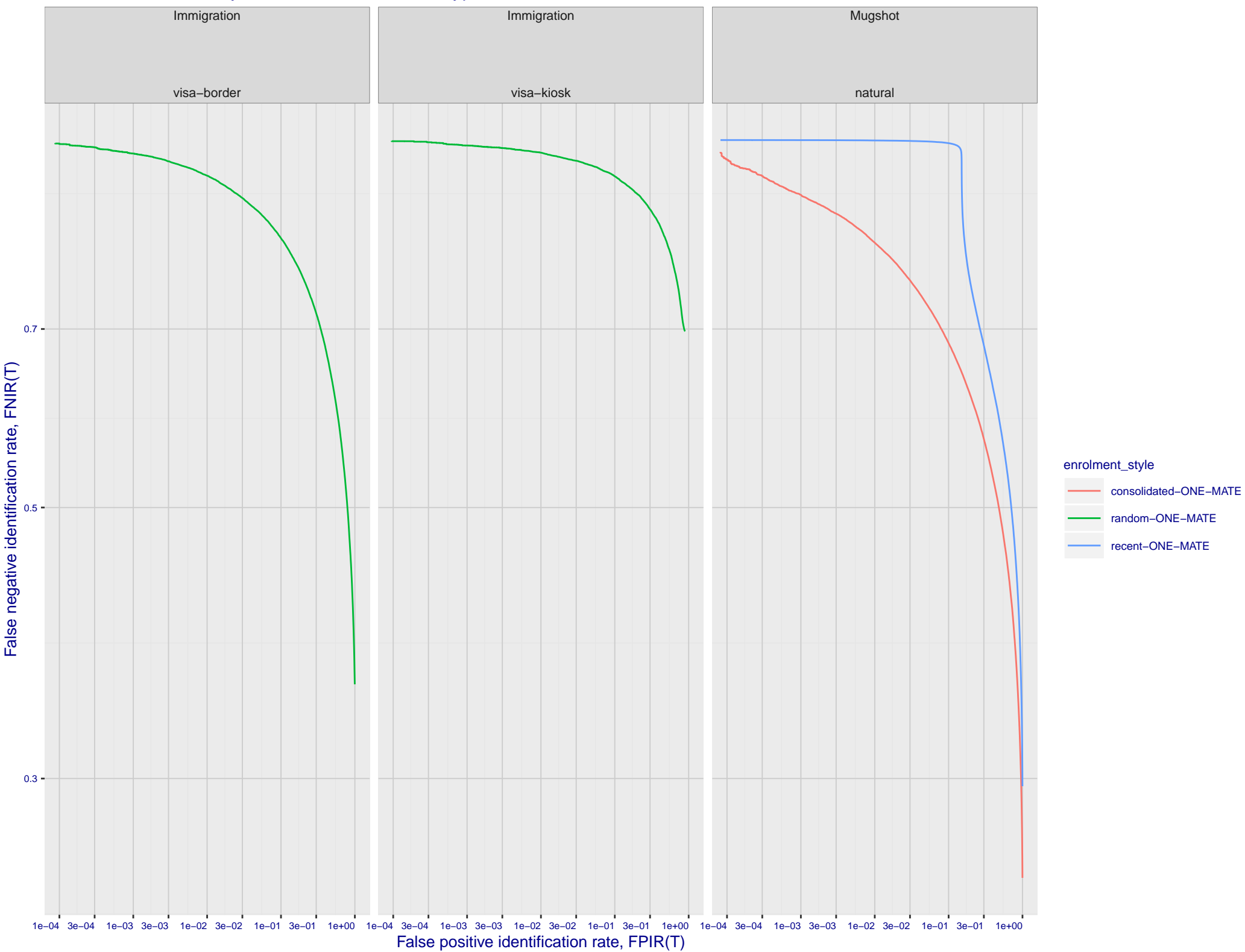
