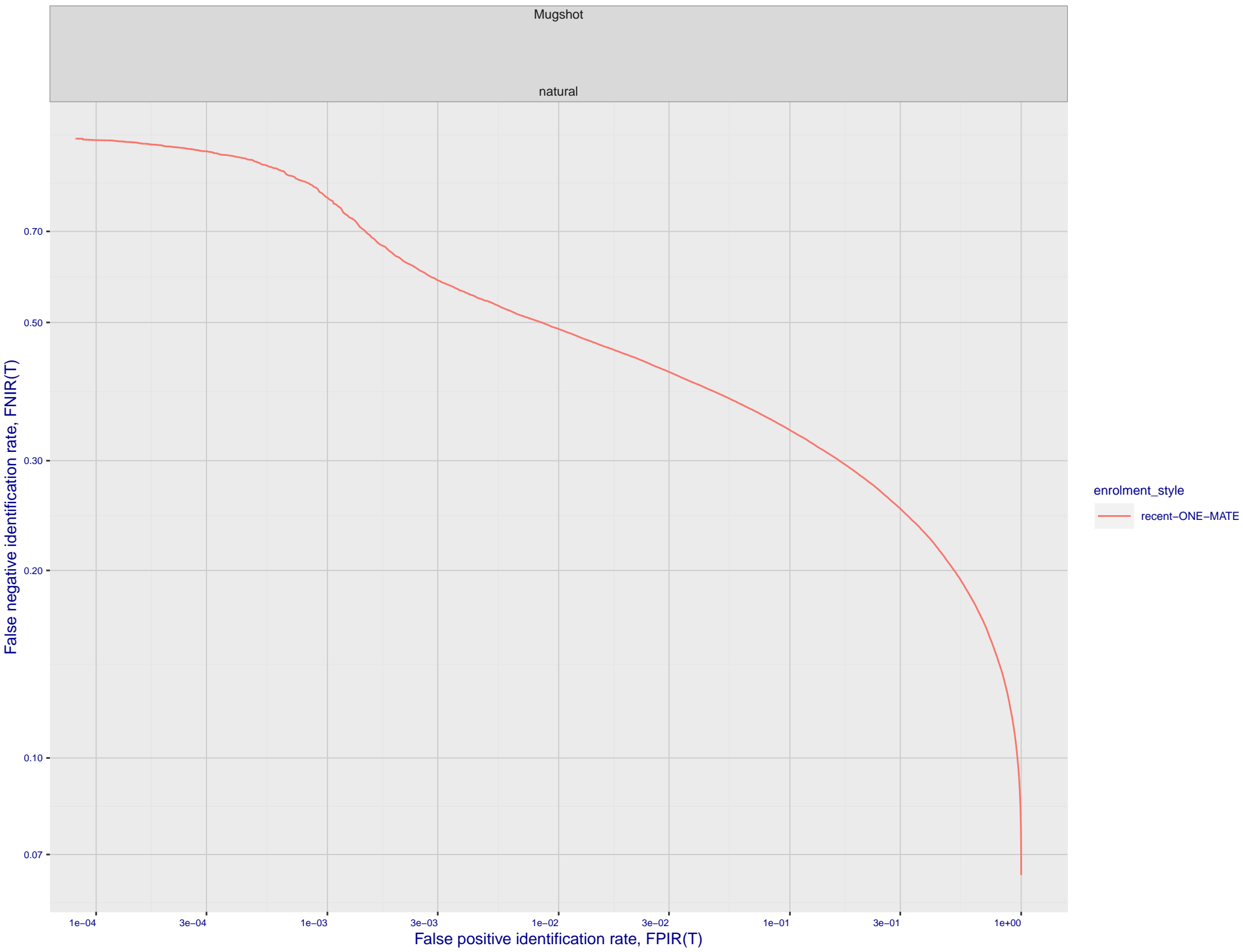
