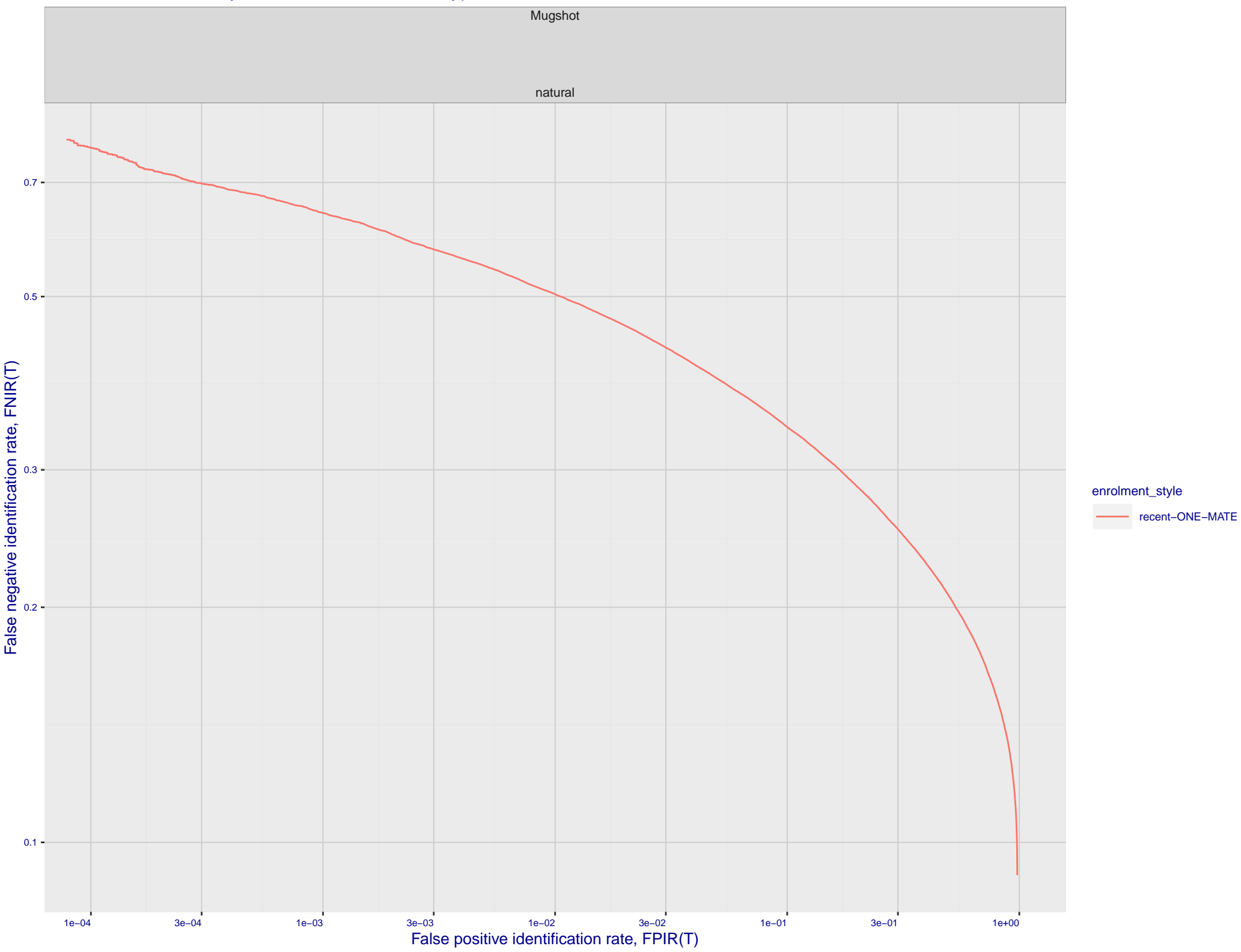