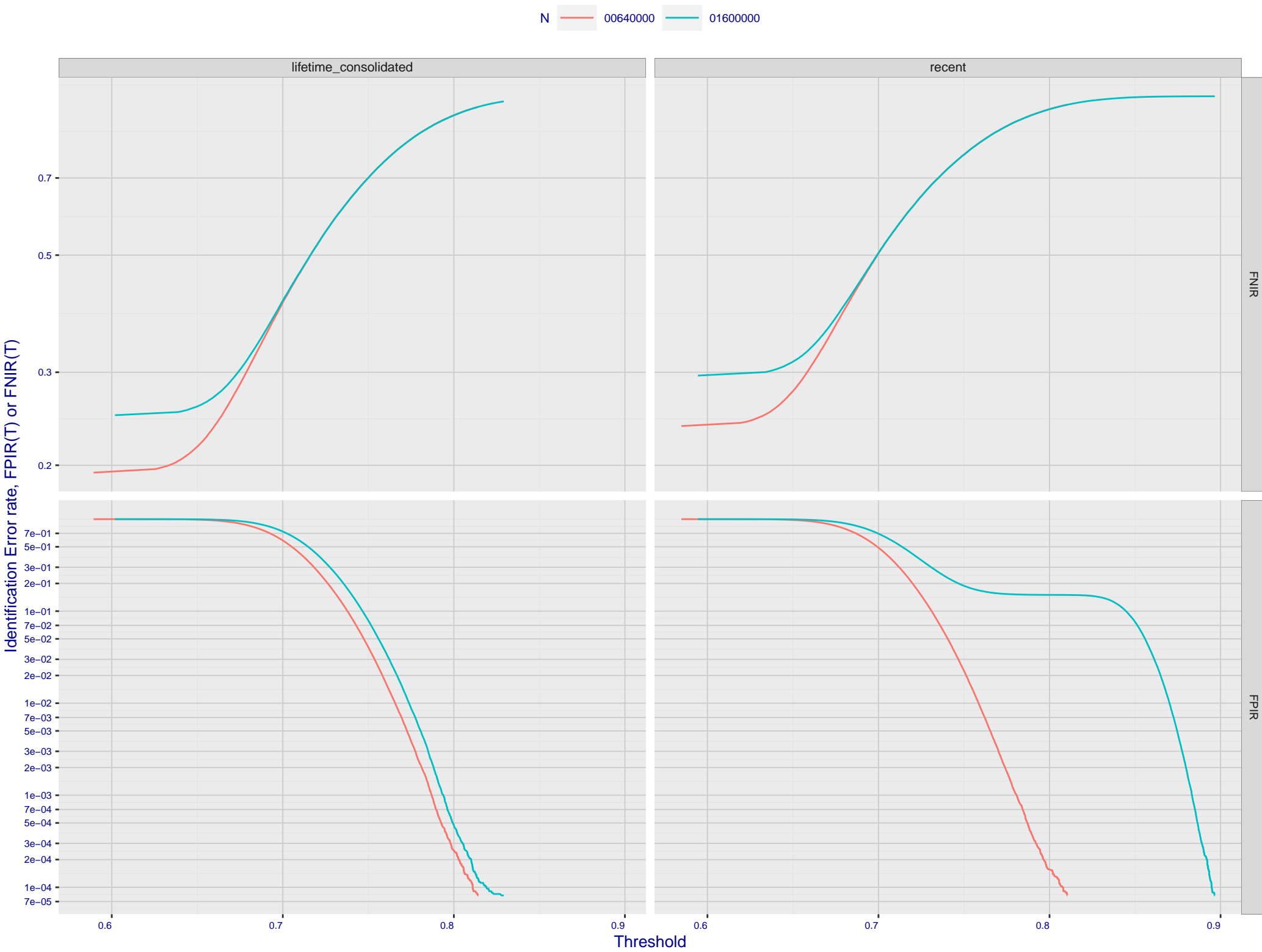


