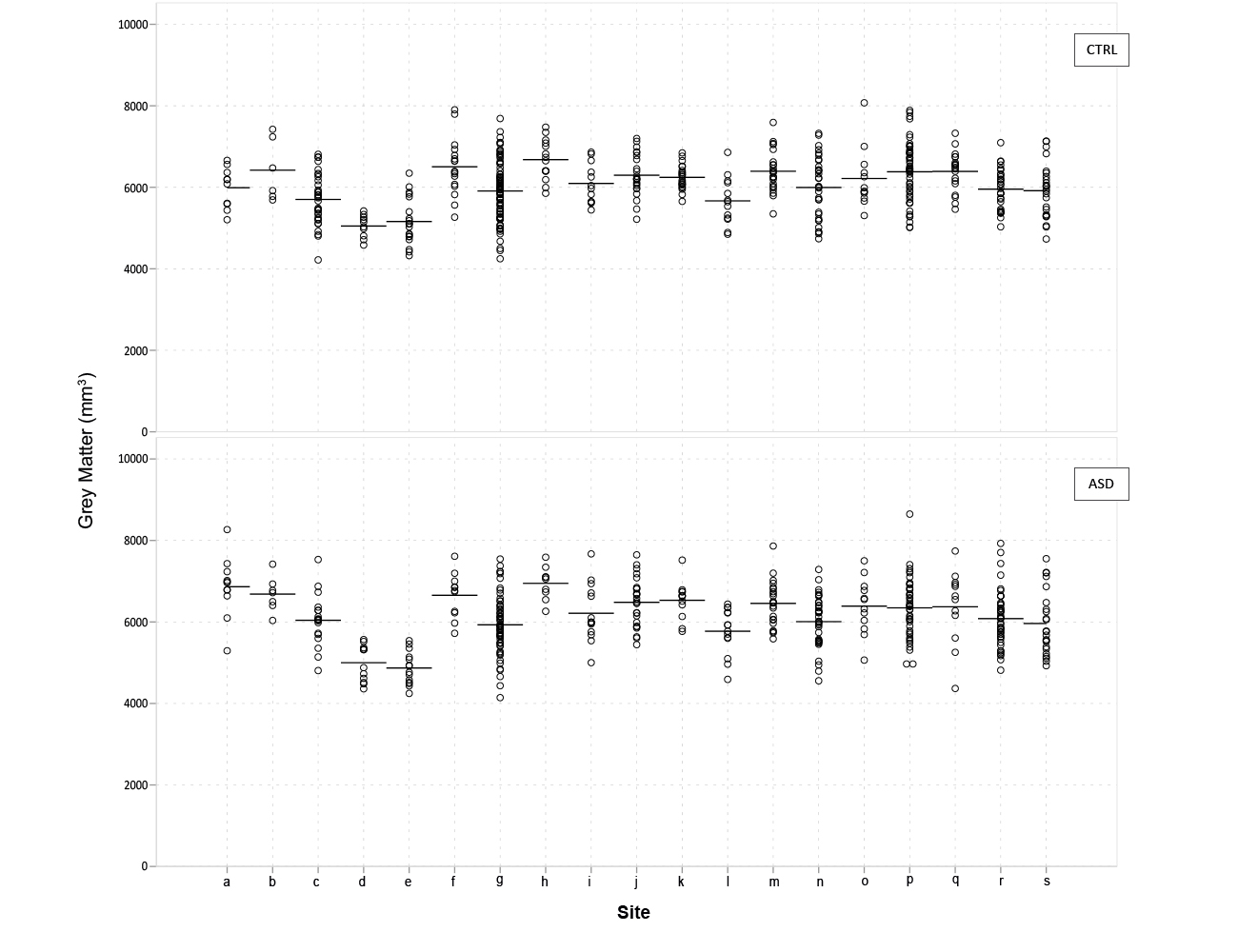
**Supplementary material**

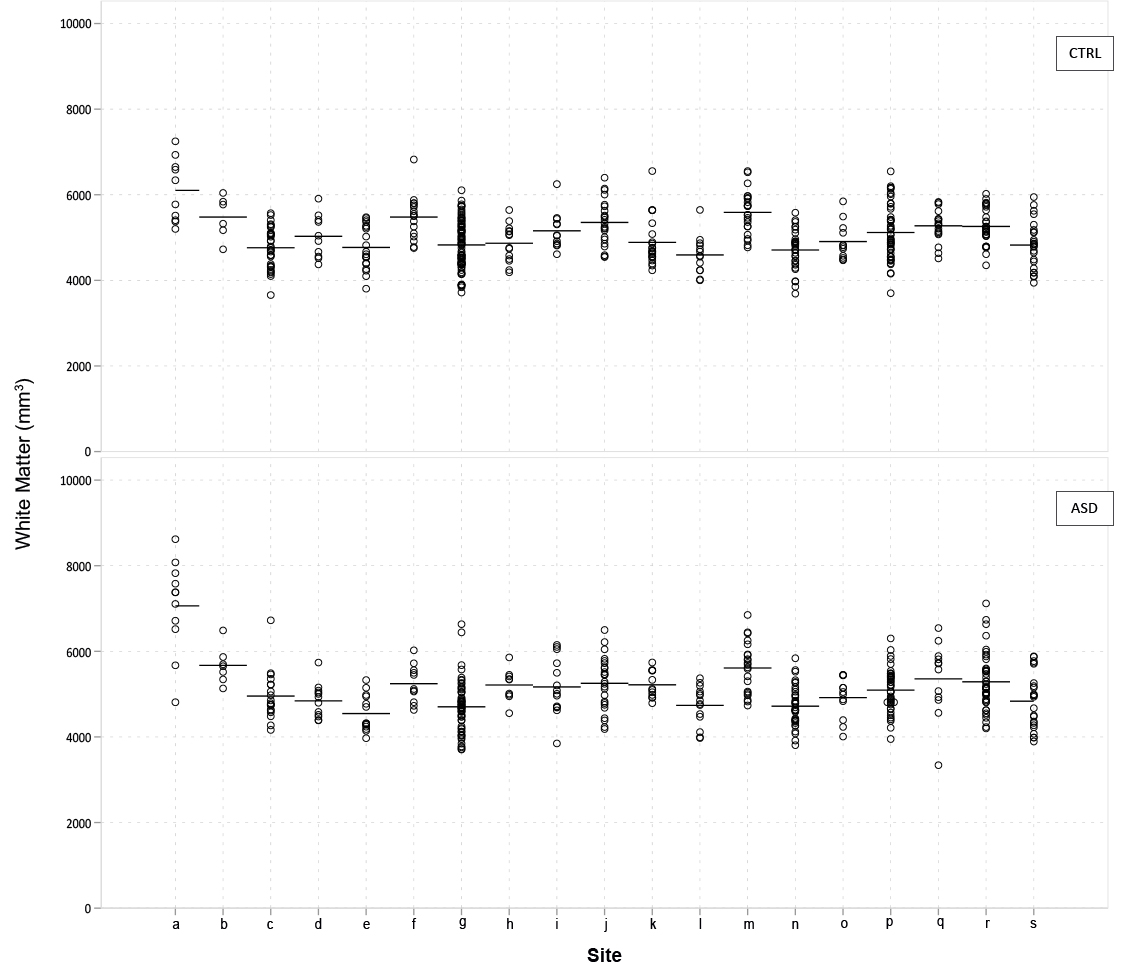
**Figure S1. Volumes of grey matter, white matter and sub-cortical structures for participants with ASD and controls by scanning site**