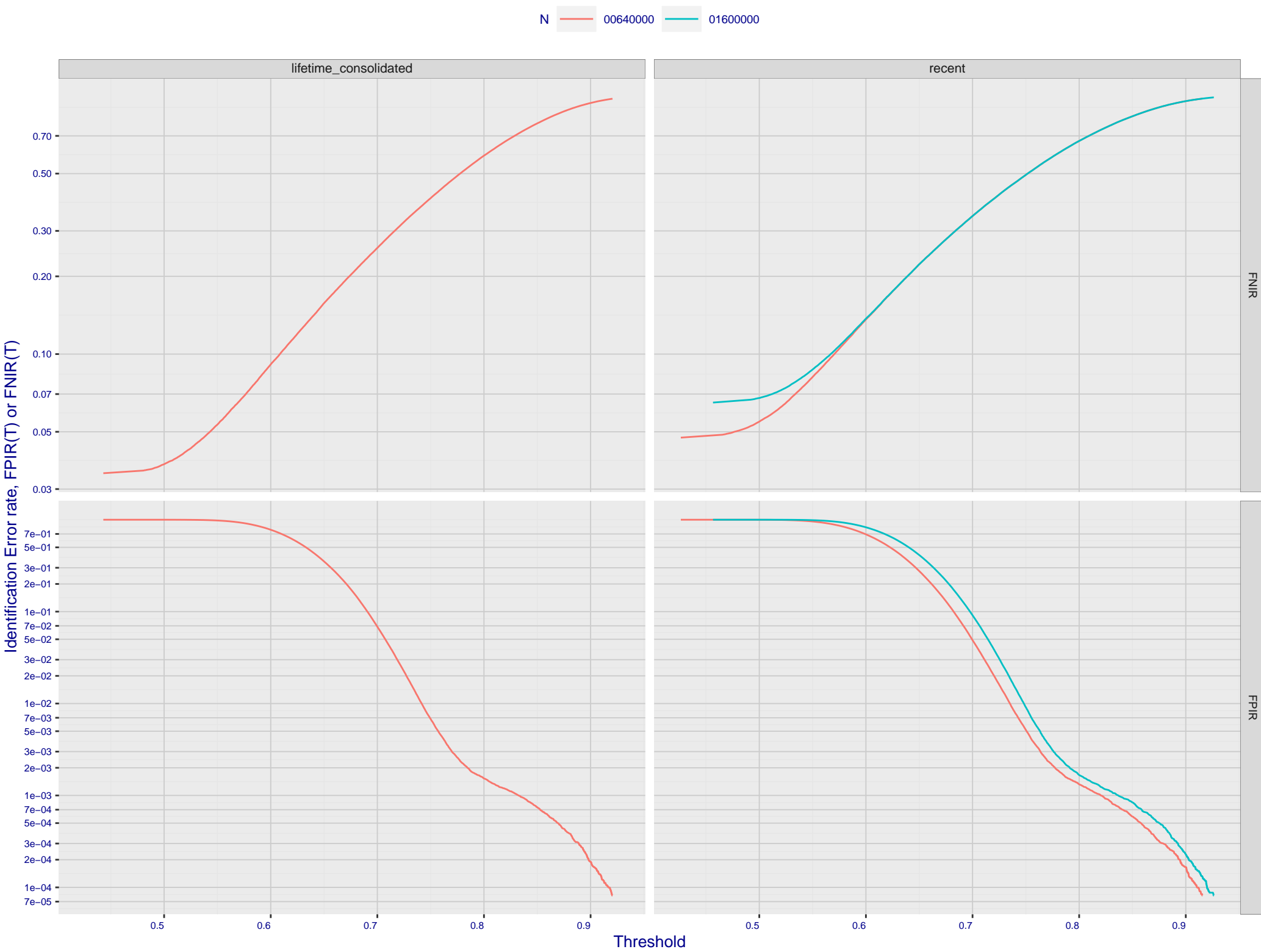