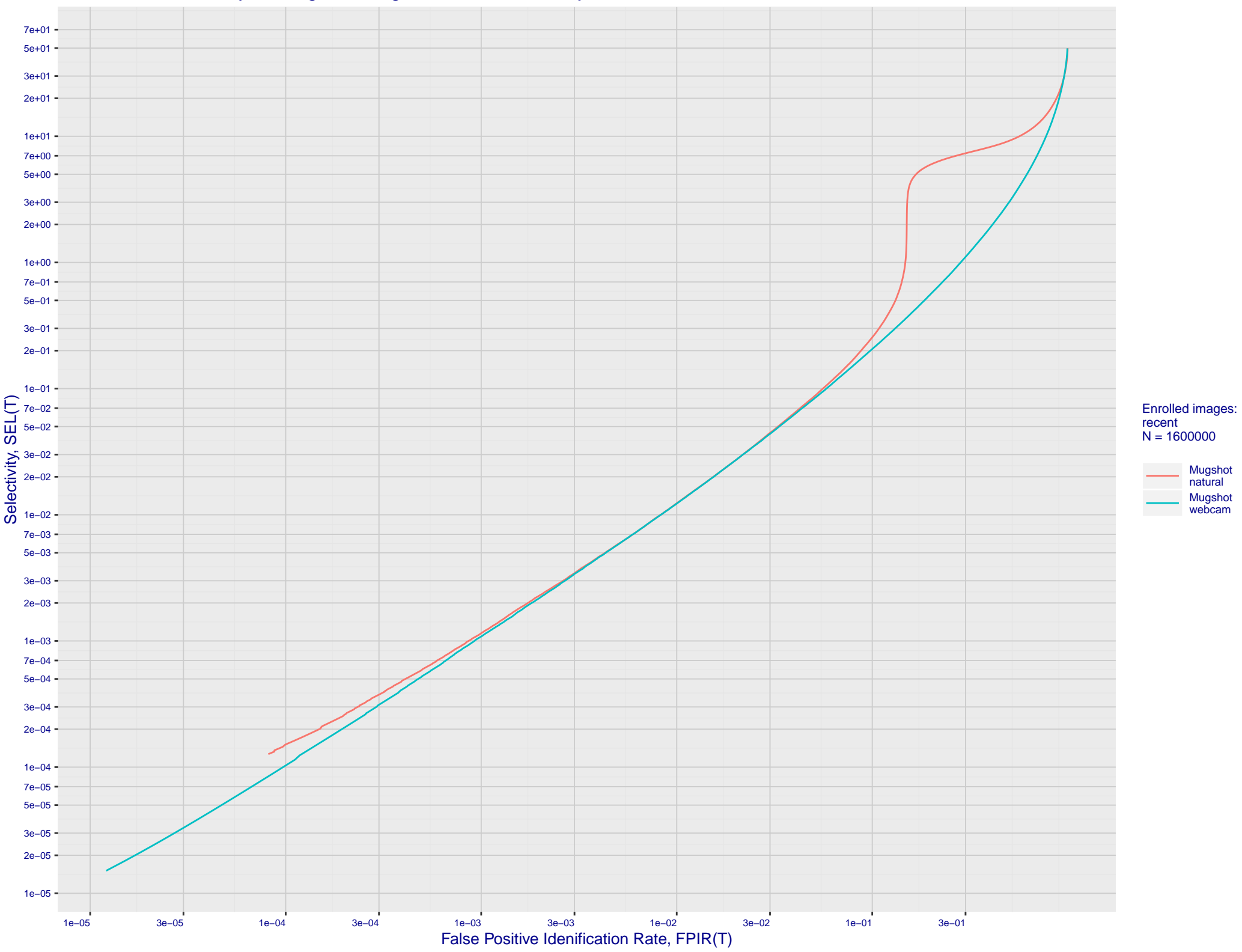
A: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



