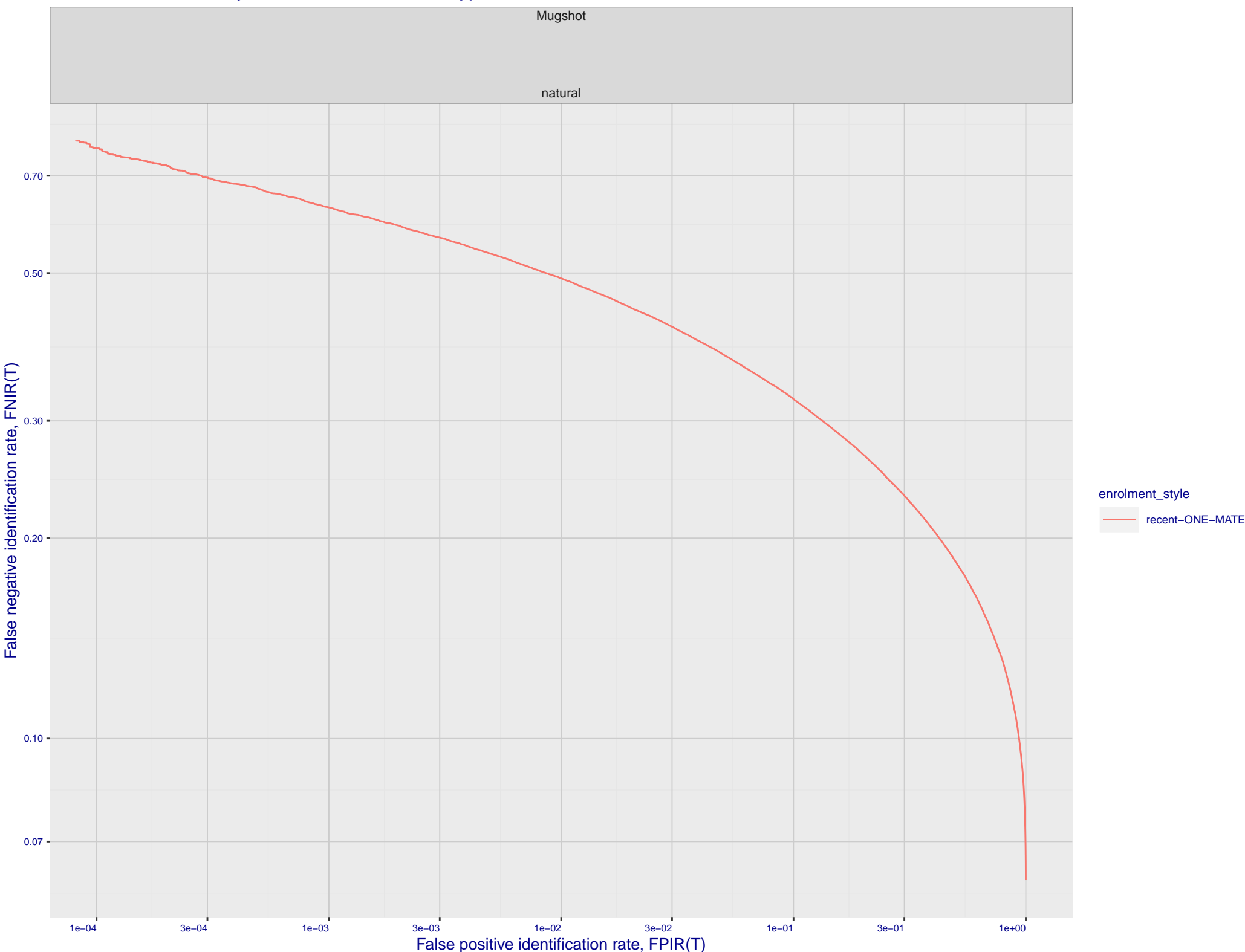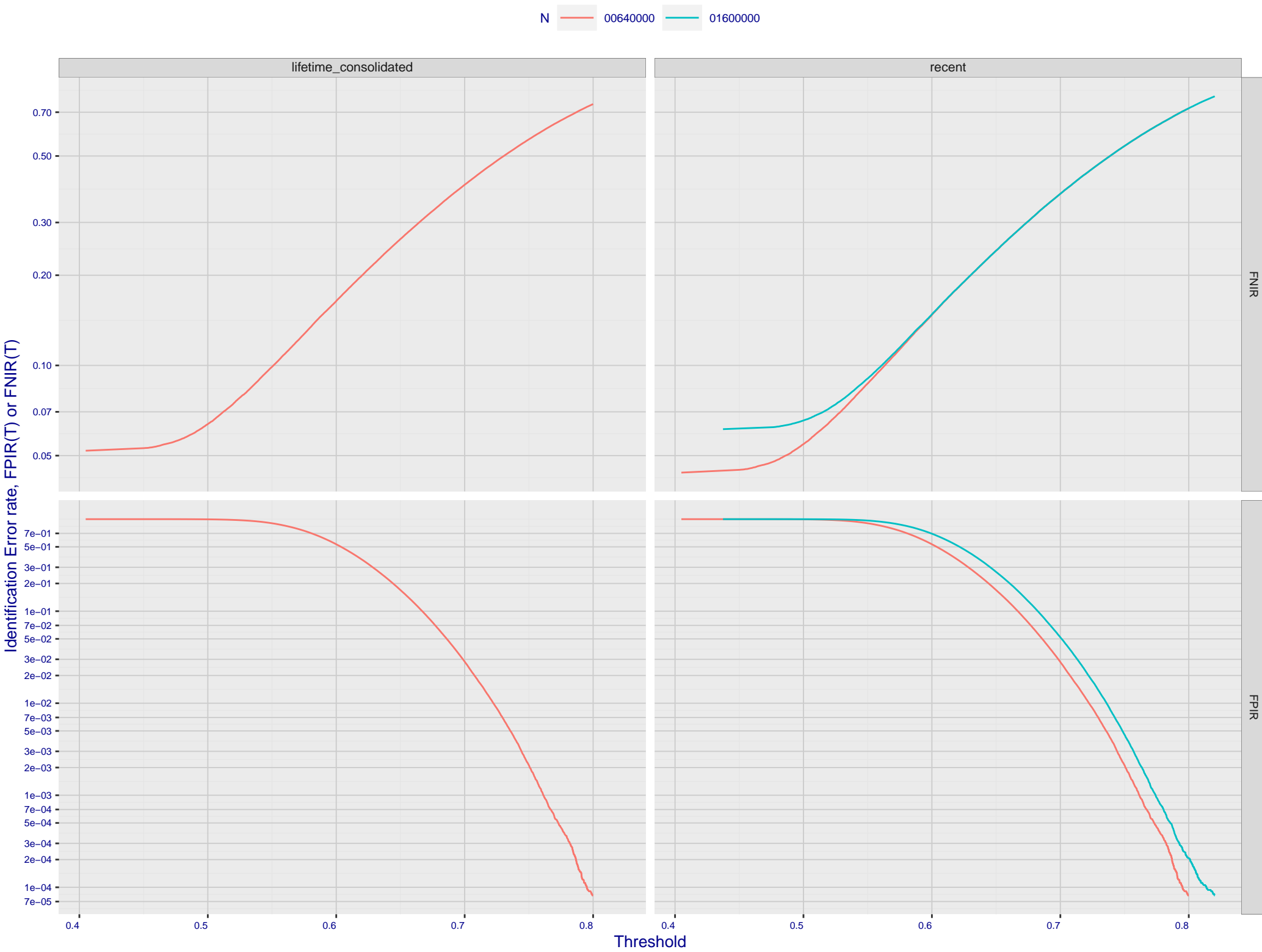