Caption Fig S1. Panels a) – i) show right and left brain volumes in cubic millimeter (mm3) for participants with ASD and controls by scanning site. Circles represent brain volume of each participant. a = California Institute of Technology; b = Carnegie Mellon University; c = Kenny Krieger Institute; d = University of Leuven Sample 1; e = University of Leuven Sample 2; f = Ludwig Maximilians University Munich; g = NYU Langone Medical Center; h = Oregon Health and Science University; i= Olin, Institute of Living at Hartford Hospital; j = University of Pittsburgh School of Medicine; k = San Diego State University; l = Stanford University; m = Trinity Center for Health Sciences; n = University of California Los Angeles Sample 1; o = University of California Los Angeles Sample 2; p = University of Michigan Sample 1; q = University of Michigan Sample 2; r = University of Utah School of Medicine; s = Yale Child Study Center

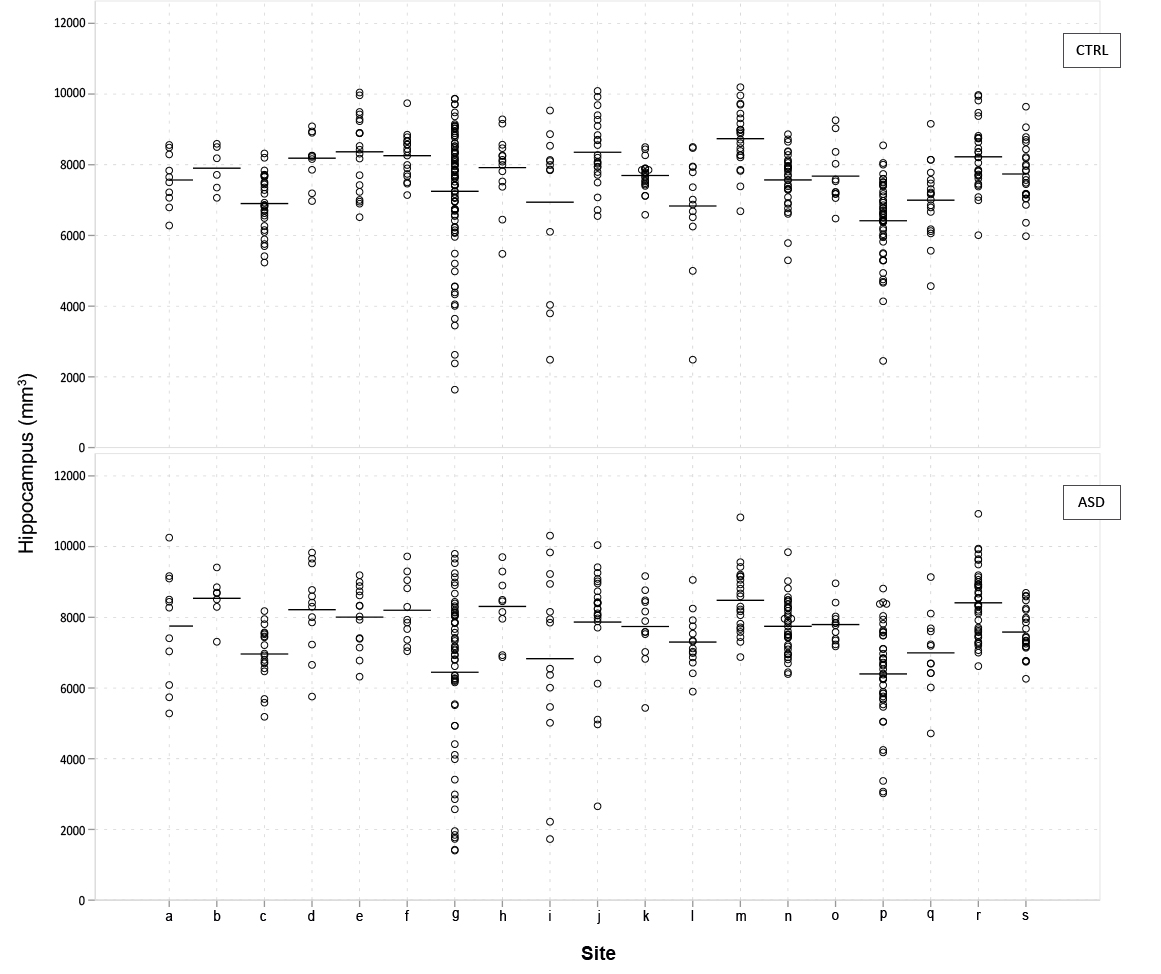
a)



