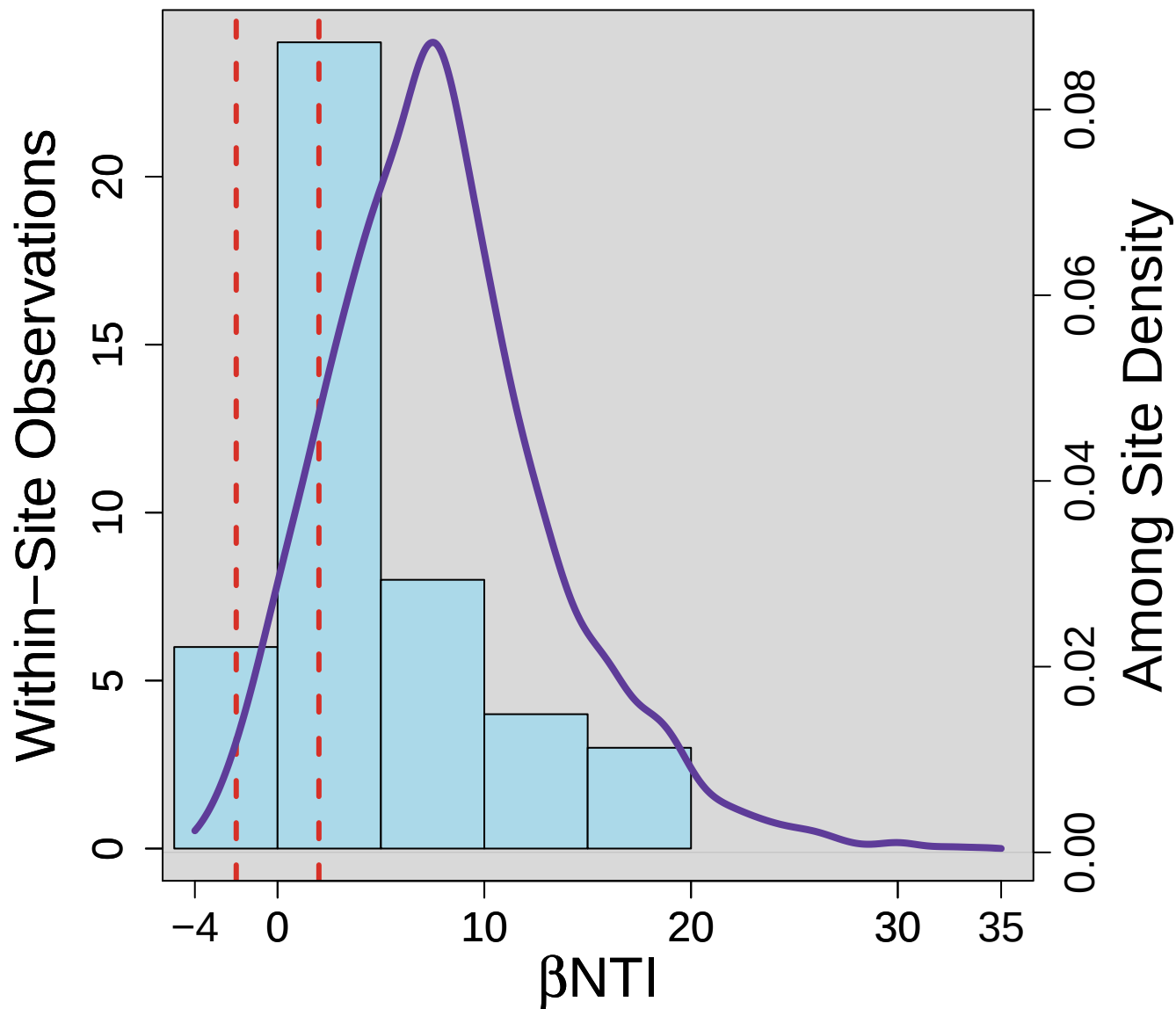
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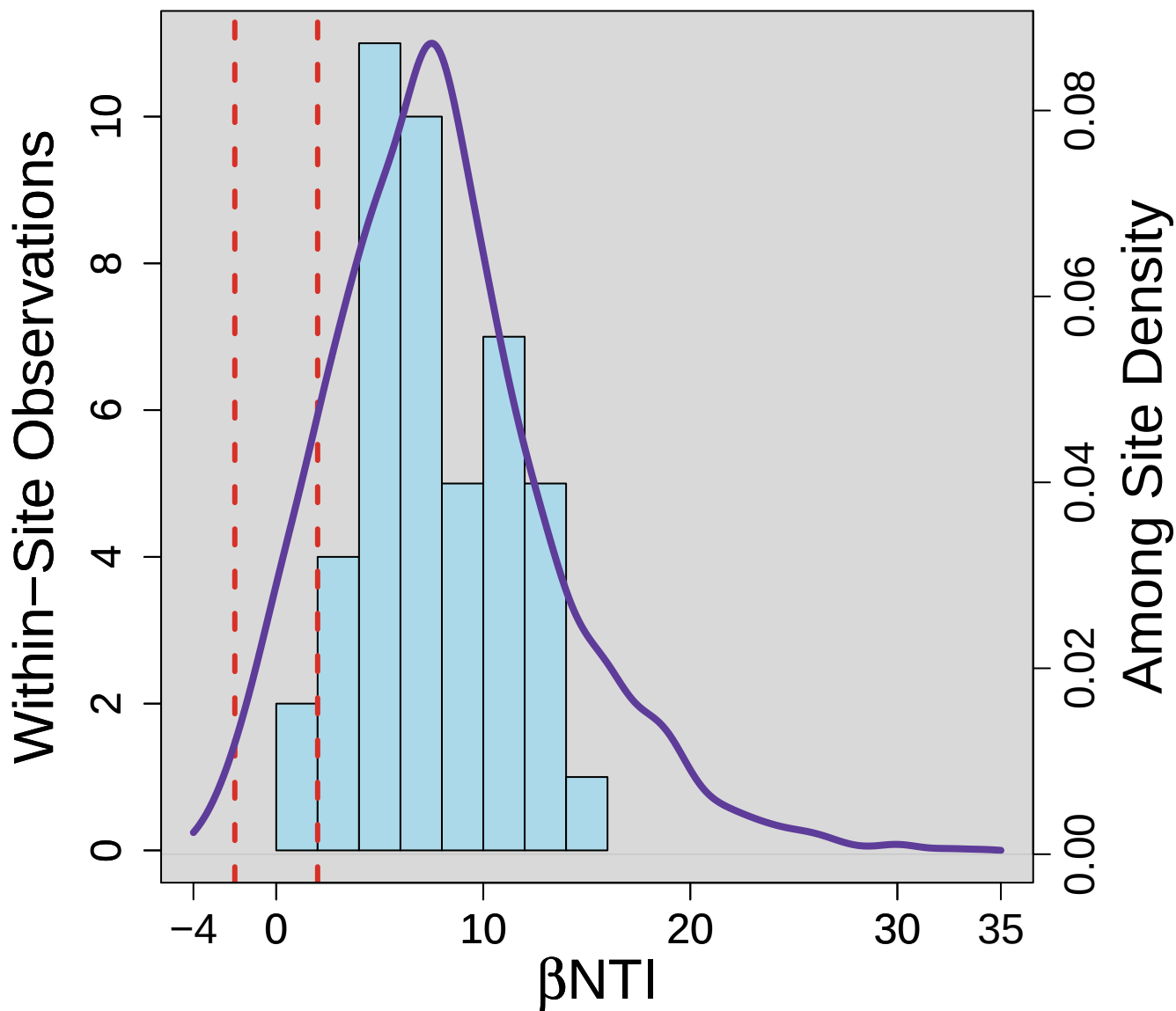
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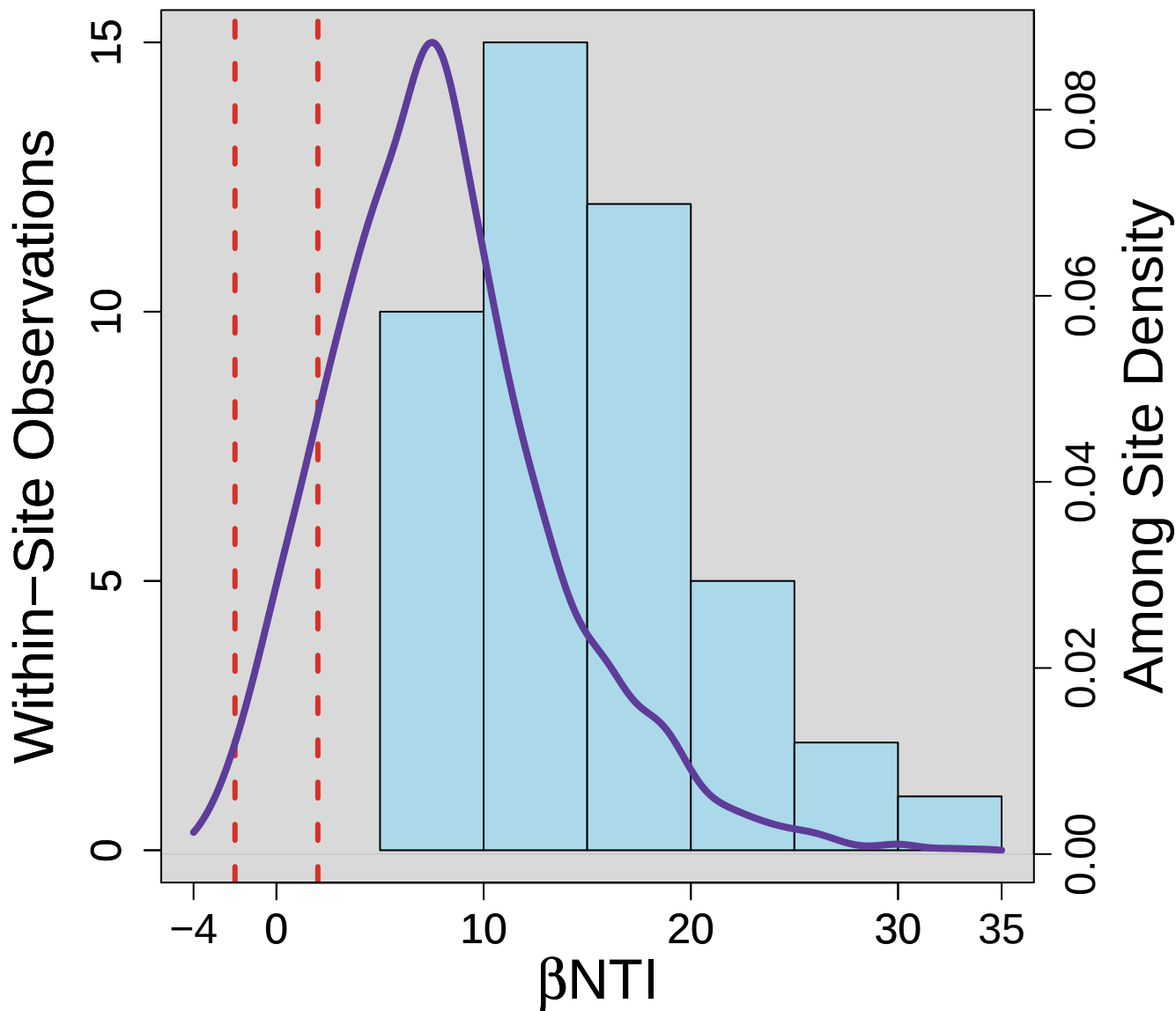