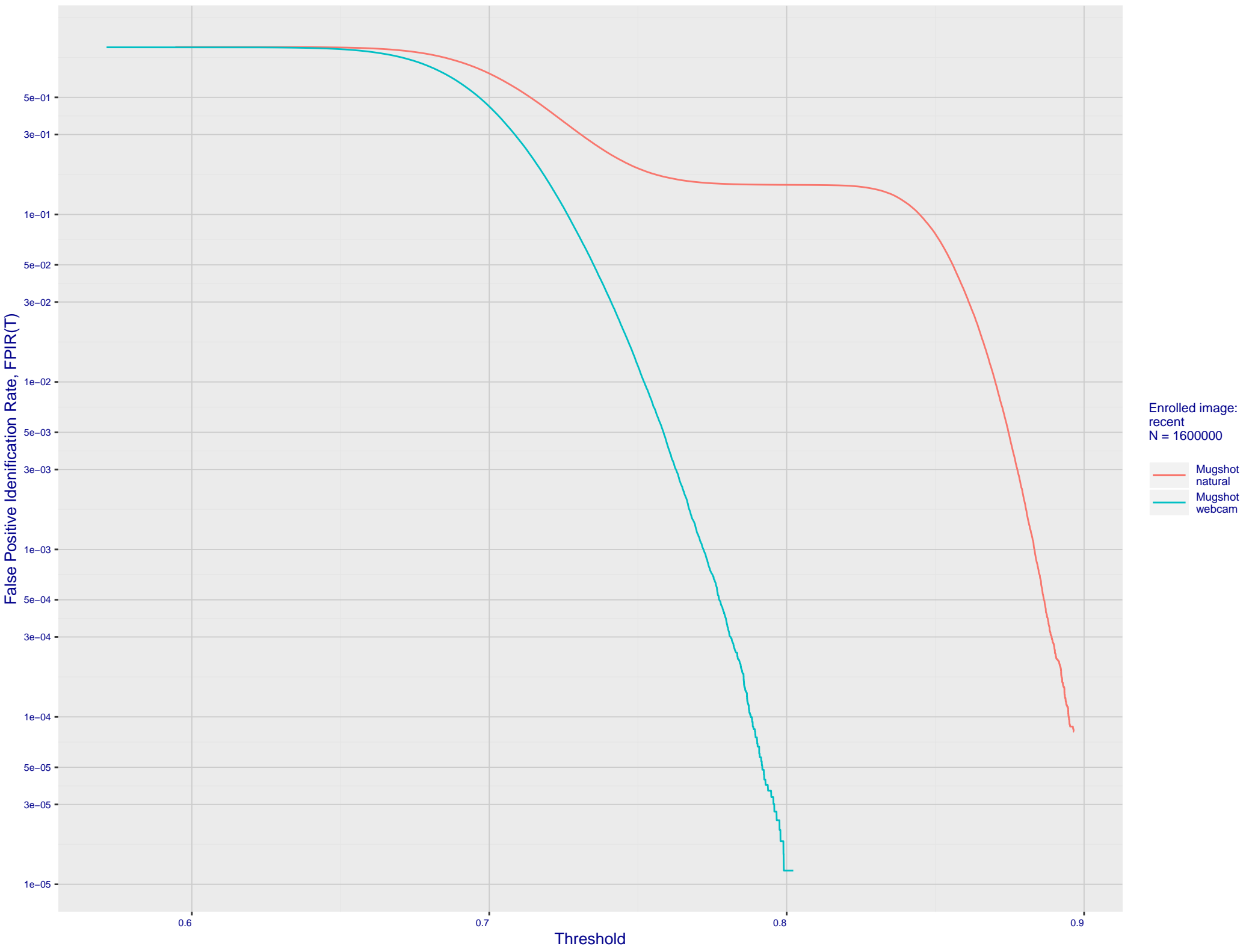
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