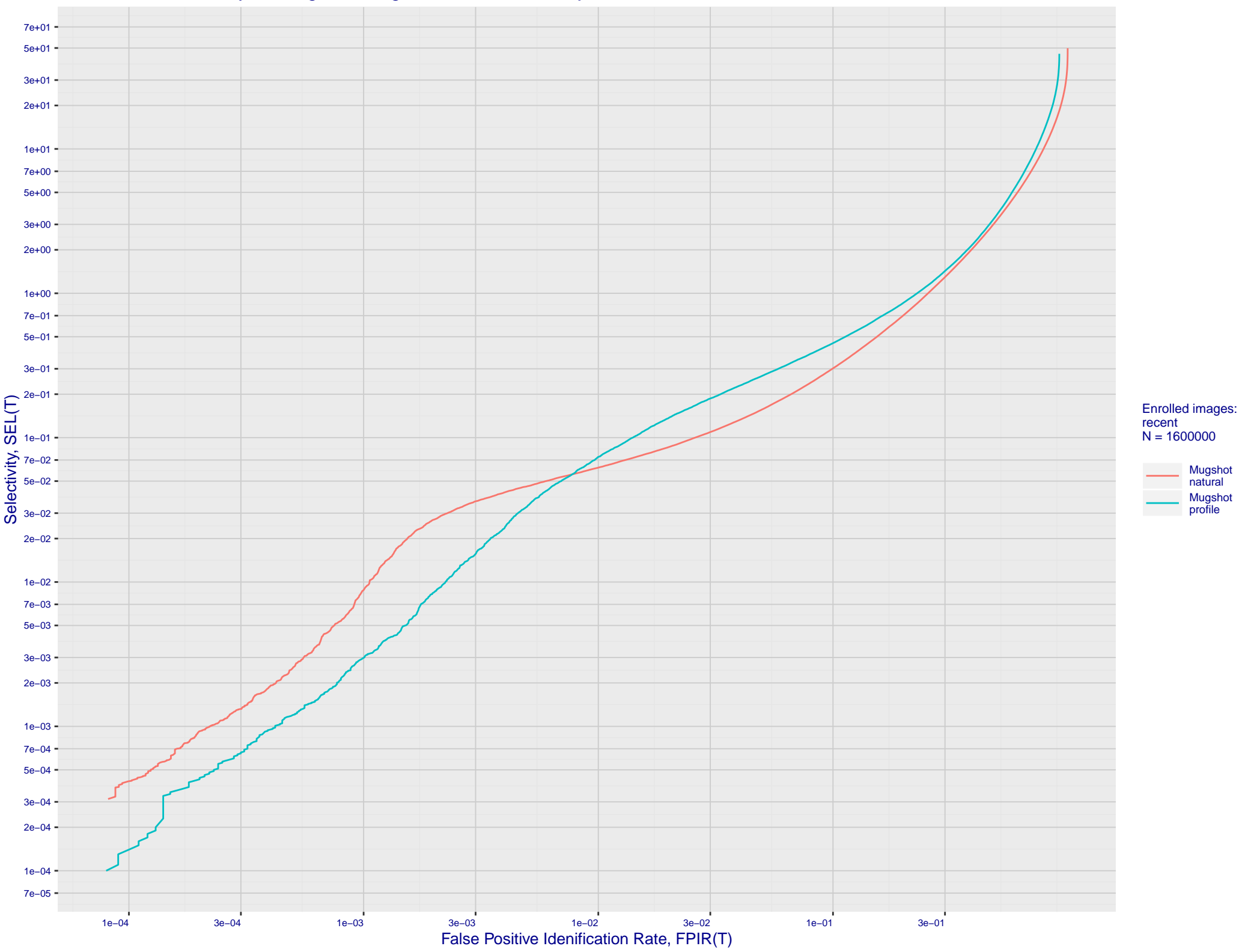
A: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