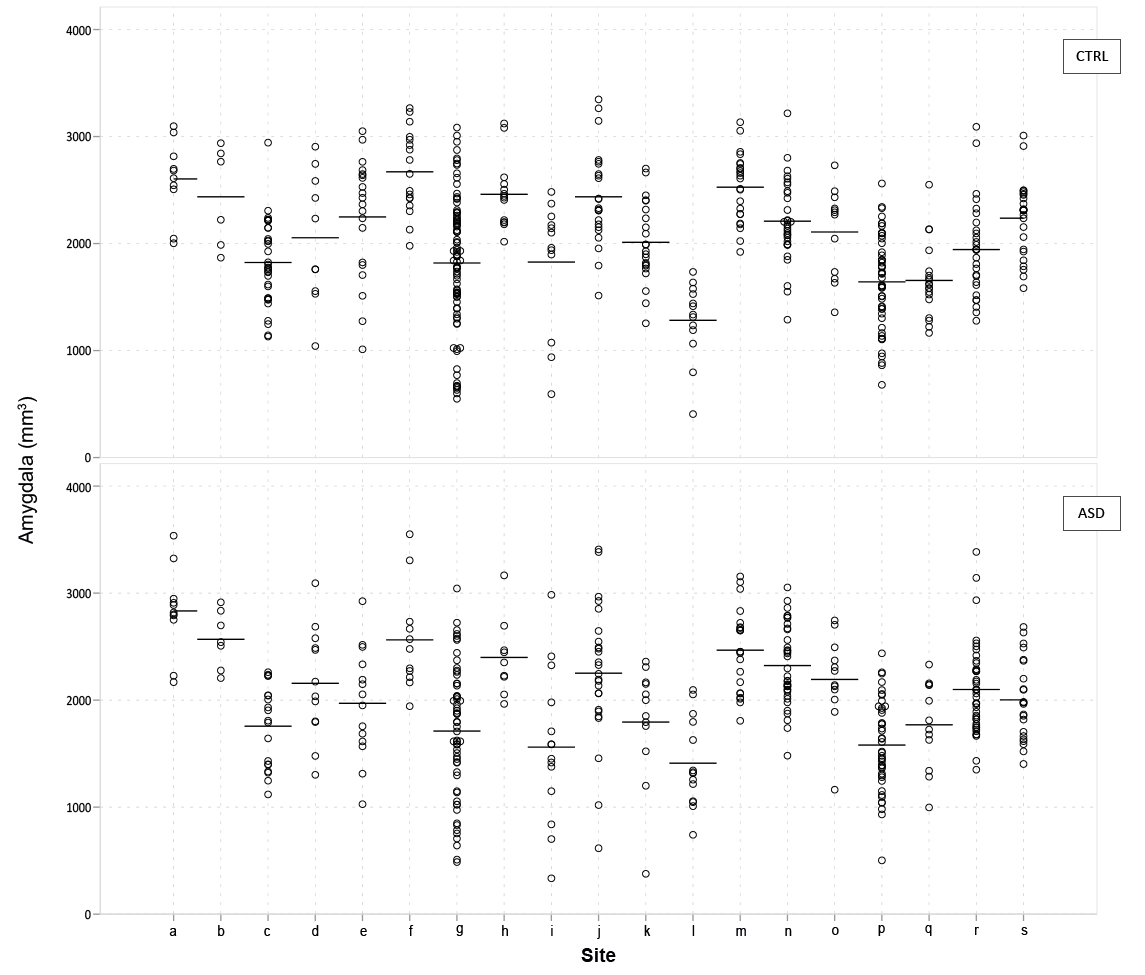
b)

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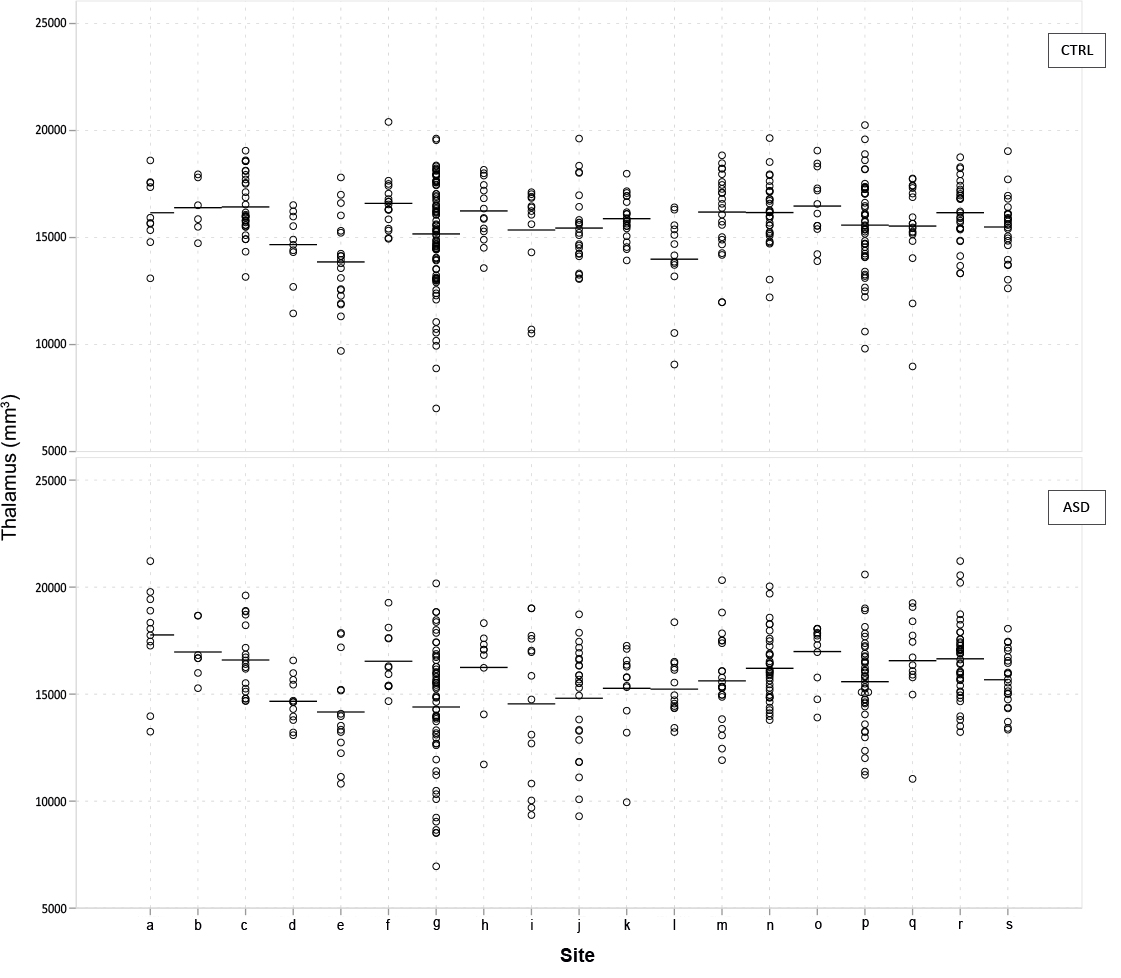
**c)**

