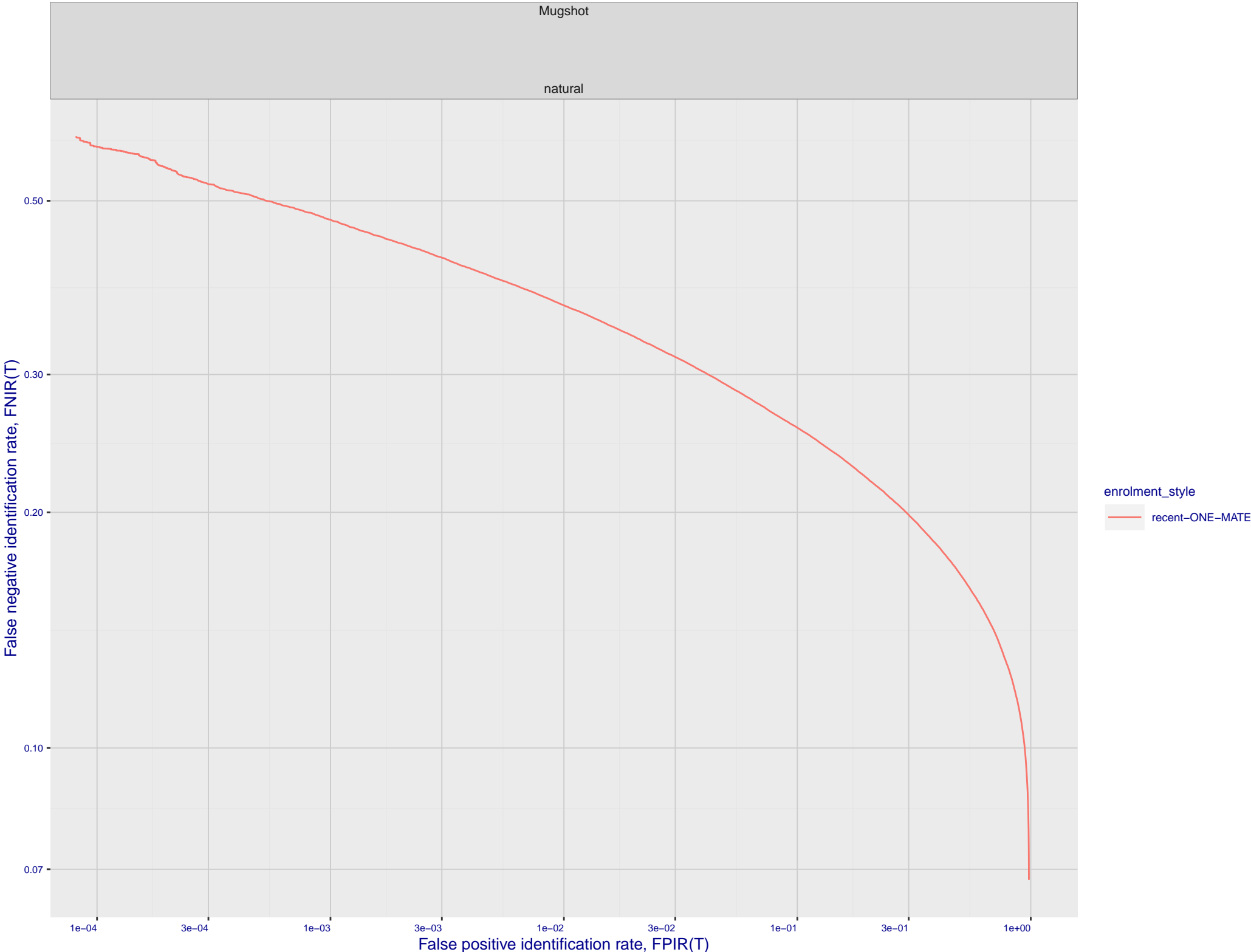