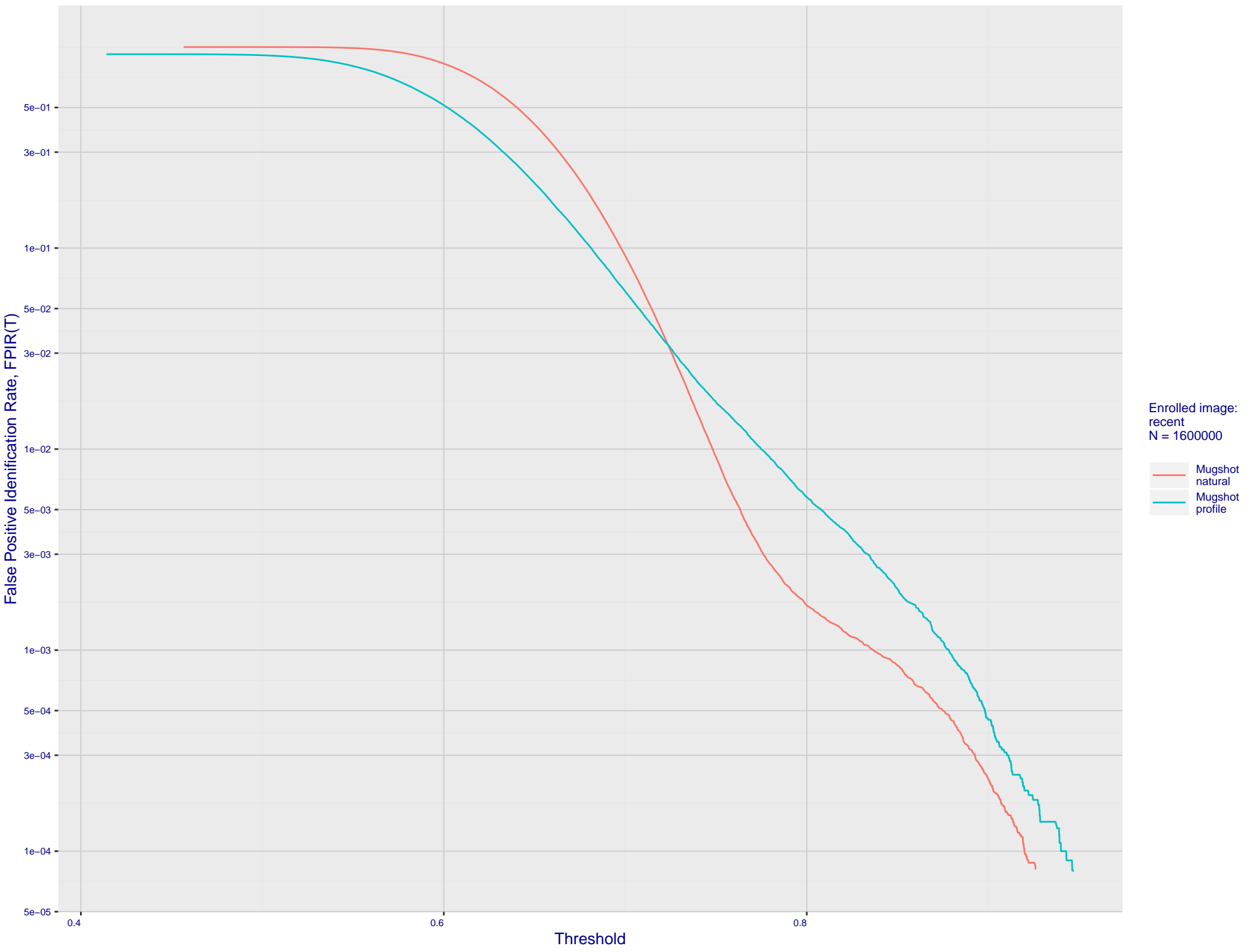
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