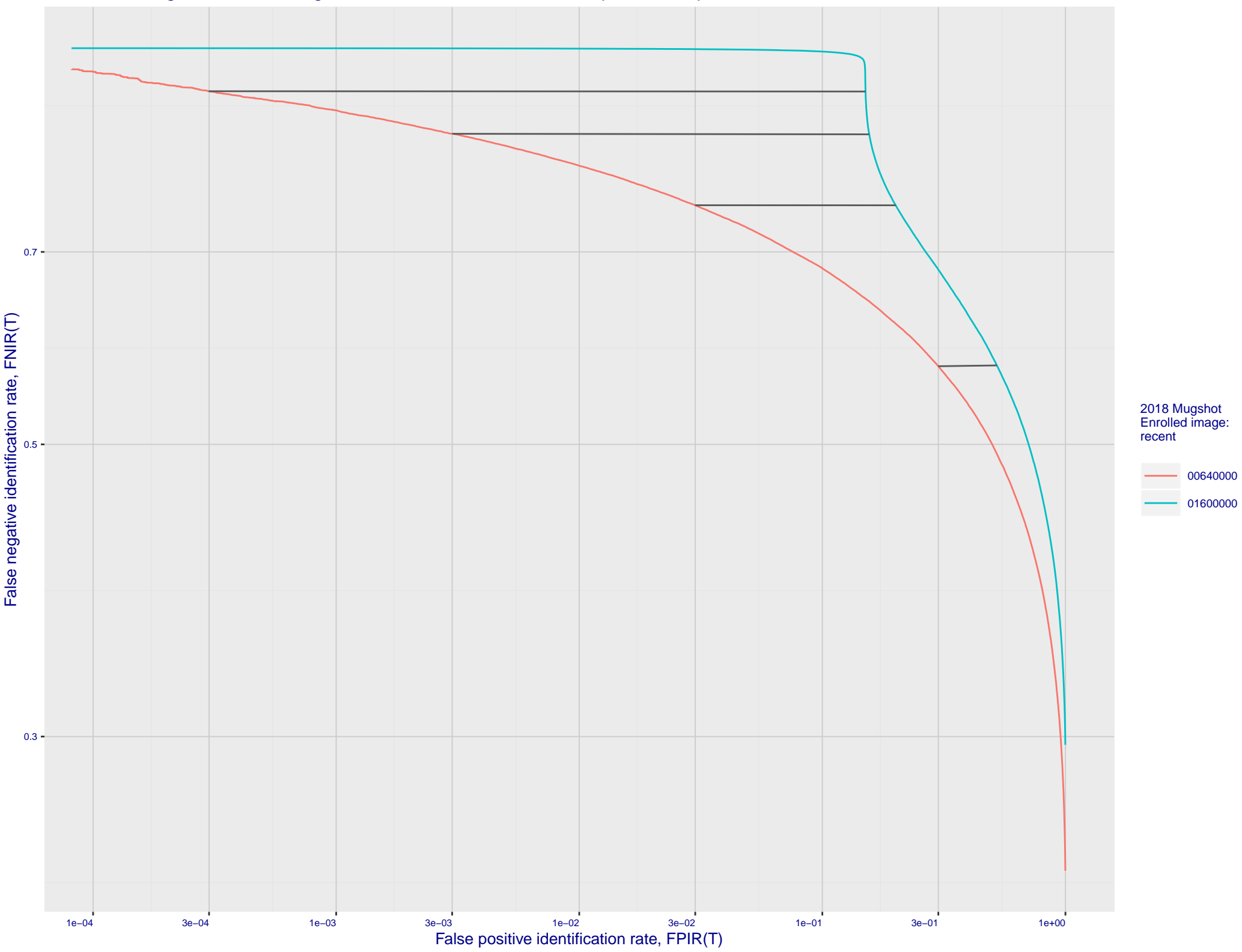
C: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