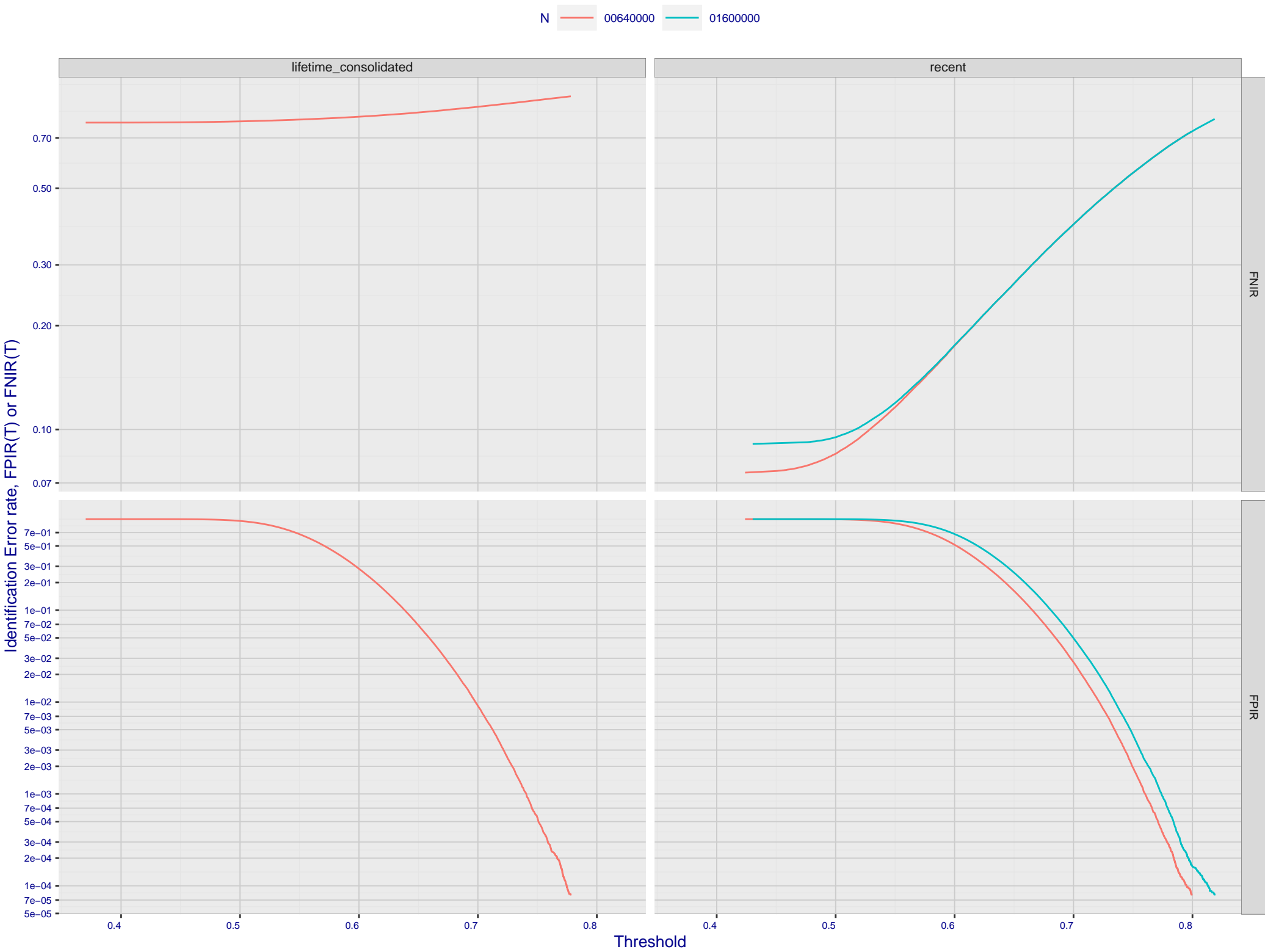