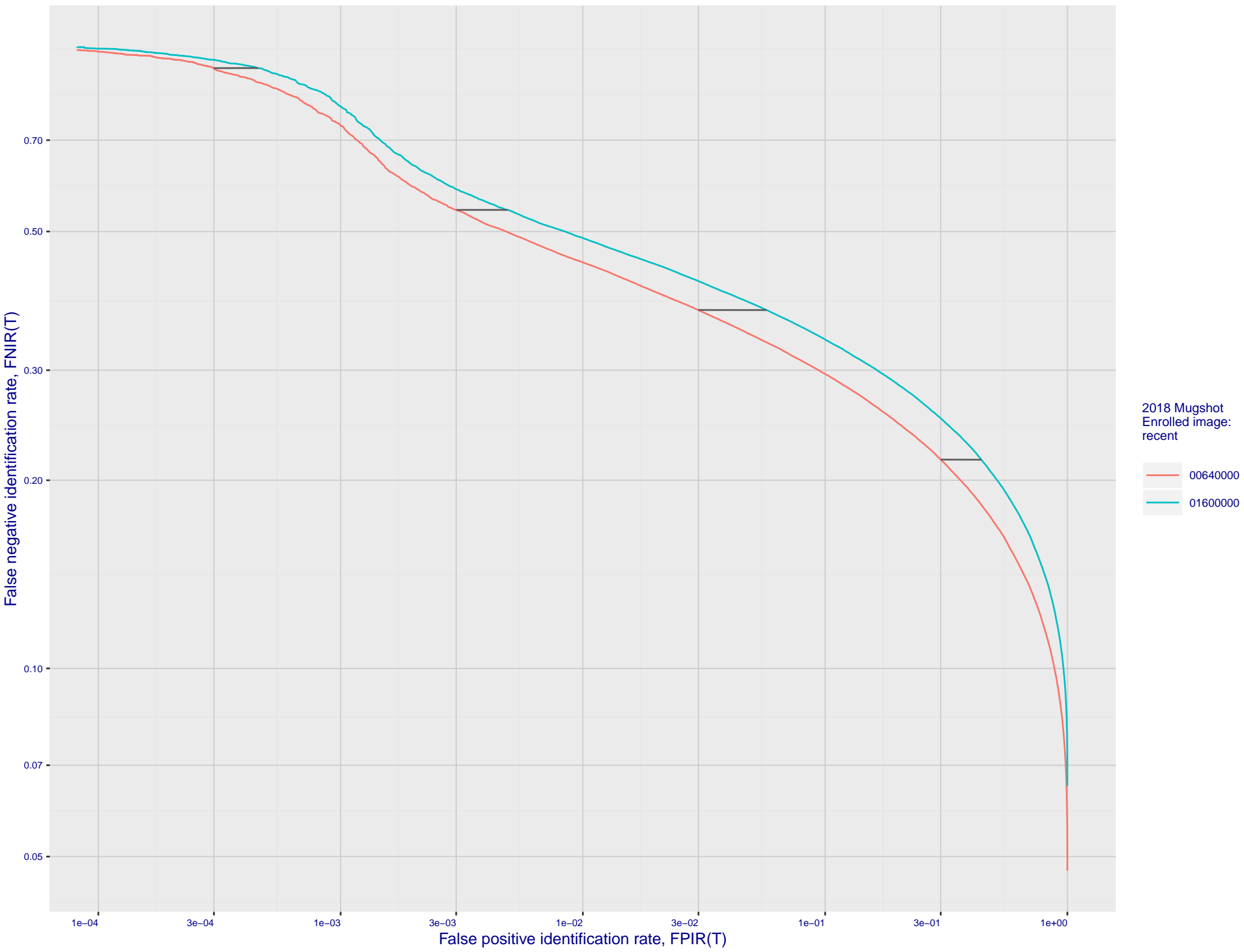
C: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