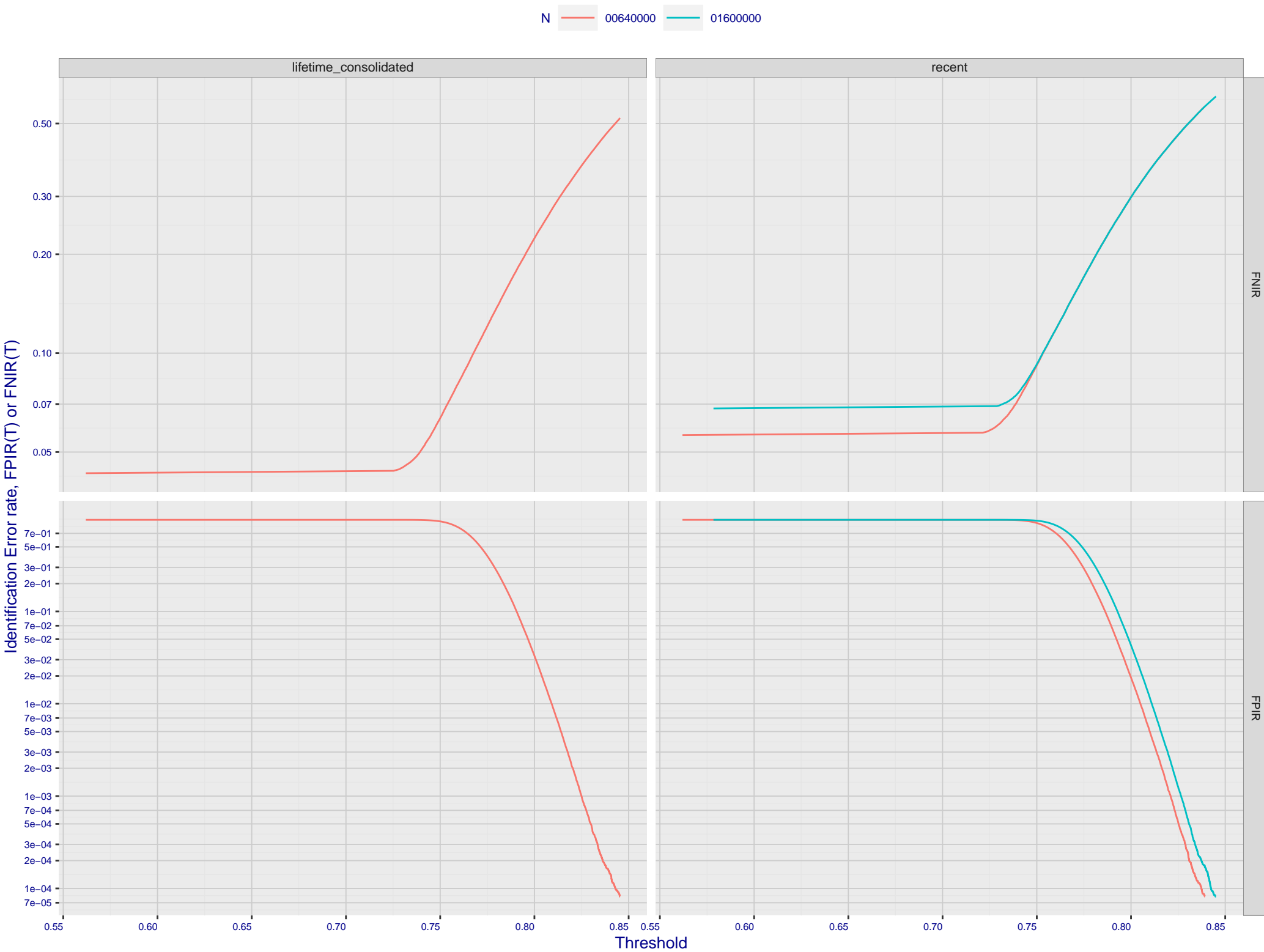