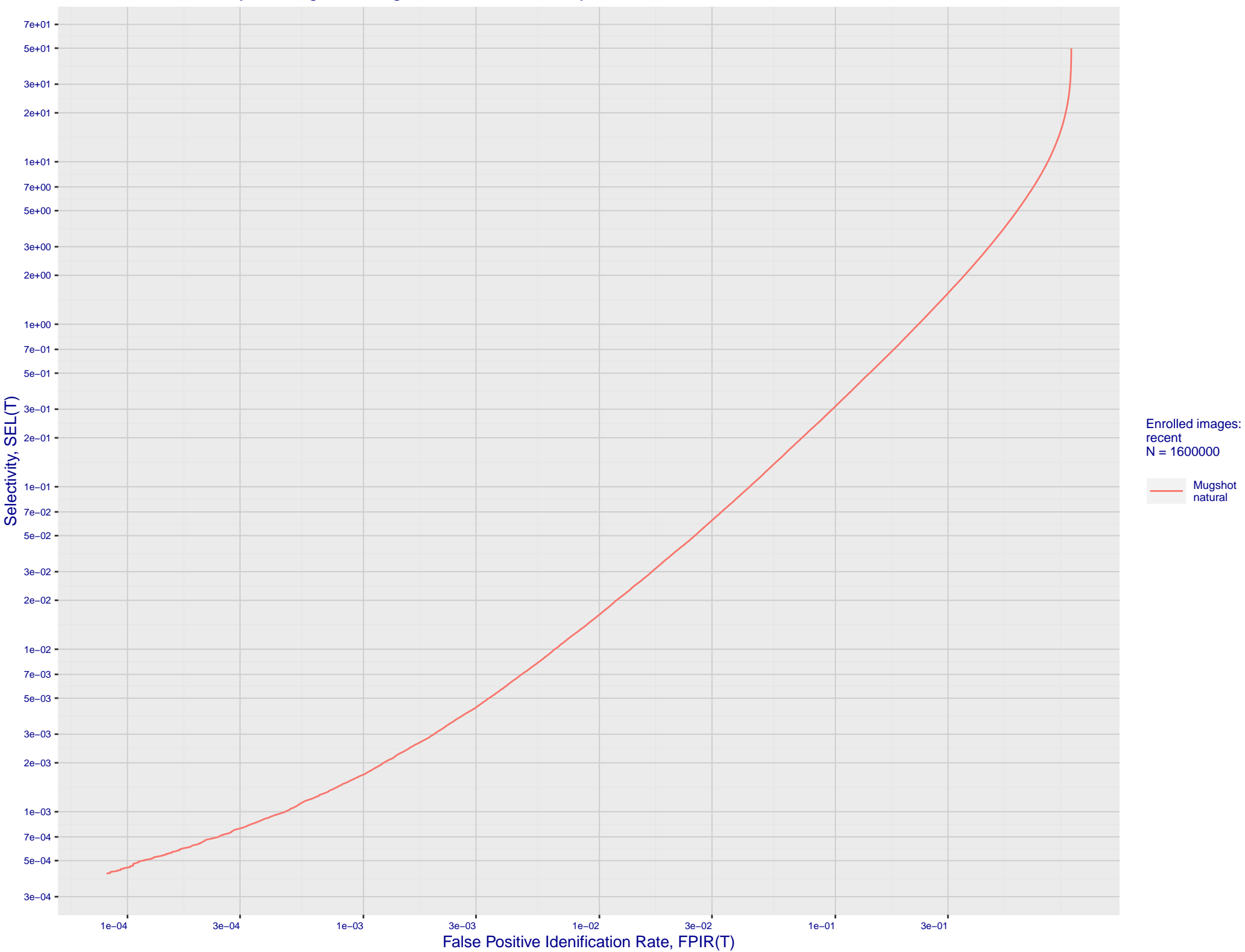A: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals
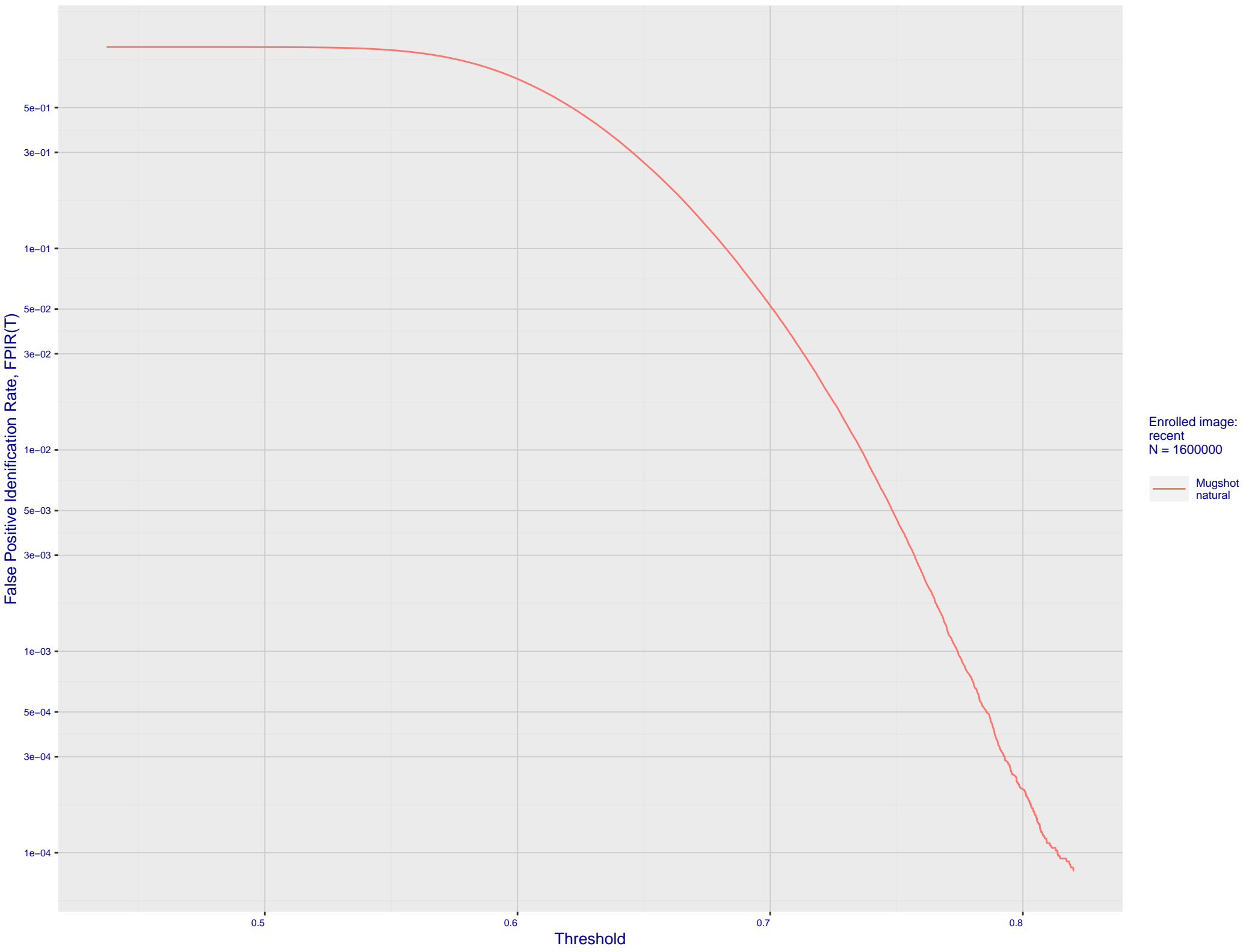