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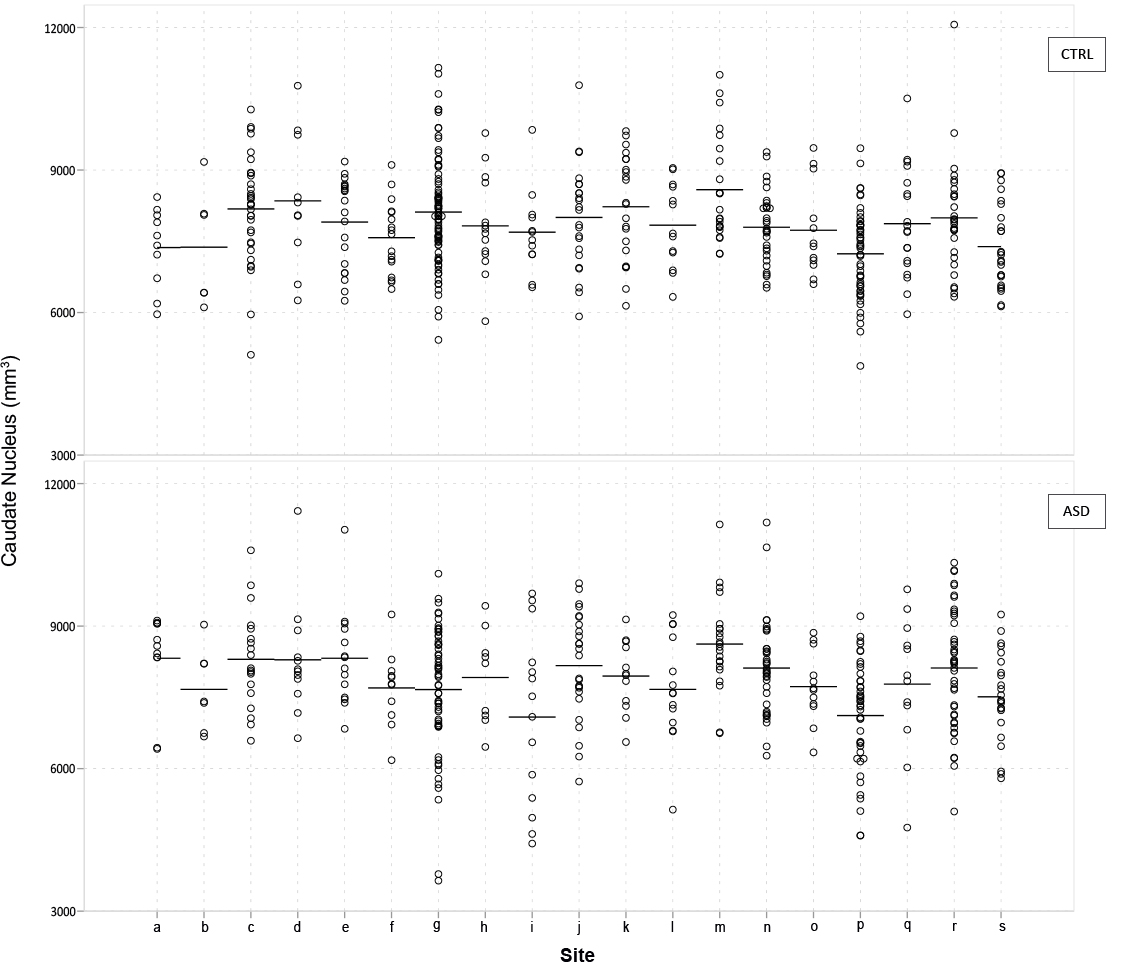
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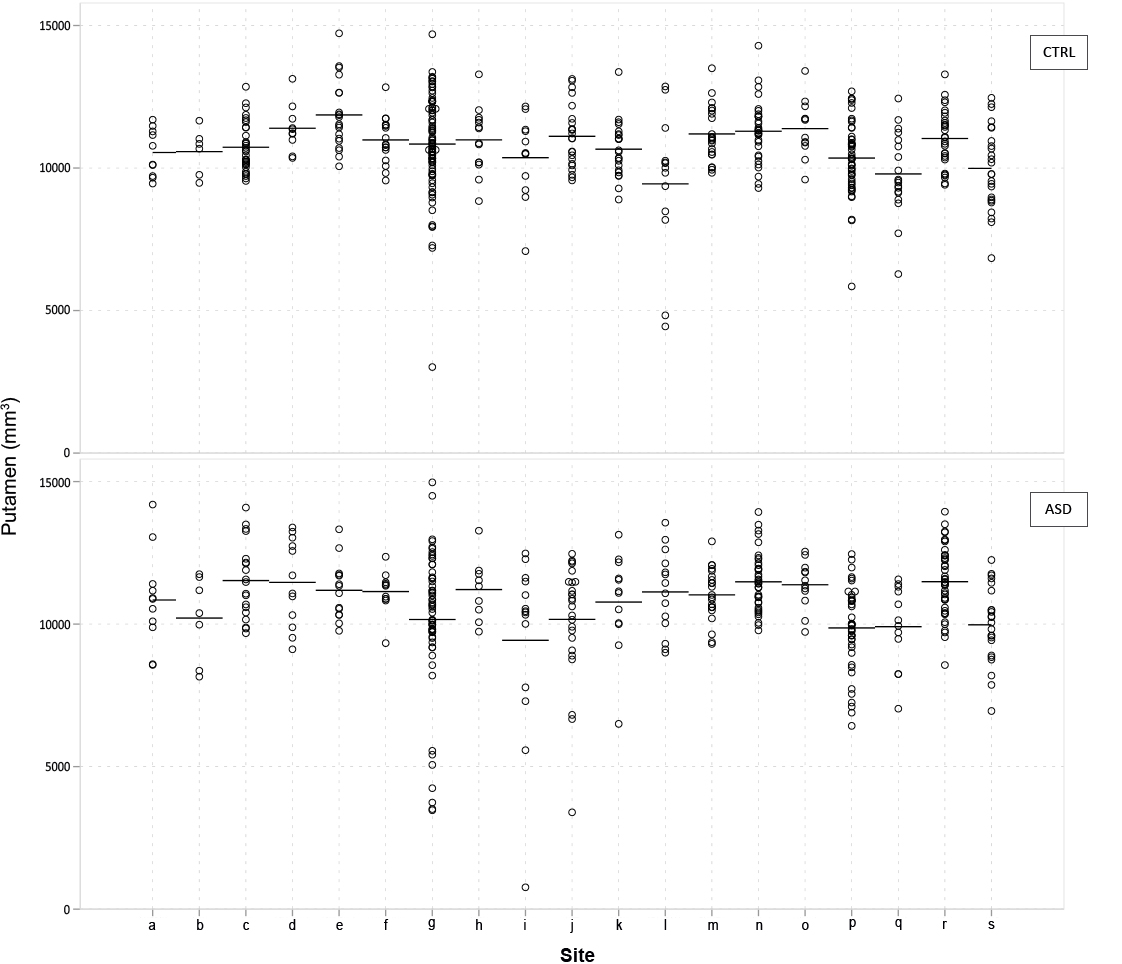
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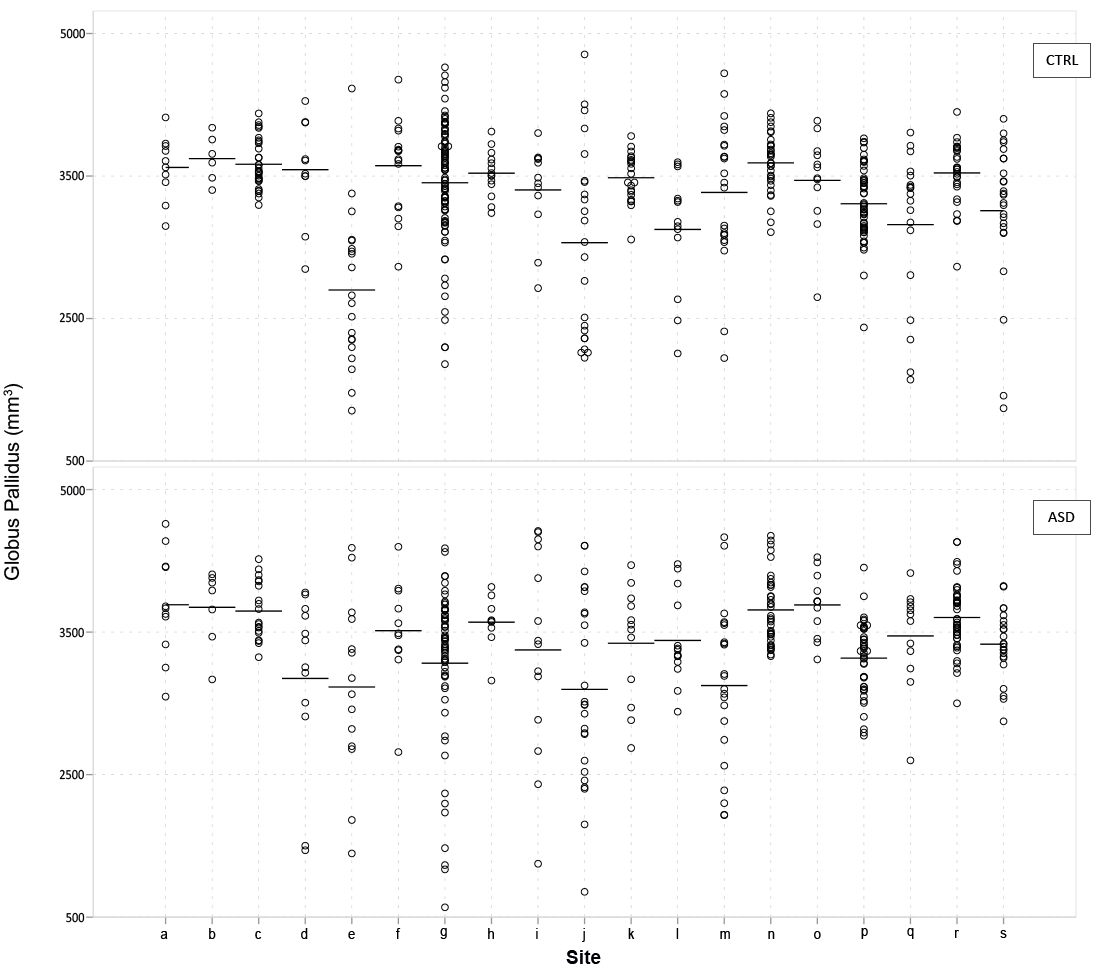
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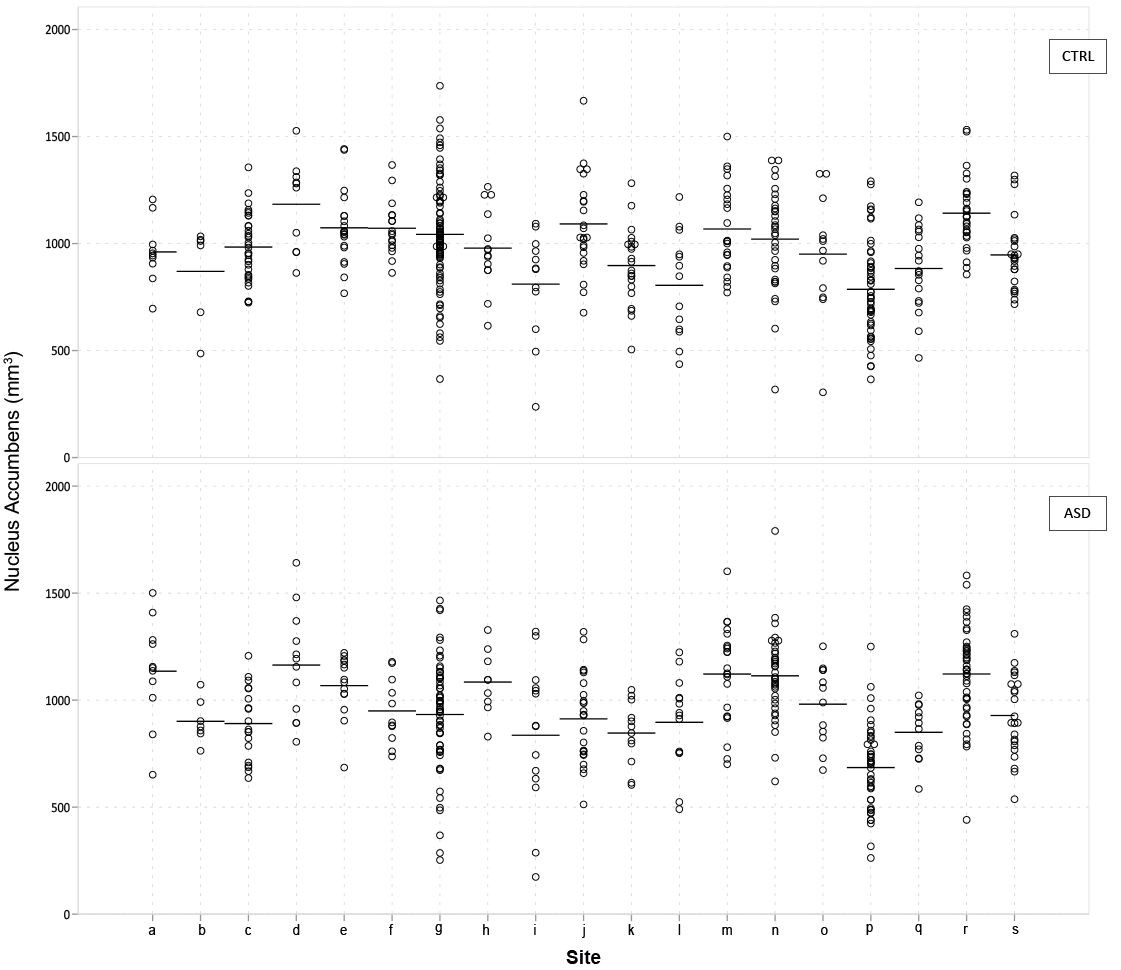
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**g)**