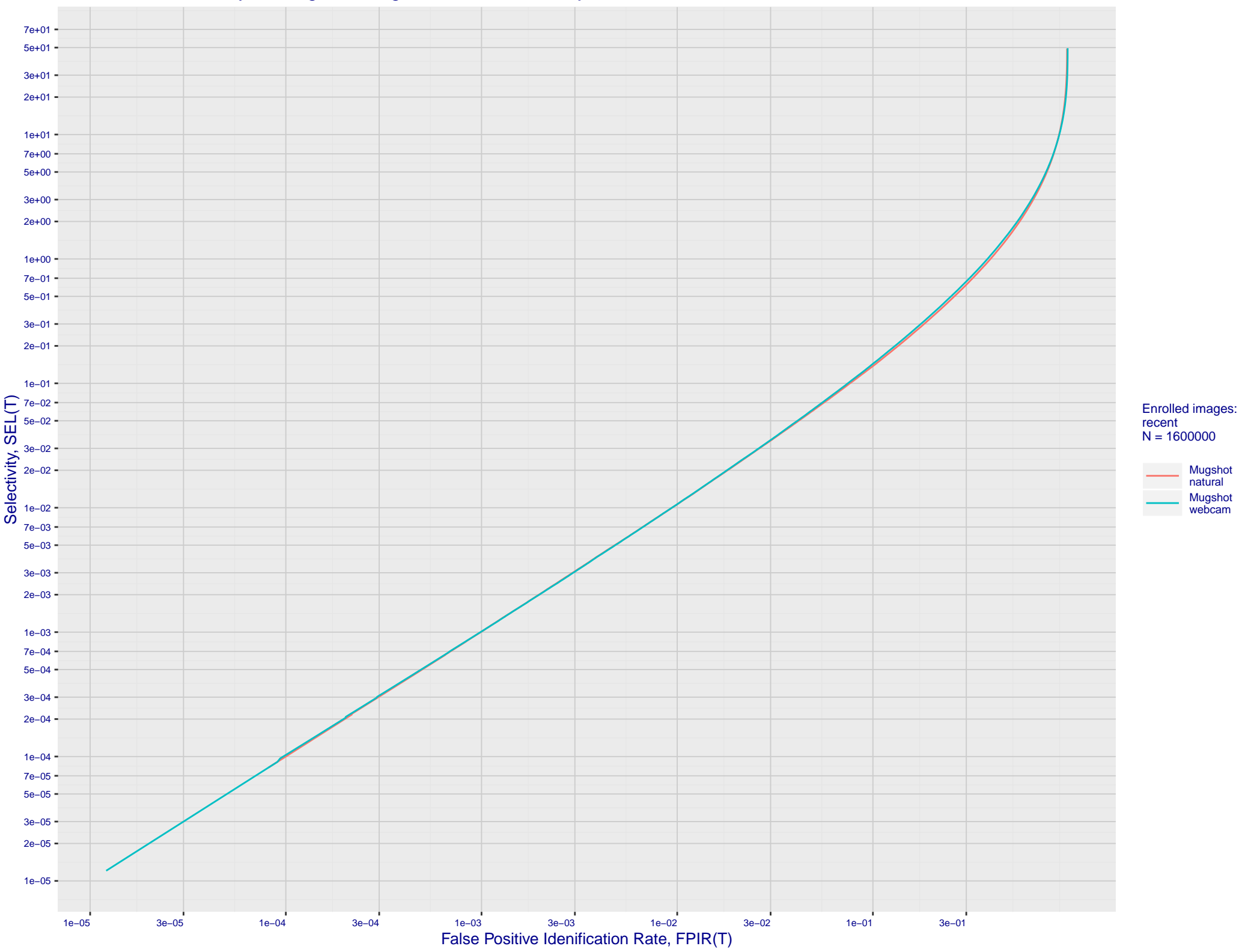
A: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