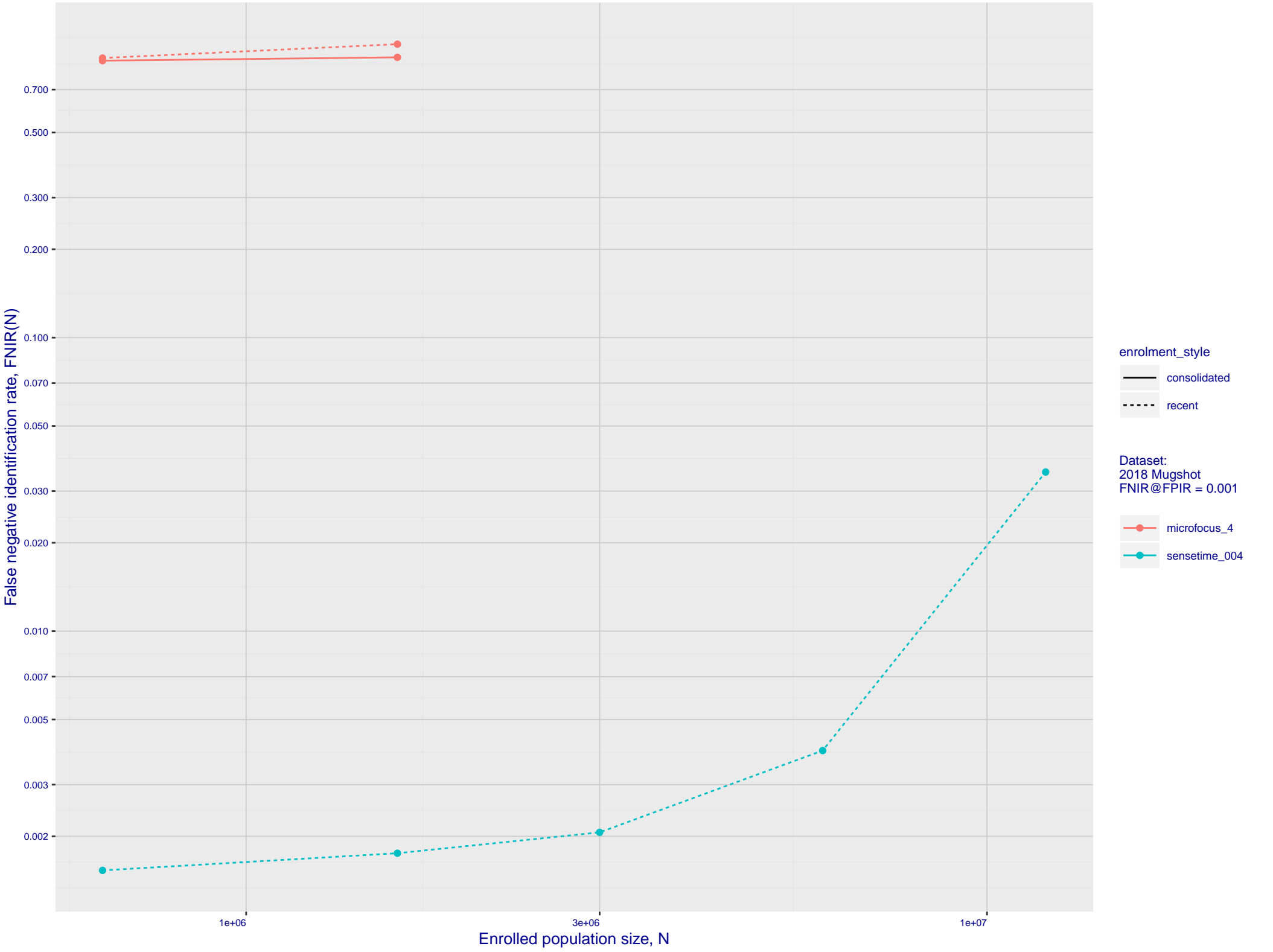
D: FPIR dependence on T by probe type for N = 1600000 subjects