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images
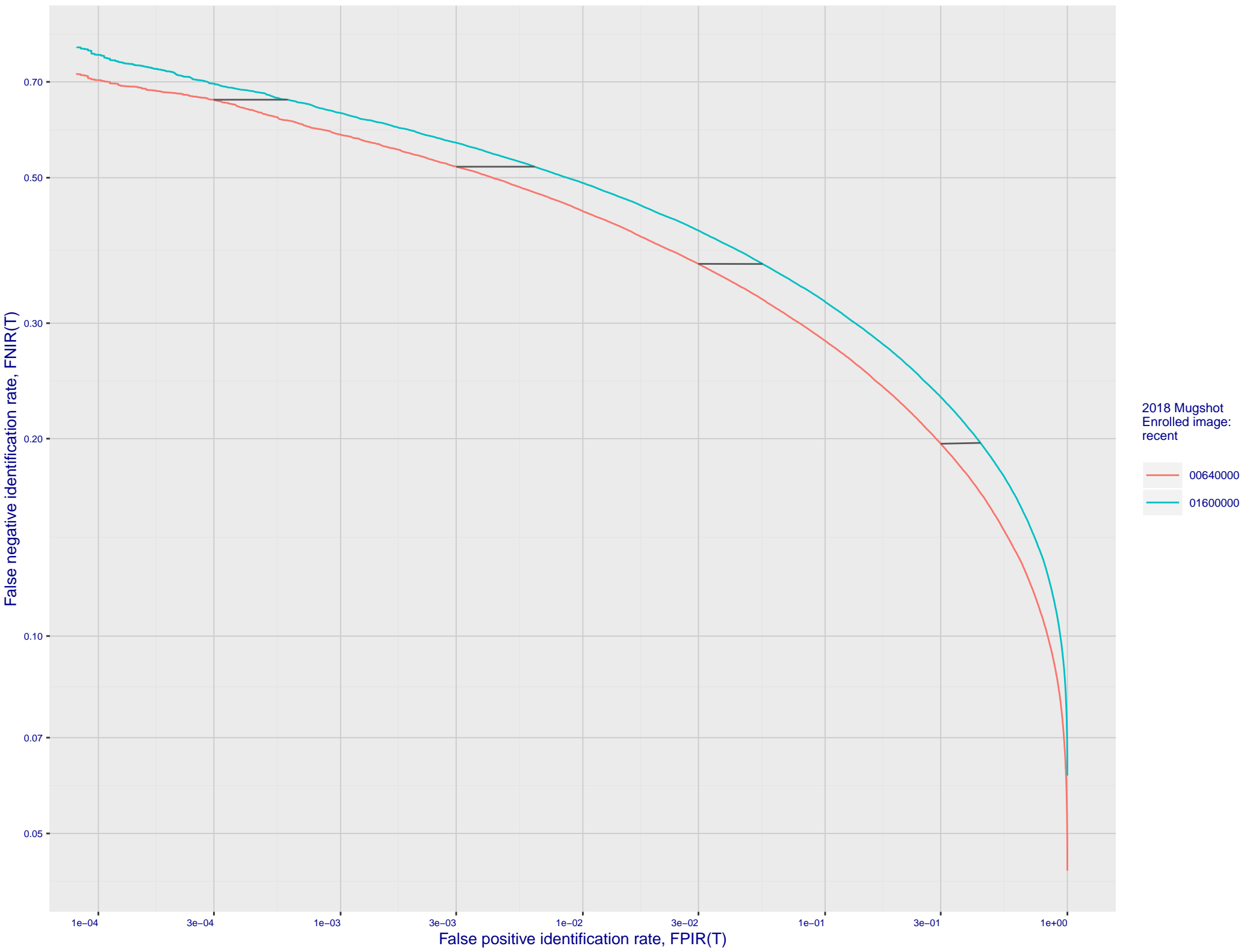