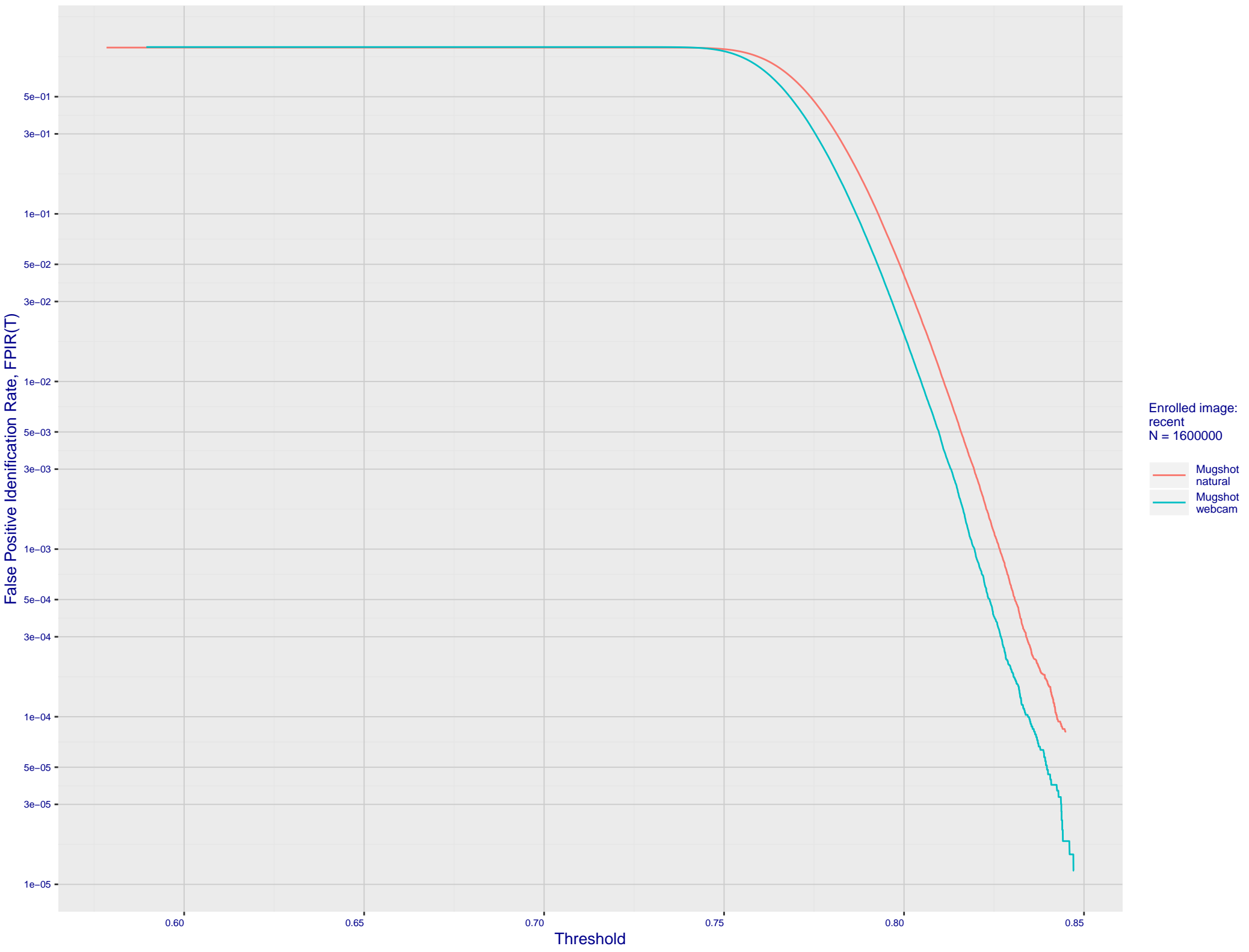
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