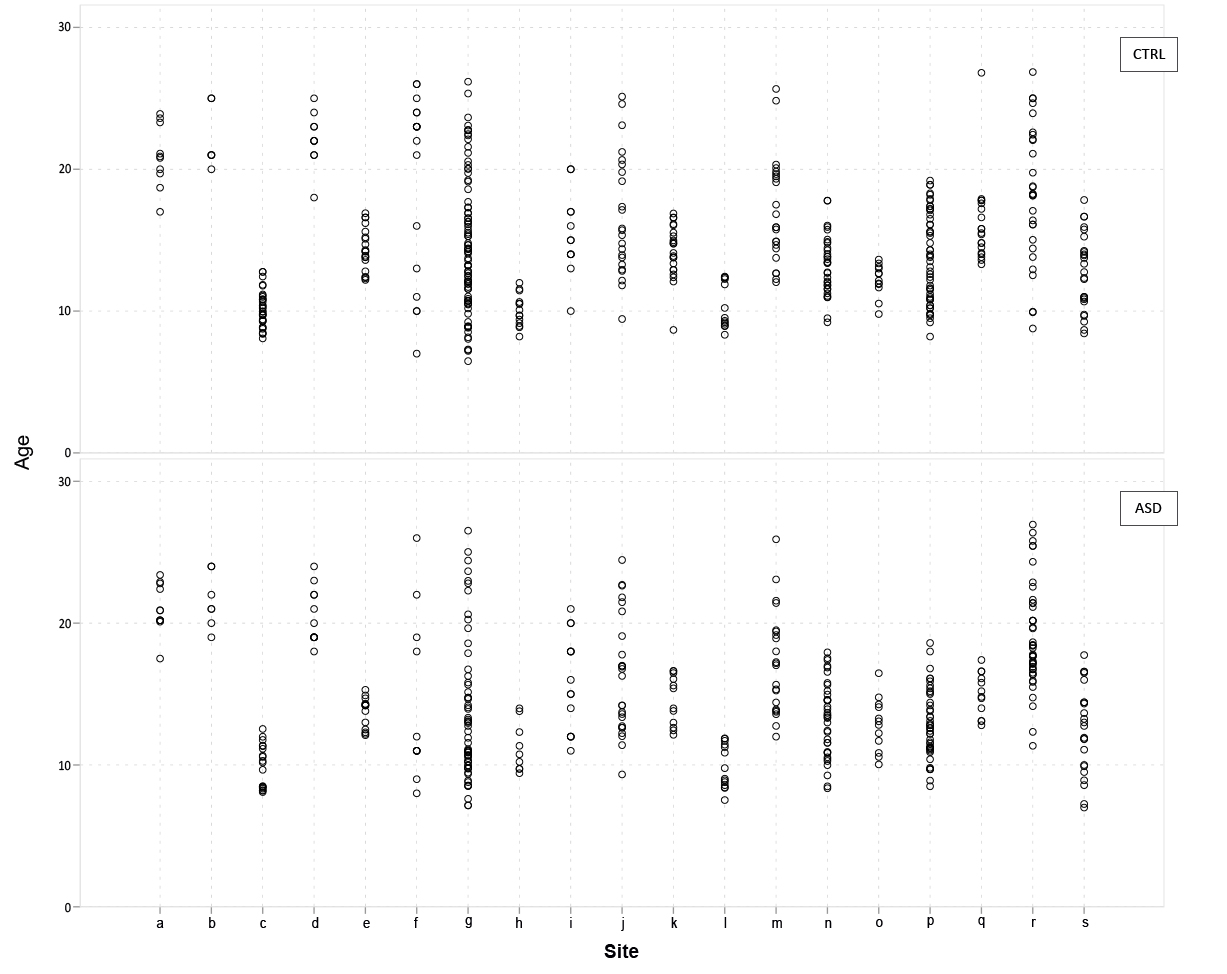
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**h)**