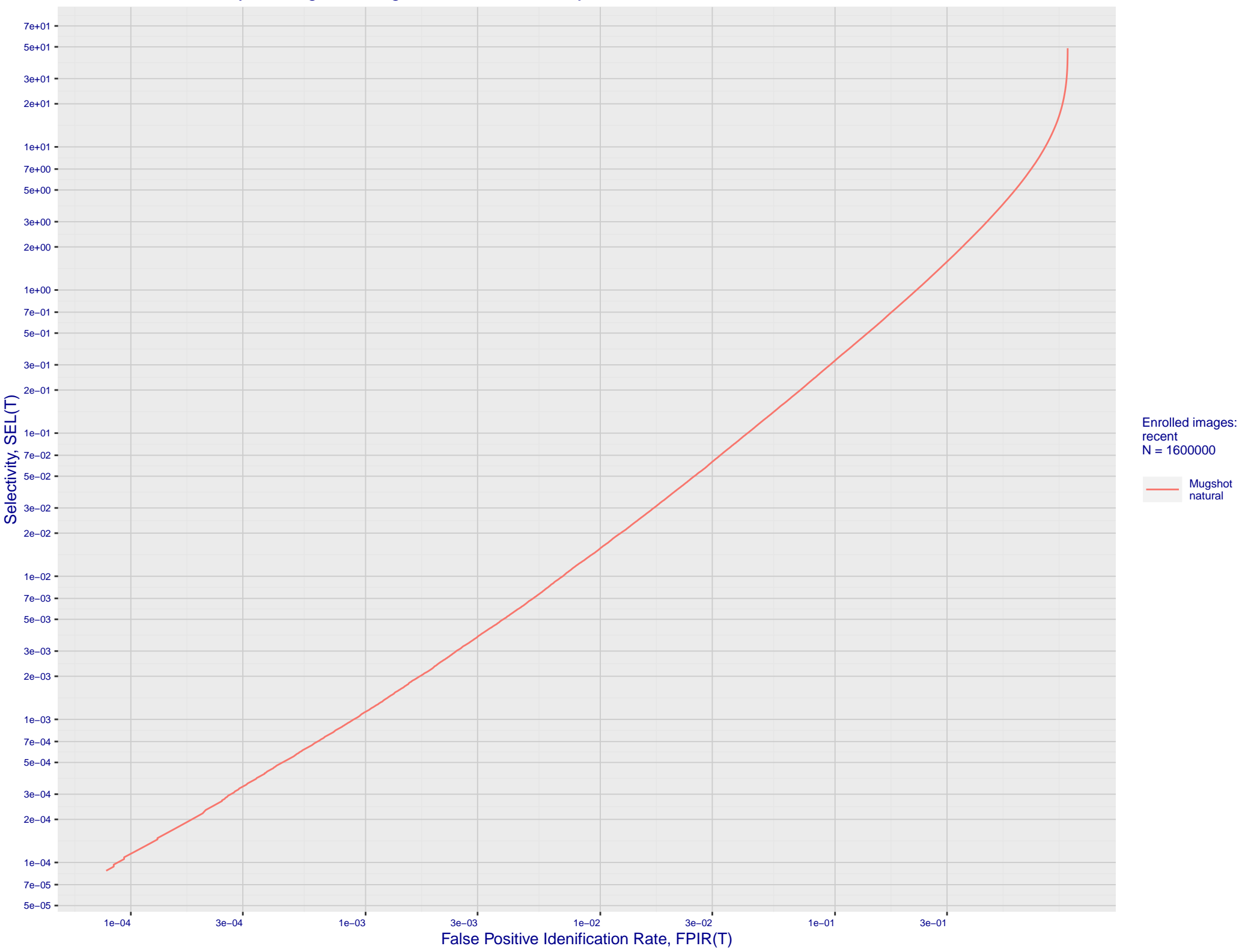
A: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