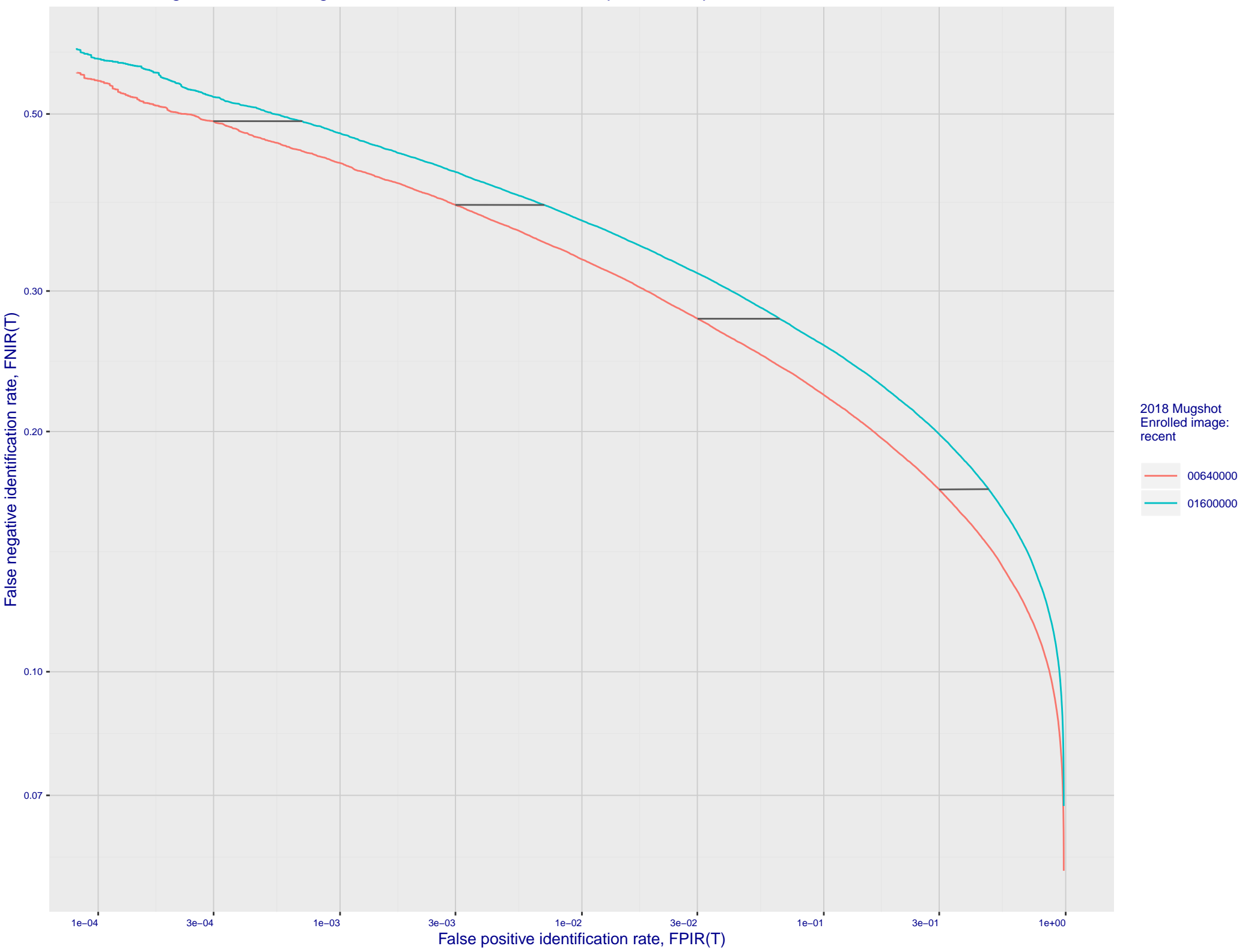
C: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