**i)**

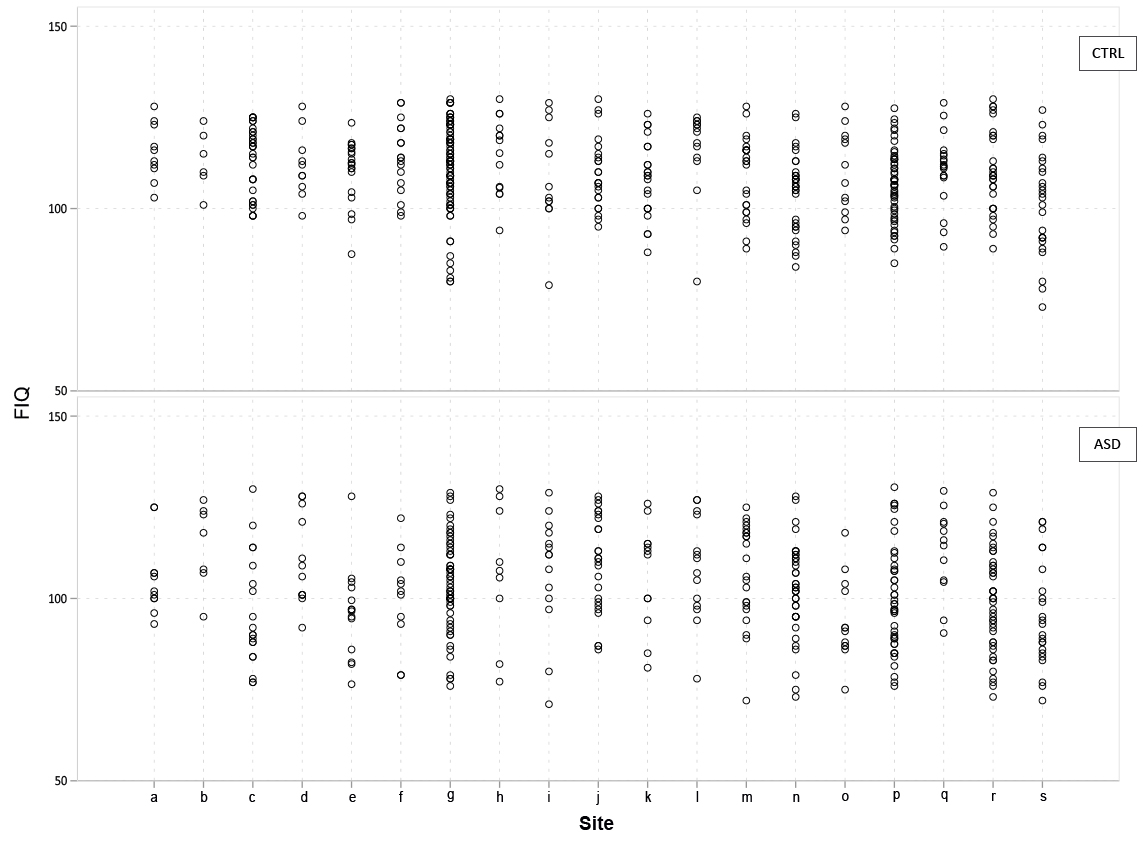
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**Figure S2. Age of participants with ASD and controls by study site**