C: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate
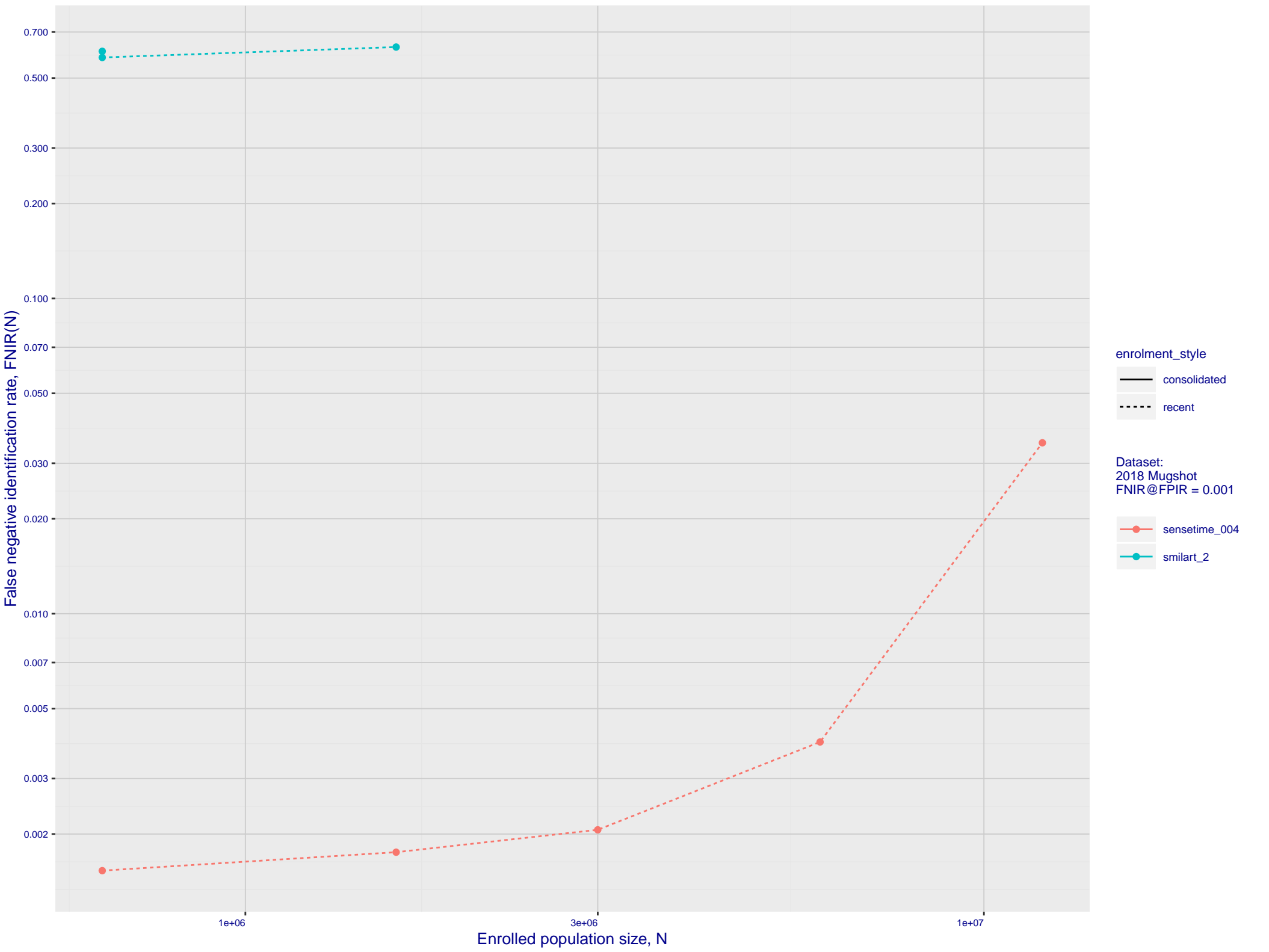
D: FPIR dependence on T by probe type for N = 1600000 subjects

