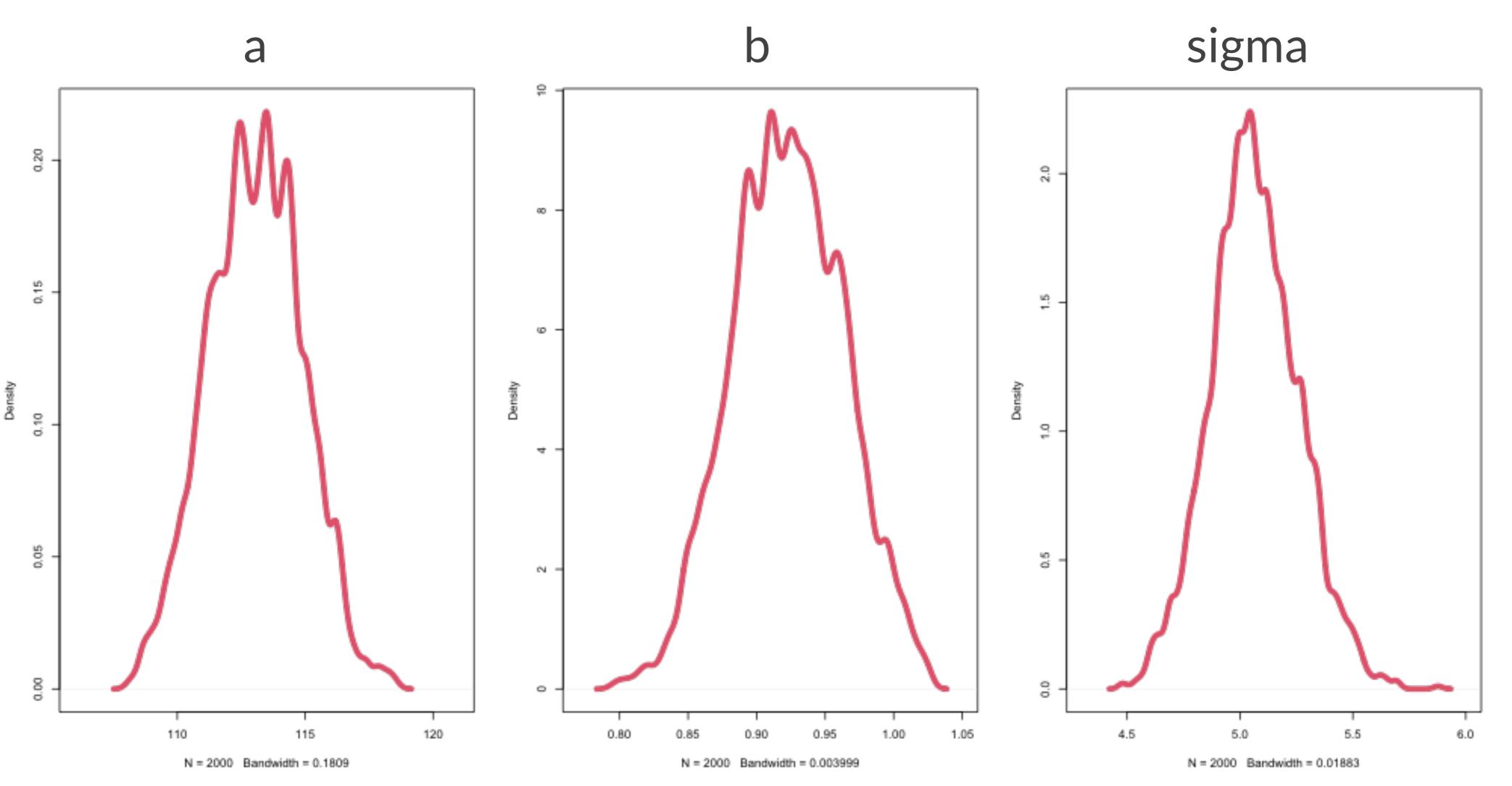


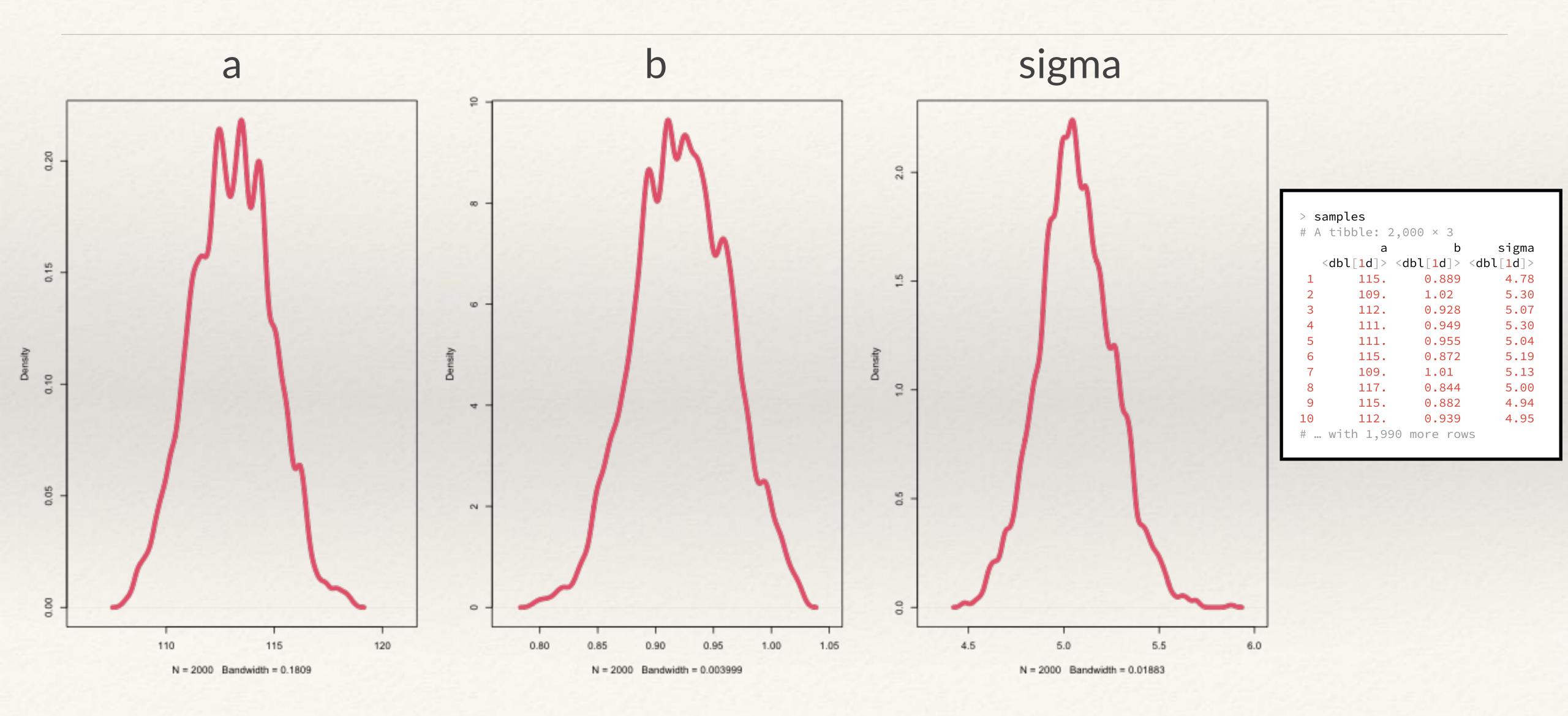


THE POSTERIOR PARAMETER DISTRIBUTION



```
> samples
# A tibble: 2,000 × 3
                      sigma
                 b
         а
  <dbl[1d]> <dbl[1d]> <dbl[1d]>
      115. 0.889 4.78
2
                    5.30
      109. 1.02
3
     112. 0.928
                    5.07
4
     111.
              0.949
                     5.30
5
     111.
             0.955
                     5.04
6
     115.
              0.872
                     5.19
      109.
              1.01
                     5.13
8
      117.
              0.844
                     5.00
      115.
            0.882
                     4.94
10
                      4.95
     112.
           0.939
# ... with 1,990 more rows
```

THE POSTERIOR PARAMETER DISTRIBUTION



CATEGORIAL PREDICTORS AND CONTRASTS

We can also use categorical predictors to estimate per-group averages.

- K_i : caloric content of milk in several monkey groups
- *CLADE*: categorical variable for the monkey groups

$$K_i \sim Normal(\mu_i, \sigma)$$

 $\mu_i = \alpha_{CLADE[i]}$
 $\alpha_i \sim Normal(0, 0.5)$
 $\sigma \sim Exponential(1)$