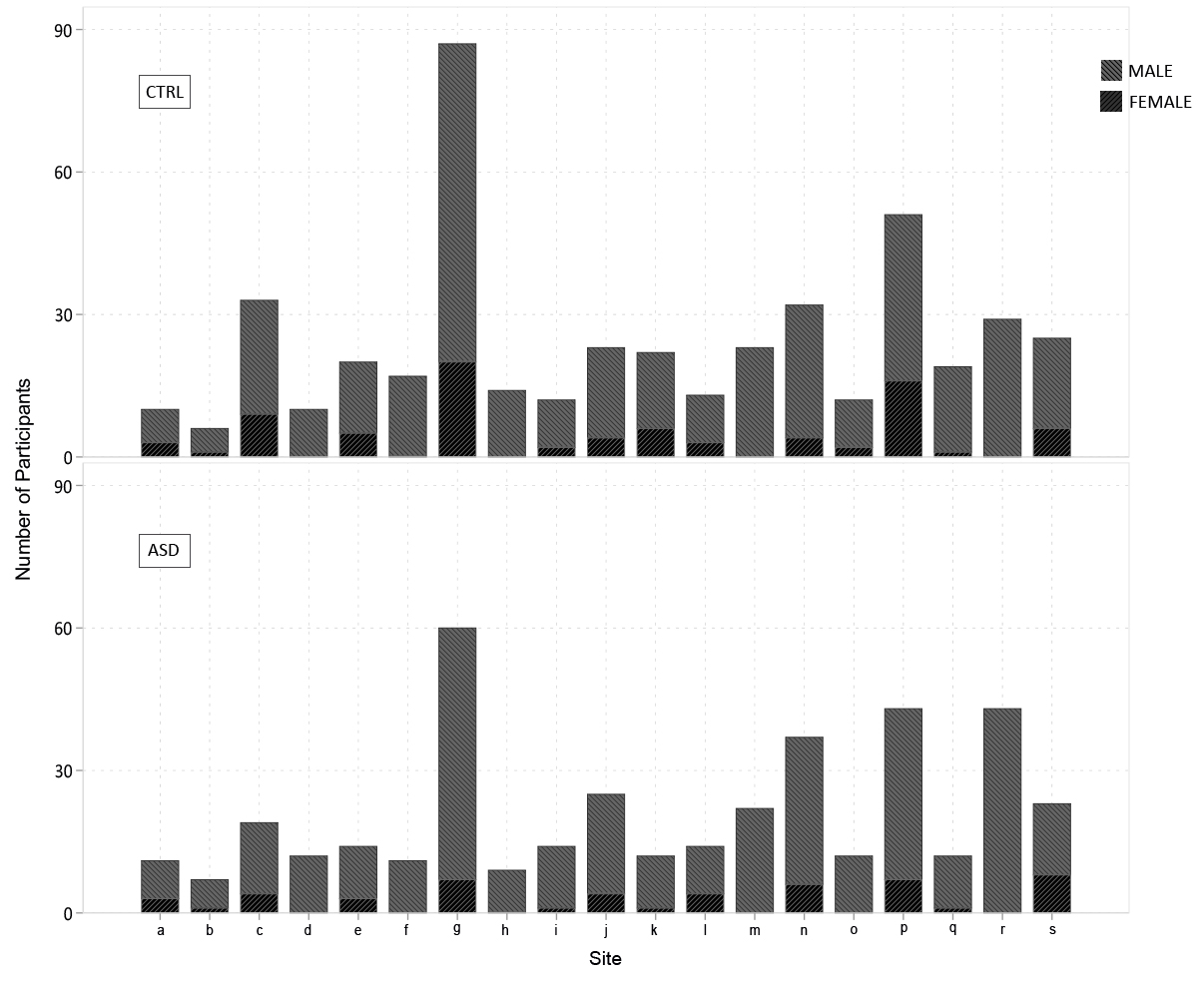
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Caption Fig S2. Circles represent age of each individual. See Figure S1 for explanation of study site abbreviations.