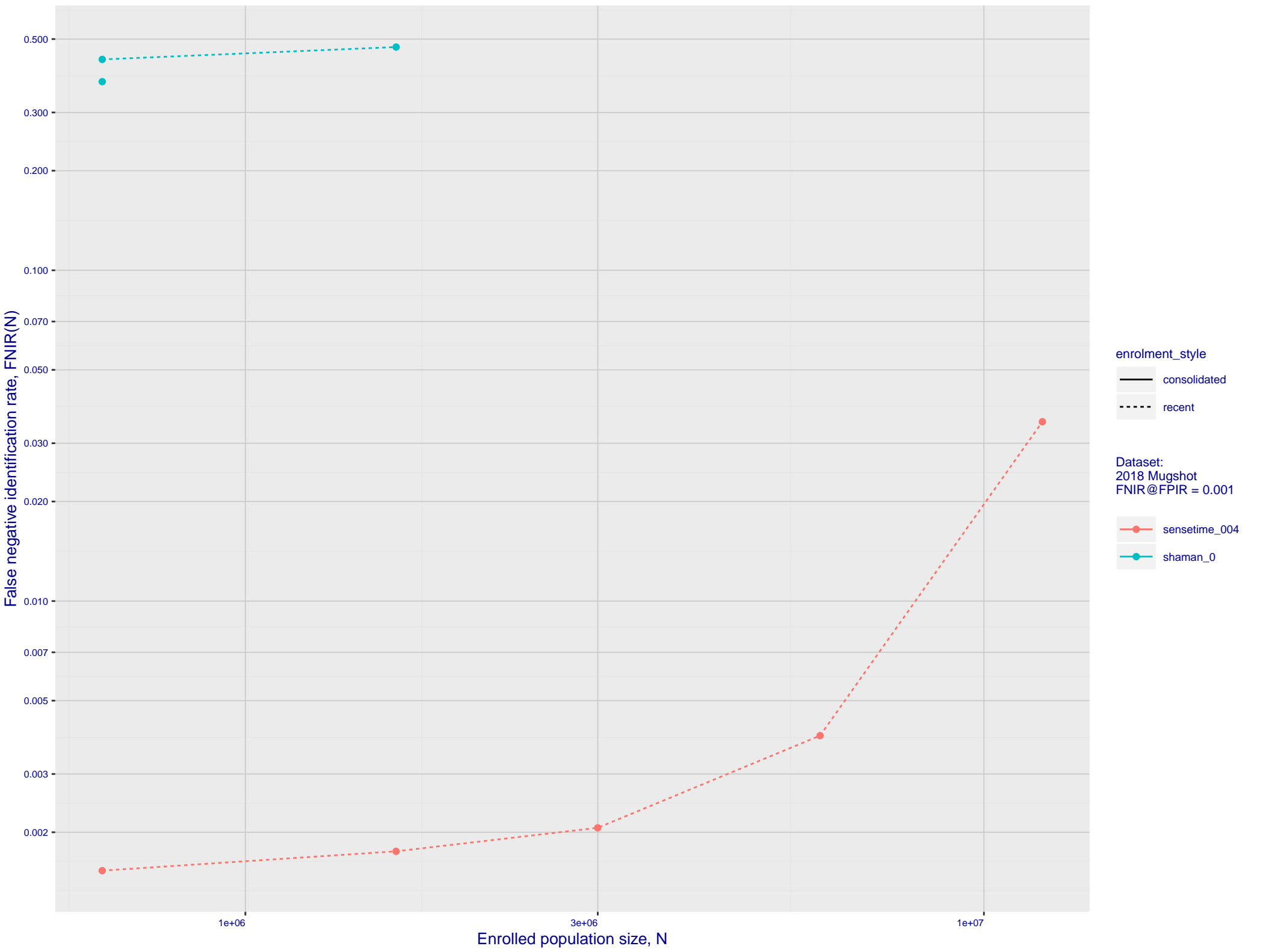
D: FPIR dependence on T by probe type for N = 1600000 subjects