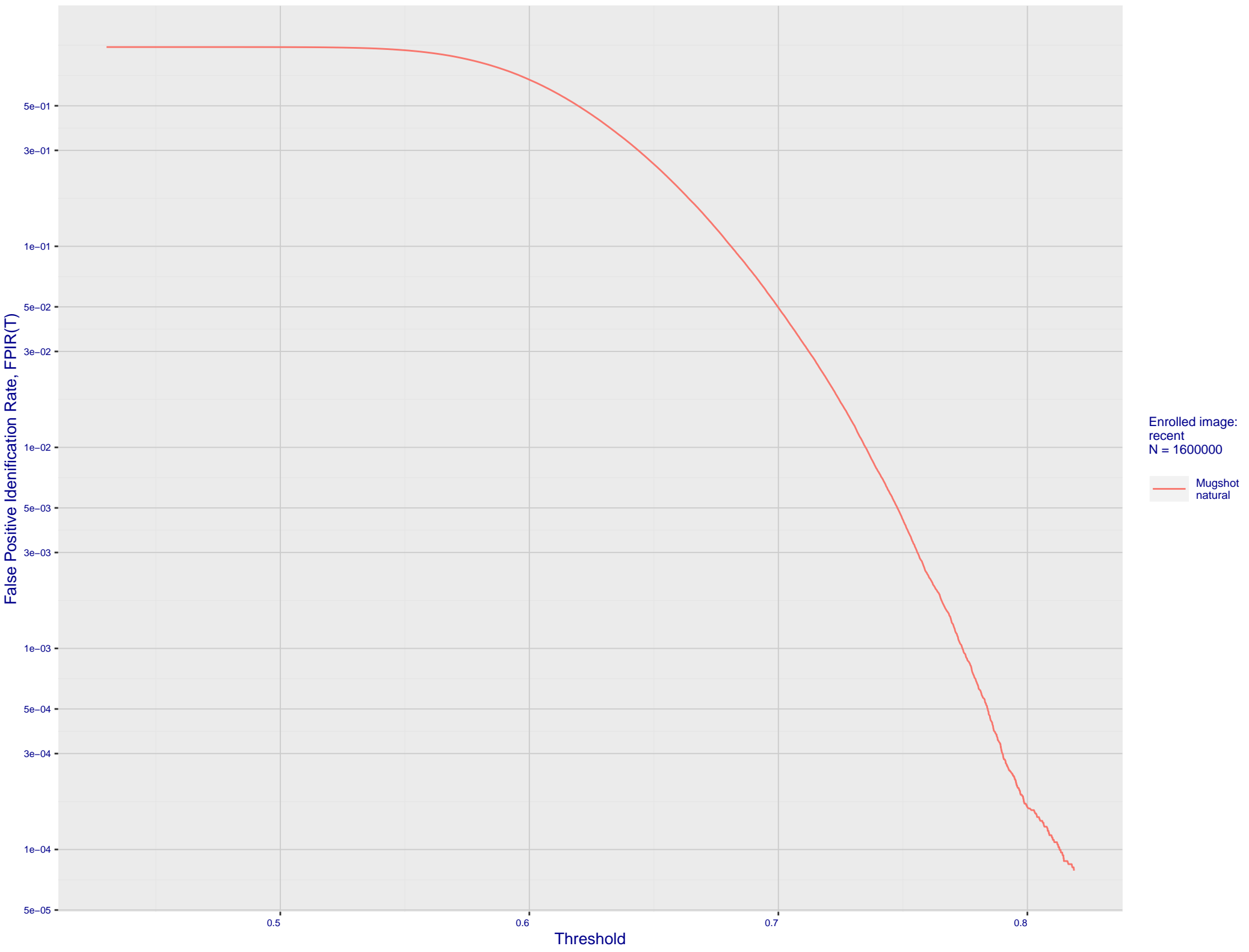
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