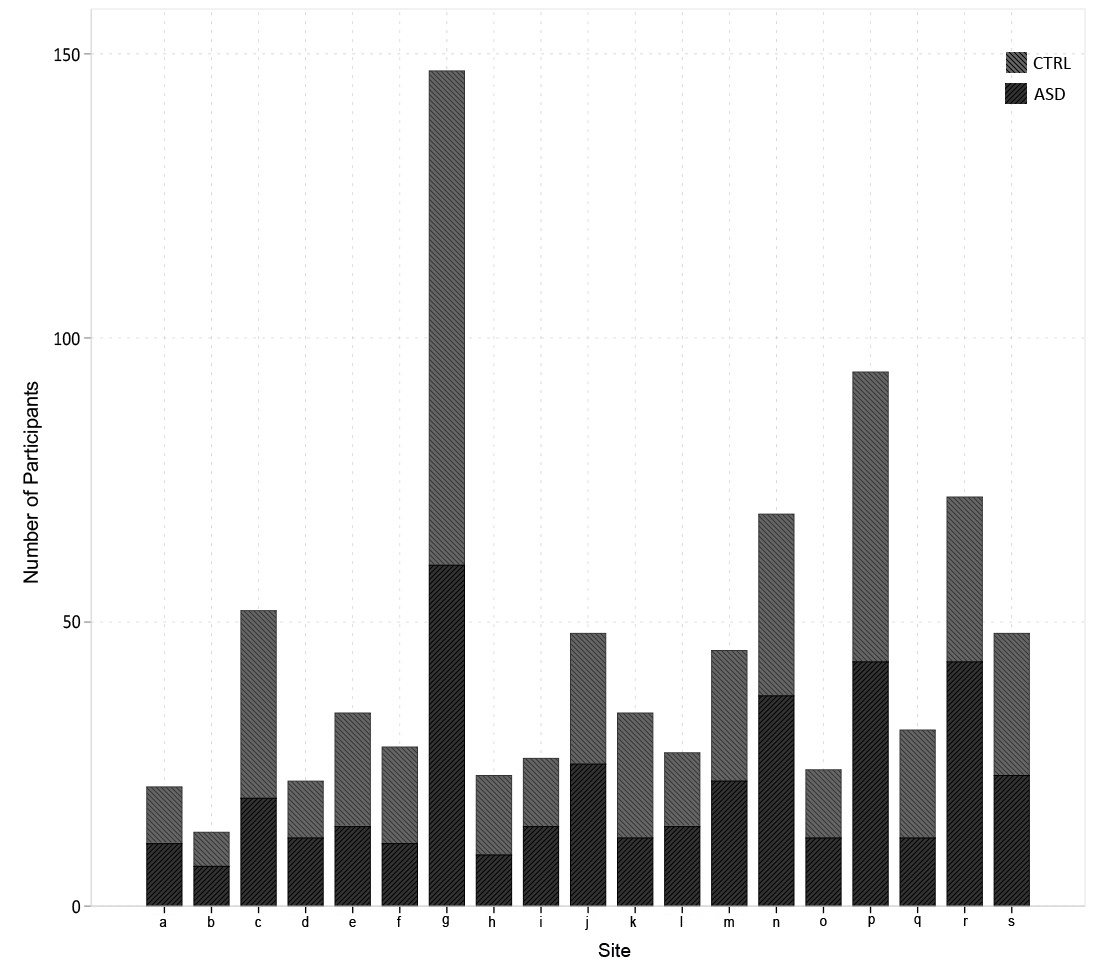
**Figure S3. Full scale IQ for participants with ASD and controls by study site**

Caption Fig S3. Circles represent FIQ scores of each individual. FIQ= full scale IQ. See Figure S1 for explanation of study site abbreviations.

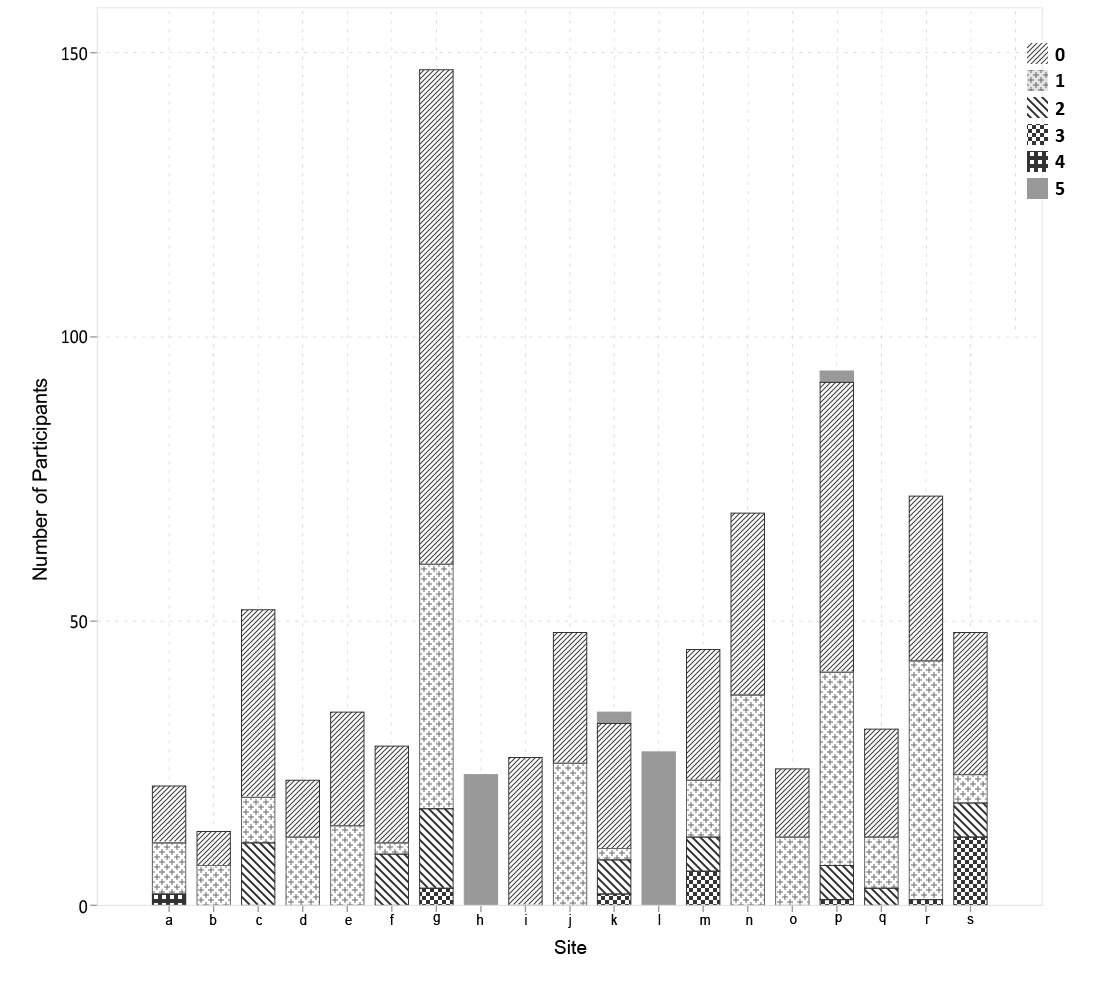
**Figure S4. Case number of gender for participants with ASD and controls by study site**

Caption Fig S4. See Figure S1 for explanation of study site abbreviations.

**Figure S5. Number of participants with ASD and controls by scanning site**

Caption Fig S5. See Figure S1 for explanation of scanning site abbreviations.

**Figure S6. DSM-IV-TR diagnostic categories by scanning site**



Caption Fig S6. See Figure S1 for explanation of scanning site abbreviations. DSM-IV-TR= fourth and text revised edition of the Diagnostic and Statistical Manual of Mental Disorder; DSM-IV-TR codes: 0 = Control; 1 = Autism; 2 = Aspergers; 3 = PDD-NOS; 4 = Asperger or PDD-NOS 5 = not available.