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: shaman_0

Developer: Shaman Software

Submission Date: 2018_02_12

Template size: 4096 bytes

Template time (2.5 percentile): 544 msec

Template time (median): 546 msec

Template time (97.5 percentile): 570 msec

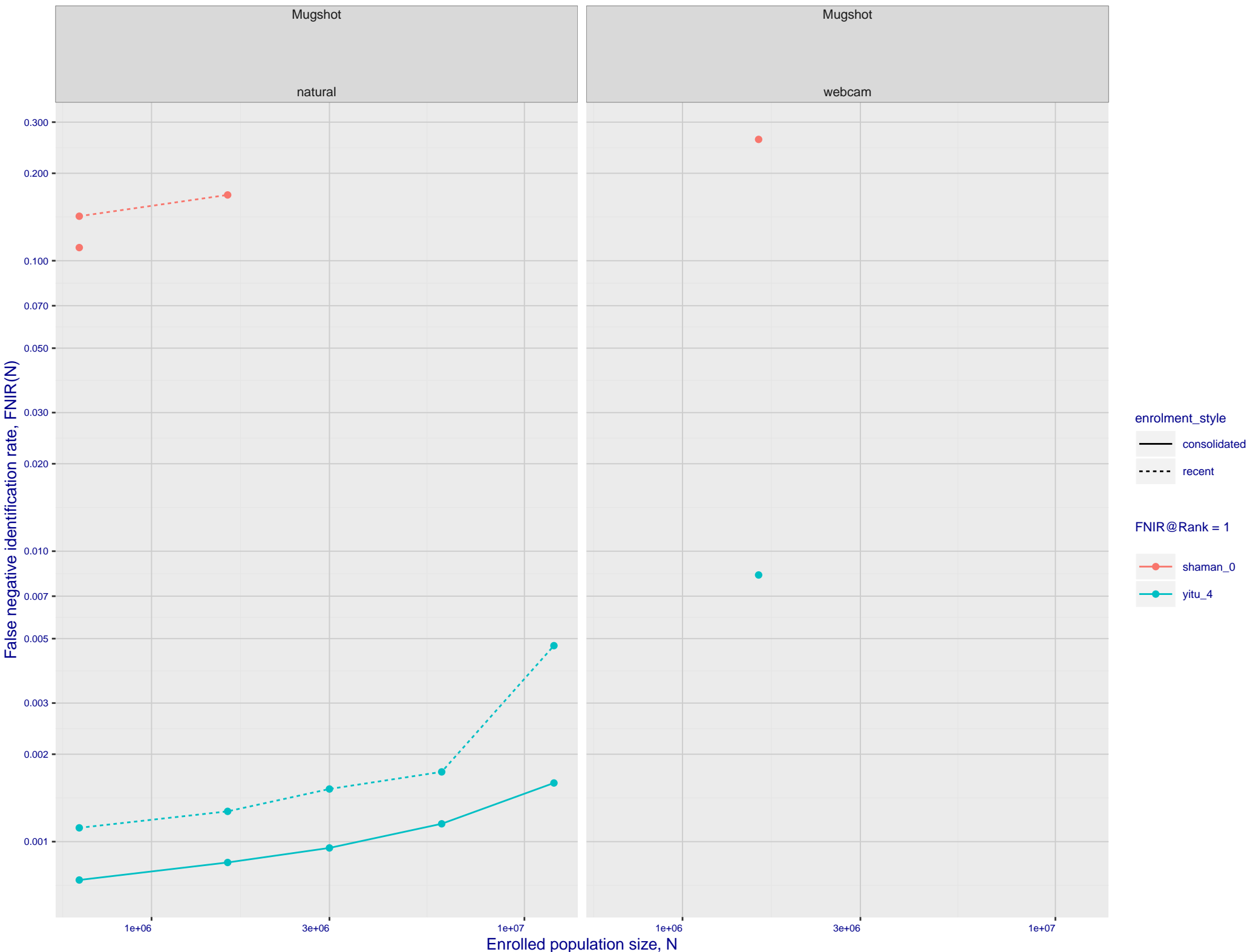
Frontal mugshot investigation rank 217 -- $\text{FNIR}(1600000, 0, 1) = 0.1685$ vs. lowest 0.0010 from sensetime_004

natural investigation rank 185 -- $\text{FNIR}(1600000, 0, 1) = 0.2617$ vs. lowest 0.0067 from sensetime_003