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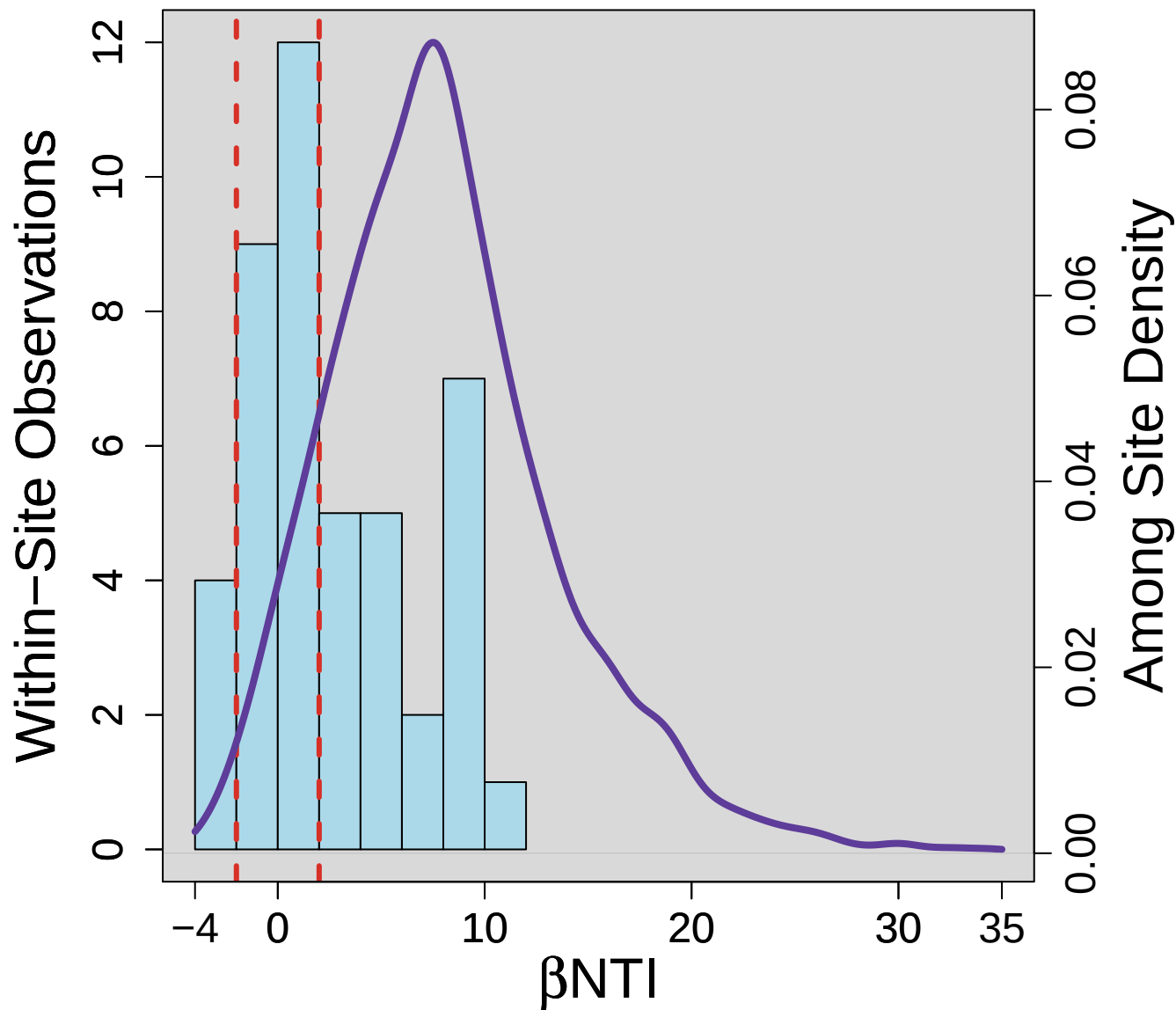
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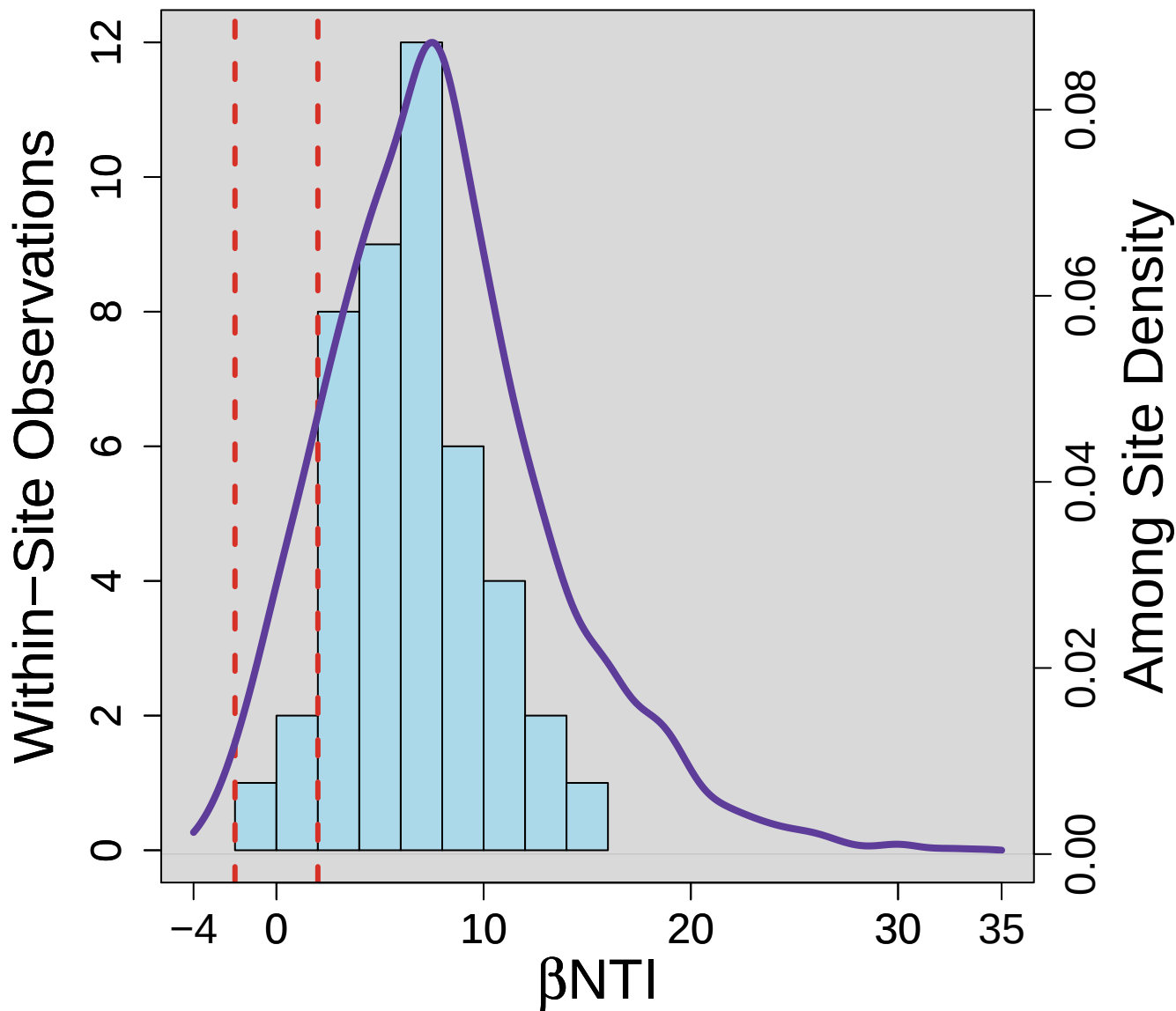
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Site 56