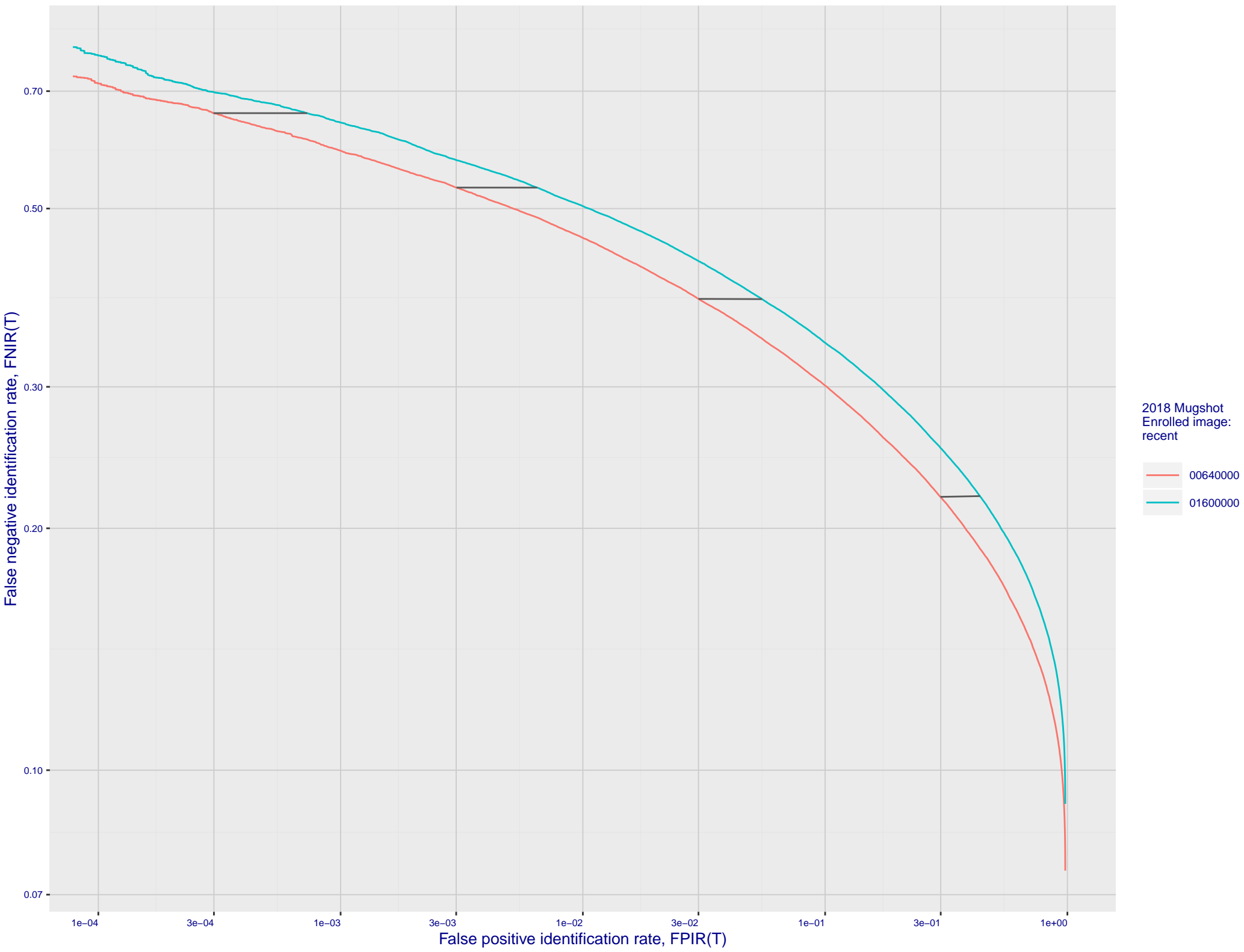
C: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