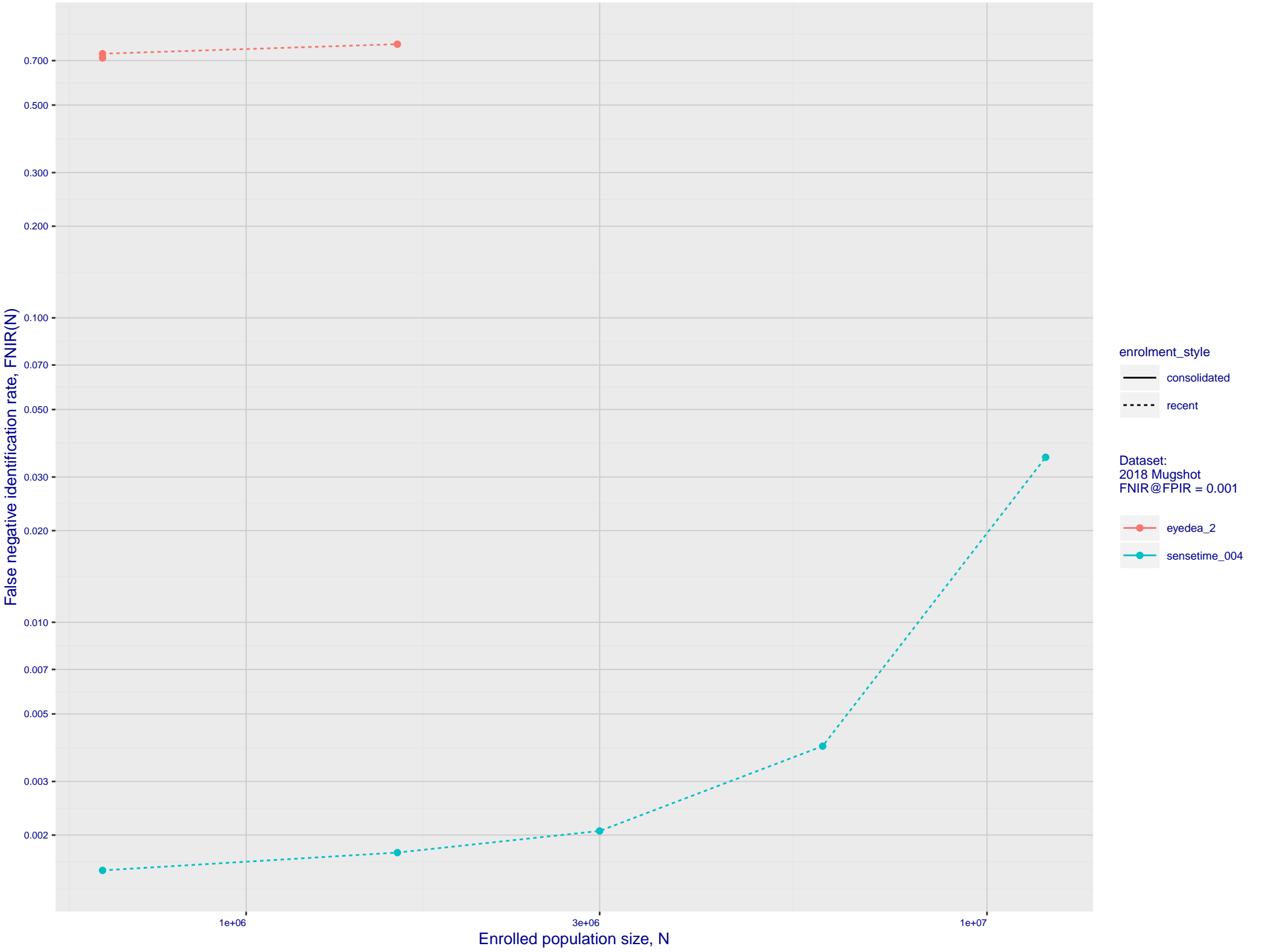
D: FPIR dependence on T by probe type for N = 1600000 subjects