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: microfocus\_4

Developer: MicroFocus

Submission Date: 2018\_06\_22

Template size: 256 bytes

Template time (2.5 percentile): 228 msec

Template time (median): 267 msec

Template time (97.5 percentile): 315 msec

Frontal mugshot investigation rank 245 --- FNIR(1600000, 0, 1) = 0.5763 vs. lowest 0.0010 from sensetime\_004

natural investigation rank 209 --- FNIR(1600000, 0, 1) = 0.7577 vs. lowest 0.0067 from sensetime\_003

natural investigation rank 94 --- FNIR(1600000, 0, 1) = 0.7006 vs. lowest 0.0014 from visionlabs\_009

natural investigation rank 95 --- FNIR(1600000, 0, 1) = 0.9035 vs. lowest 0.0694 from cib\_000

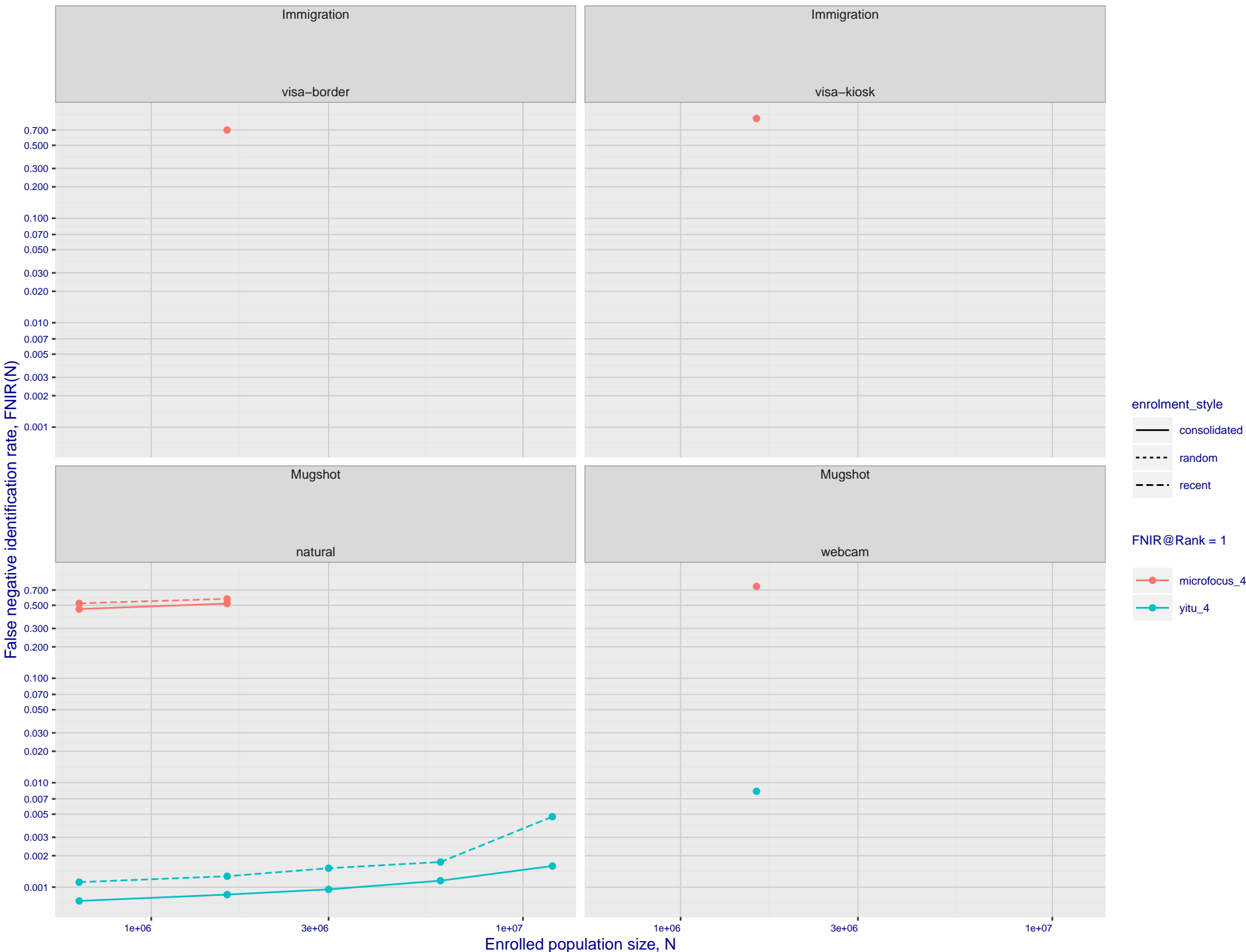
Frontal mugshot identification rank 248 --- FNIR(1600000, T, L+1) = 0.9994 vs. lowest 0.0018 from sensetime\_004

natural identification rank 203 --- FNIR(1600000, T, L+1) = 0.9747 vs. lowest 0.0122 from sensetime\_003

natural identification rank 88 --- FNIR(1600000, T, L+1) = 0.9744 vs. lowest 0.0059 from sensetime\_004