Enrolled image: recent
N = 1600000

Mugshot natural

False Positive Idenification Rate, FPIR(T)

Threshold

E: DET for Mugshot natural images and various N. Links connect points of equal threshold.

Axis labels: False positive identification rate, FPIR(T) (horizontal); False negative identification rate, FNIR(T) (vertical)

Legend: 2018 Mugshot Enrolled image: recent — 00640000, 01600000

F: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime_004)

G: Datasheet

Algorithm: smilart_2

Developer: Smilart

Submission Date: 2018_02_15

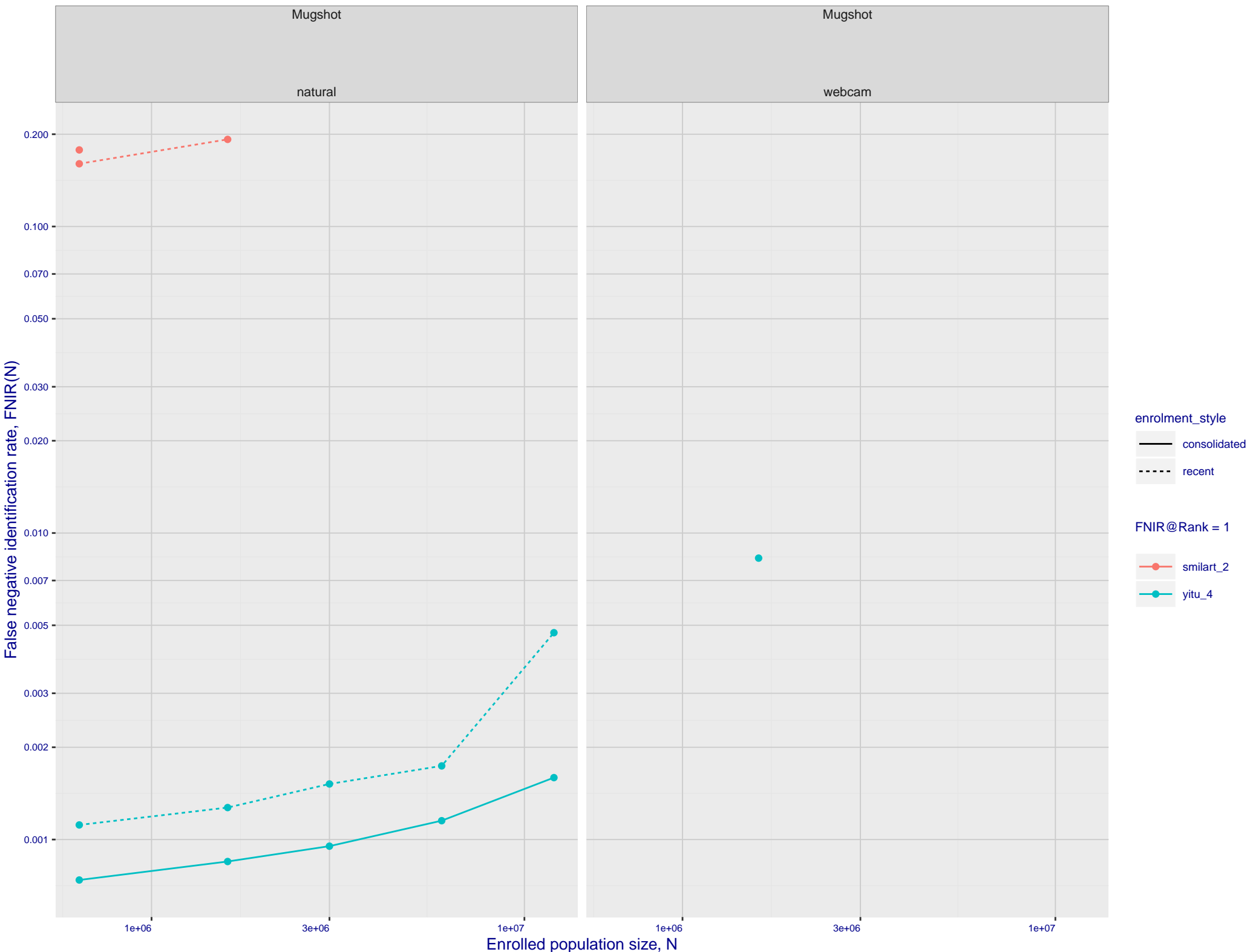Template size: 1024 bytes

Template time (2.5 percentile): 463 msec

Template time (median): 556 msec