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



F: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime\_004)



## G: Datasheet

Algorithm: eyedea\_2

Developer: Eyedea Recognition

Submission Date: 2018\_02\_16

Template size: 1036 bytes

Template time (2.5 percentile): 353 msec

Template time (median): 426 msec

Template time (97.5 percentile): 520 msec

Frontal mugshot investigation rank 225 ---  $\text{FNIR}(1600000, 0, 1) = 0.1979$  vs. lowest 0.0010 from sensetime\_004

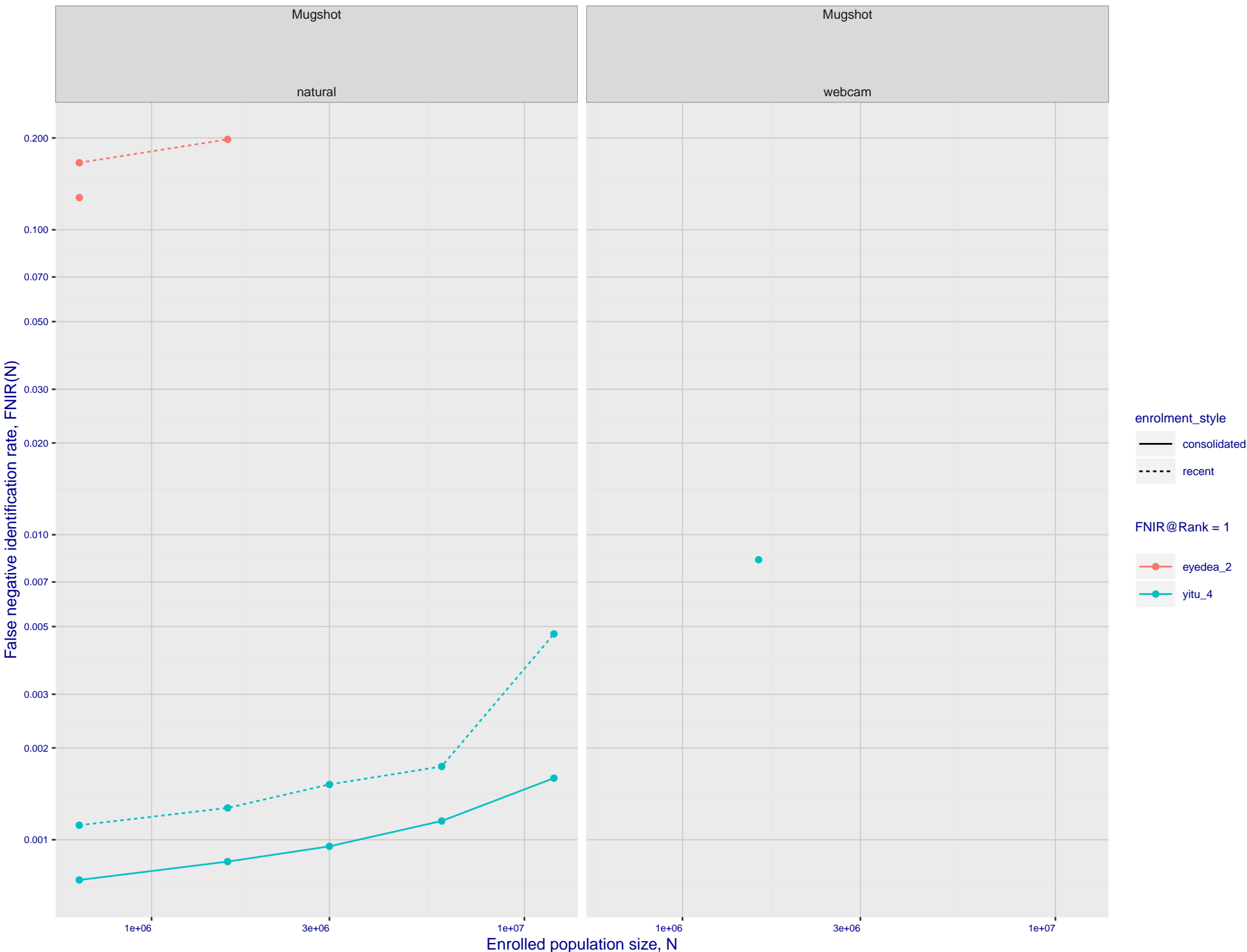
natural investigation rank 180 ---  $\text{FNIR}(1600000, 0, 1) = 0.7964$  vs. lowest 0.0492 from paravision\_005

natural investigation rank 180 ---  $\text{FNIR}(1600000, 0, 1) = 0.7964$  vs. lowest 0.0492 from paravision\_005

Frontal mugshot identification rank 228 ---  $\text{FNIR}(1600000, T, L+1) = 0.7926$  vs. lowest 0.0018 from sensetime\_004