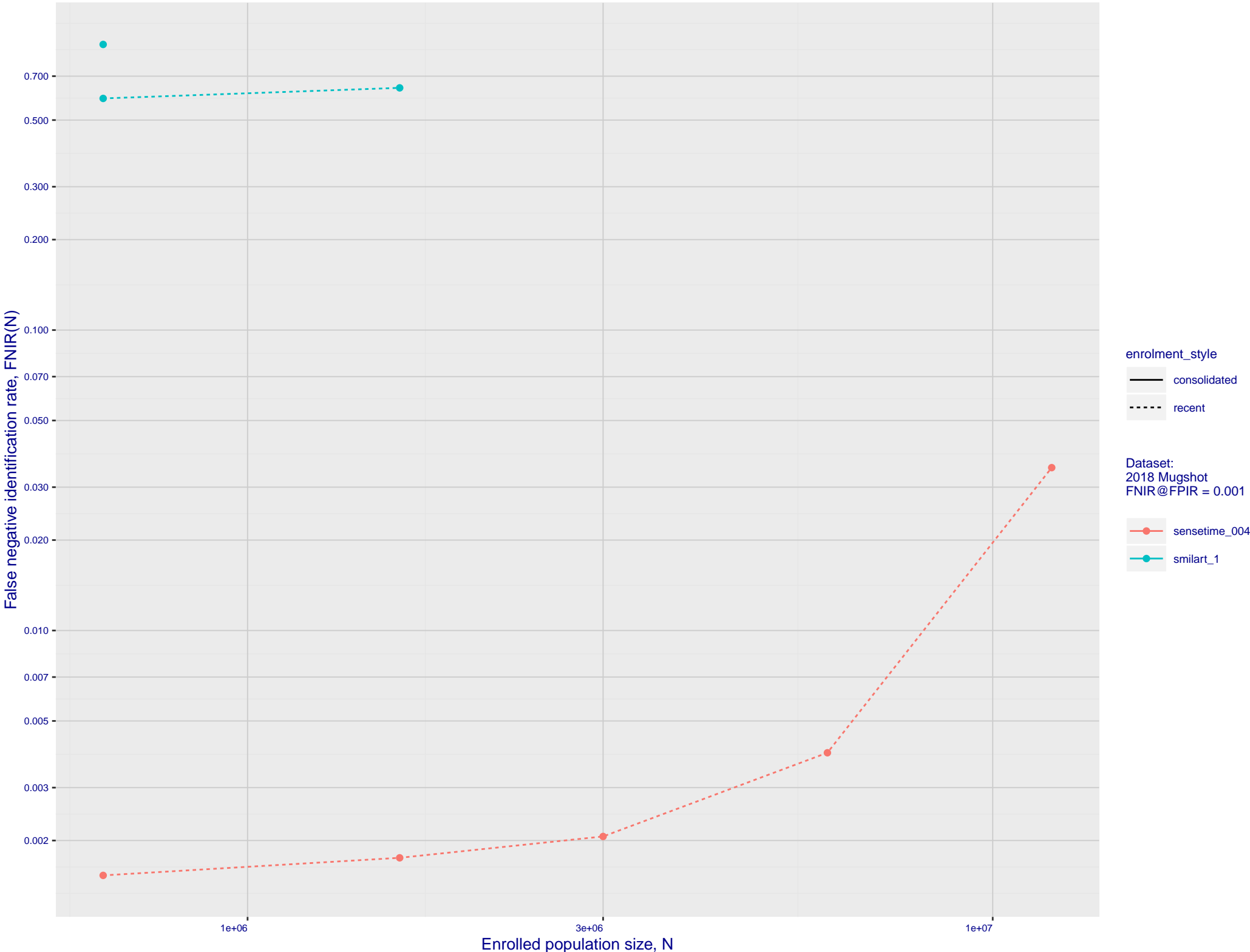
D: FPIR dependence on T by probe type for N = 1600000 subjects