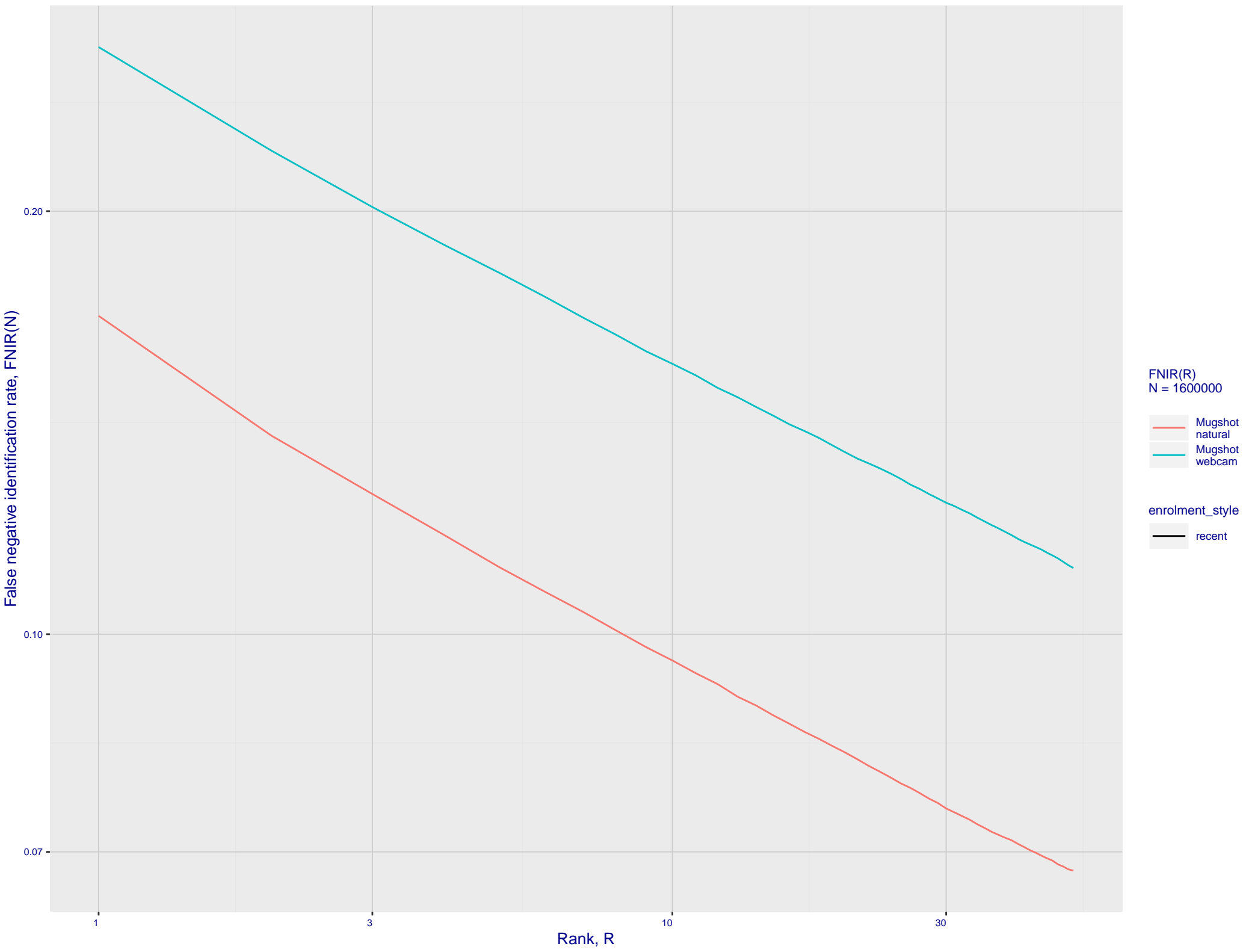
Frontal mugshot identification rank 202 -- $\text{FNIR}(1600000, T, L+1) = 0.4730$ vs. lowest 0.0018 from sensetime_004

natural identification rank 177 -- $\text{FNIR}(1600000, T, L+1) = 0.6211$ vs. lowest 0.0122 from sensetime_003

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