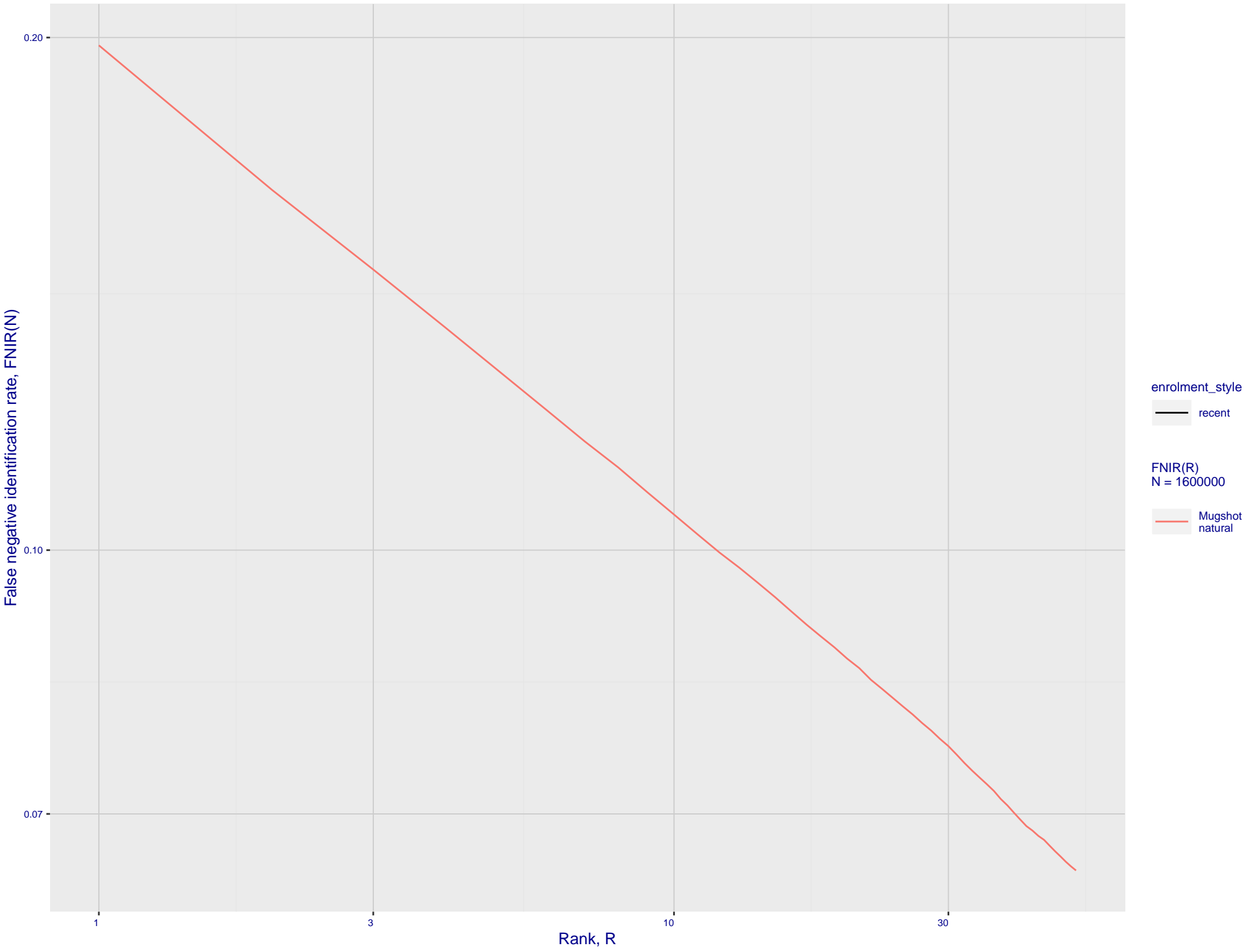
natural identification rank 134 ---  $\text{FNIR}(1600000, T, L+1) = 0.9990$  vs. lowest 0.1020 from sensetime\_004

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