Site 61



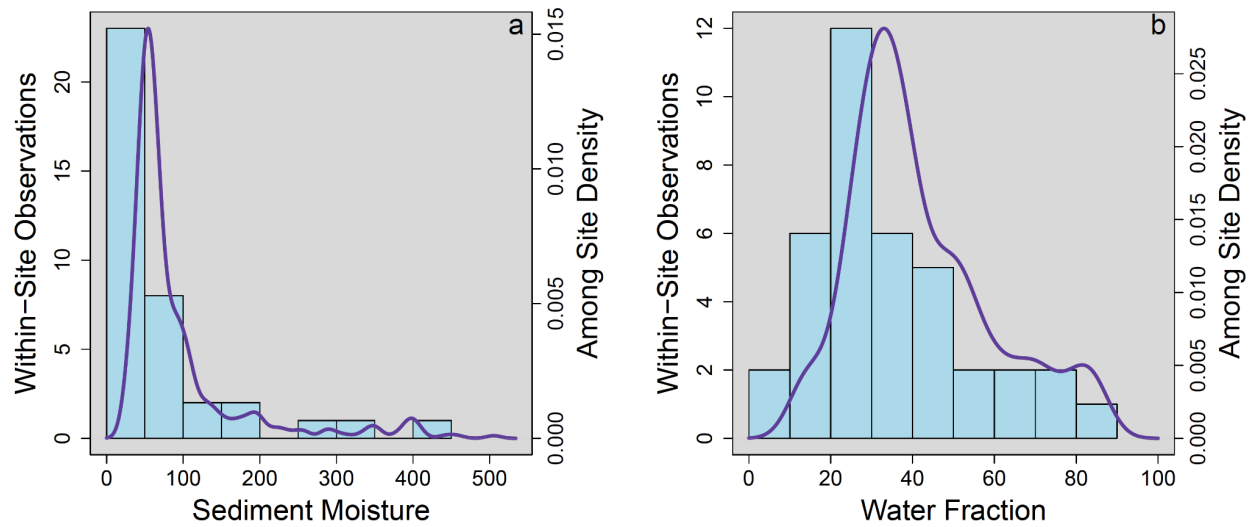


Figure S2: Distributions of within-site and among-site variation in sediment moisture and water fraction. Sediment moisture represents sediment water content normalized by sediment dry mass (a) water fraction indicates the fraction of the sample that is water (b). Blue histograms (left-hand axes) show distributions of within-site median sediment moisture and water fraction. Purple lines (right-hand axes) show the sample-level among-site distribution of sediment moisture and water fraction, fit as Gaussian kernel density functions.

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