



**Fig 1. | Macaque brain charts.** a) Comparison of lifespan and age milestones between macaque and human. b) Demographic box plot of aggregated and processed data used in the analysis. Data includes 1,024 macaques with 1,522 MRI scans collected from 23 unique sites. c) Raw bilateral tissue volume (shown in mL) for gray matter, cortical white matter, sub cortical gray matter, and the lateral ventricles. Data is shown on a log scale, with points colored by sex. d) Normative trajectories of the four tissue volumes fit with GAMLSS, incorporating sex stratification and site-specific random effects, represented as median curves of the population. Dotted lines represent 2.5% and 97.5% centile distributions, with both curves colored by sex. e) ‘Unharmonized’ site specific curves for each tissue type. Trajectories show ranges of each contributing dataset with the site-specific random effect removed. Harmonization across these curves yields the normative, population level trajectories. f) Volumetric rate of growth (in mm<sup>3</sup> per day) for each of the four global tissue types, colored by sex. Solid vertical lines denote the peak rate of growth.