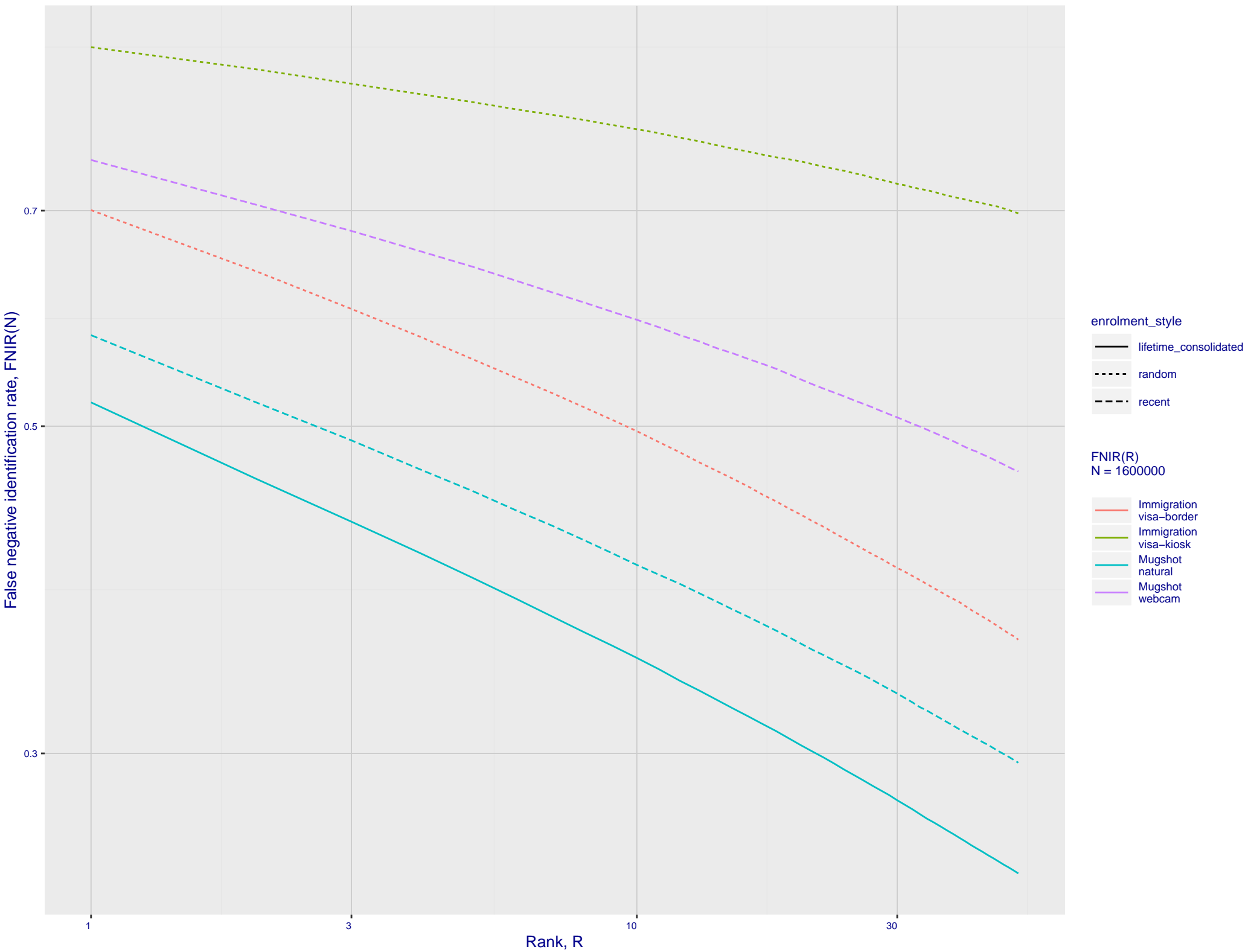
natural identification rank 83 --- FNIR(1600000, T, L+1) = 0.9893 vs. lowest 0.1129 from visionlabs\_009

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