Template time (97.5 percentile): 687 msec

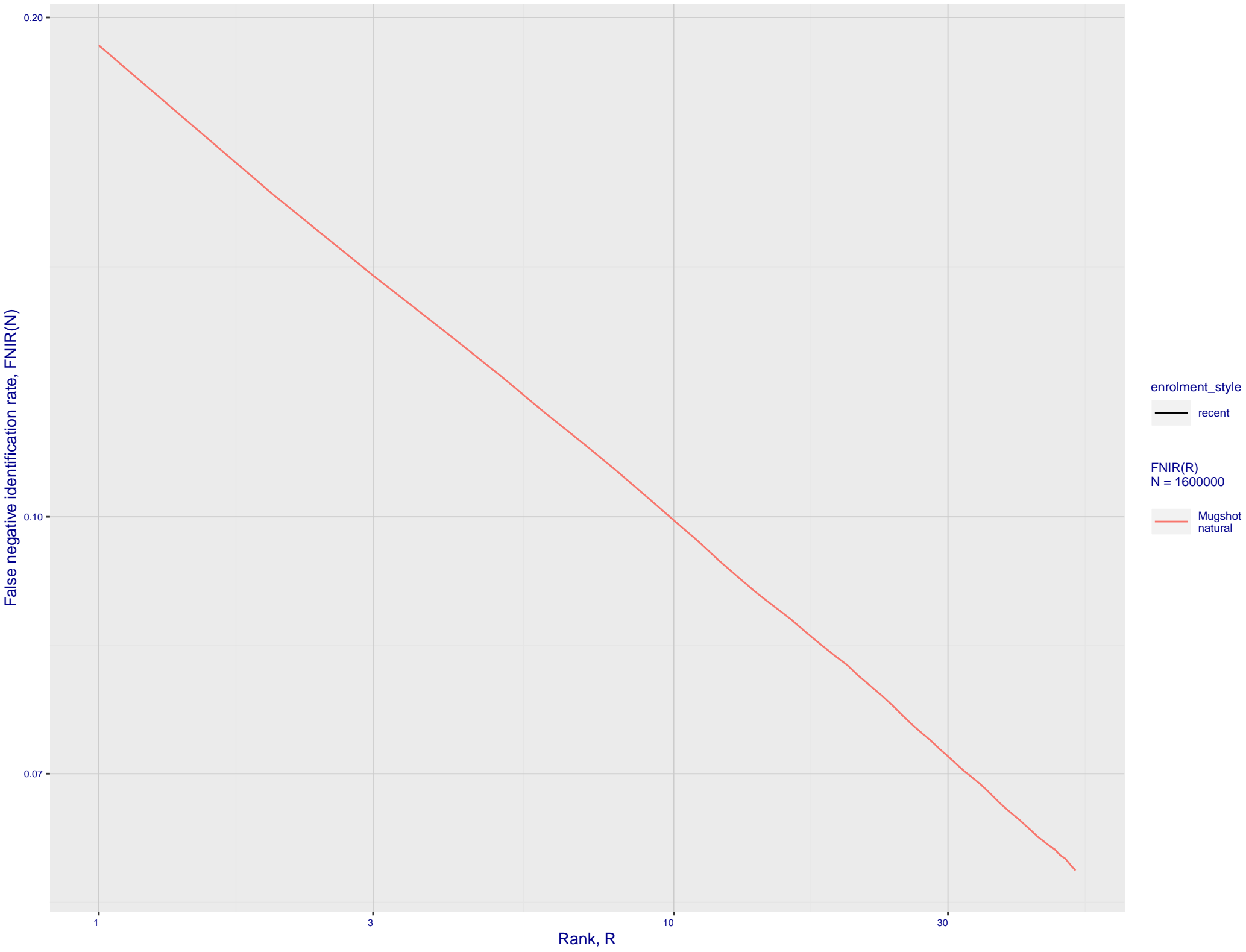Frontal mugshot investigation rank 223 –– FNIR(1600000, 0, 1) = 0.1924 vs. lowest 0.0010 from sensetime_004

Frontal mugshot identification rank 217 –– FNIR(1600000, T, L+1) = 0.6272 vs. lowest 0.0018 from sensetime_004

H: Investigational mode: FNIR(N, 1, 0) vs. most accurate (yitu_4)

I: Investigational mode: FNIR(1600000, R, 0) by probe type

Template duration; search duration vs. N. The blue and pink ribbon covers 95 percent of observed measurements. The template generation time is independent of N. The log and power−law models are fit to the first two (N,T) observations