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: smilart_1

Developer: Smilart

Submission Date: 2018_02_15

Template size: 1024 bytes

Template time (2.5 percentile): 650 msec

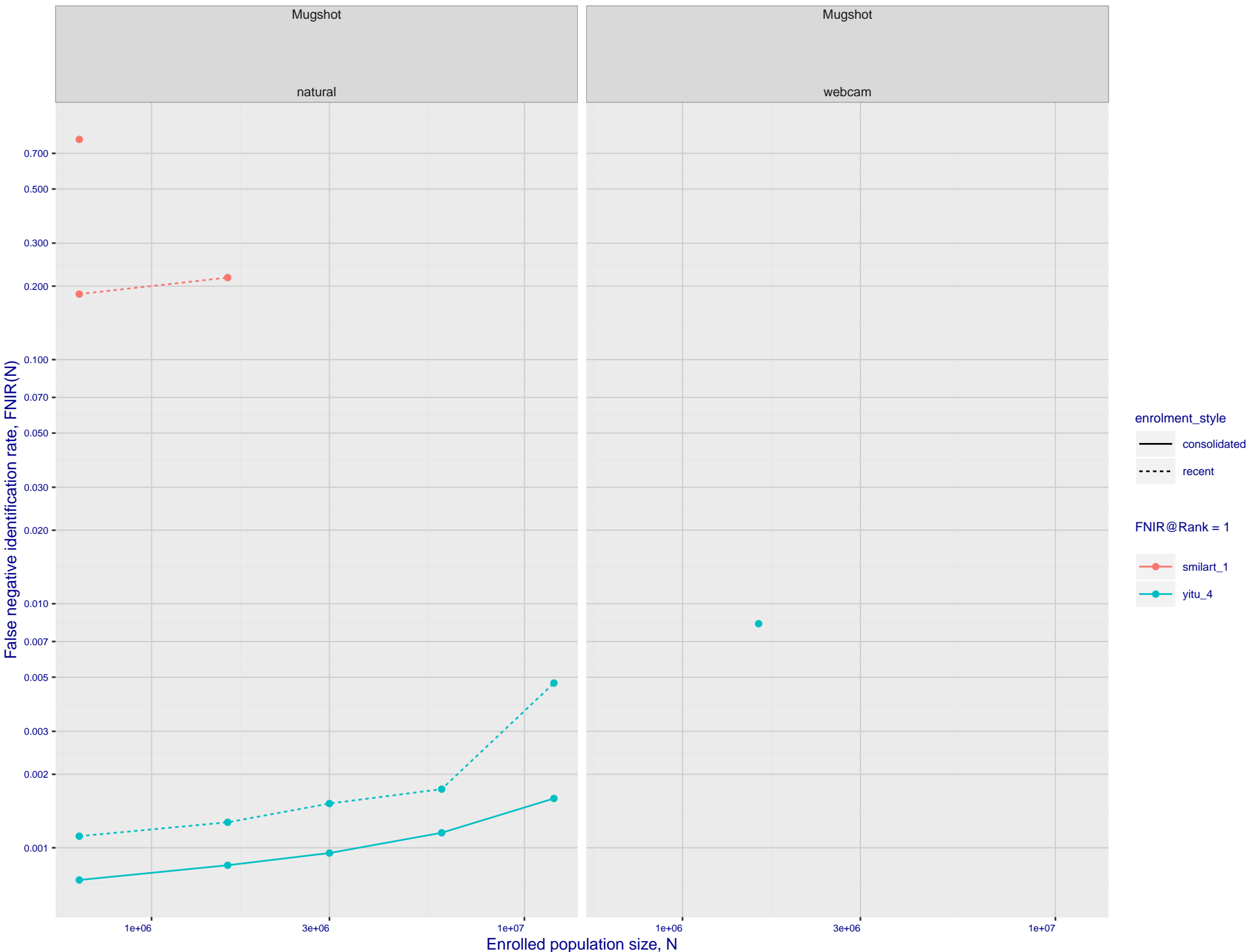
Template time (median): 658 msec

Template time (97.5 percentile): 719 msec

Frontal mugshot investigation rank 227 -- FNIR(1600000, 0, 1) = 0.2167 vs. lowest 0.0010 from sensetime_004

Frontal mugshot identification rank 222 -- FNIR(1600000, T, L+1) = 0.6400 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

False negative identification rate, FNIR(N)

0.2

0.1

1

3

Rank, R

10

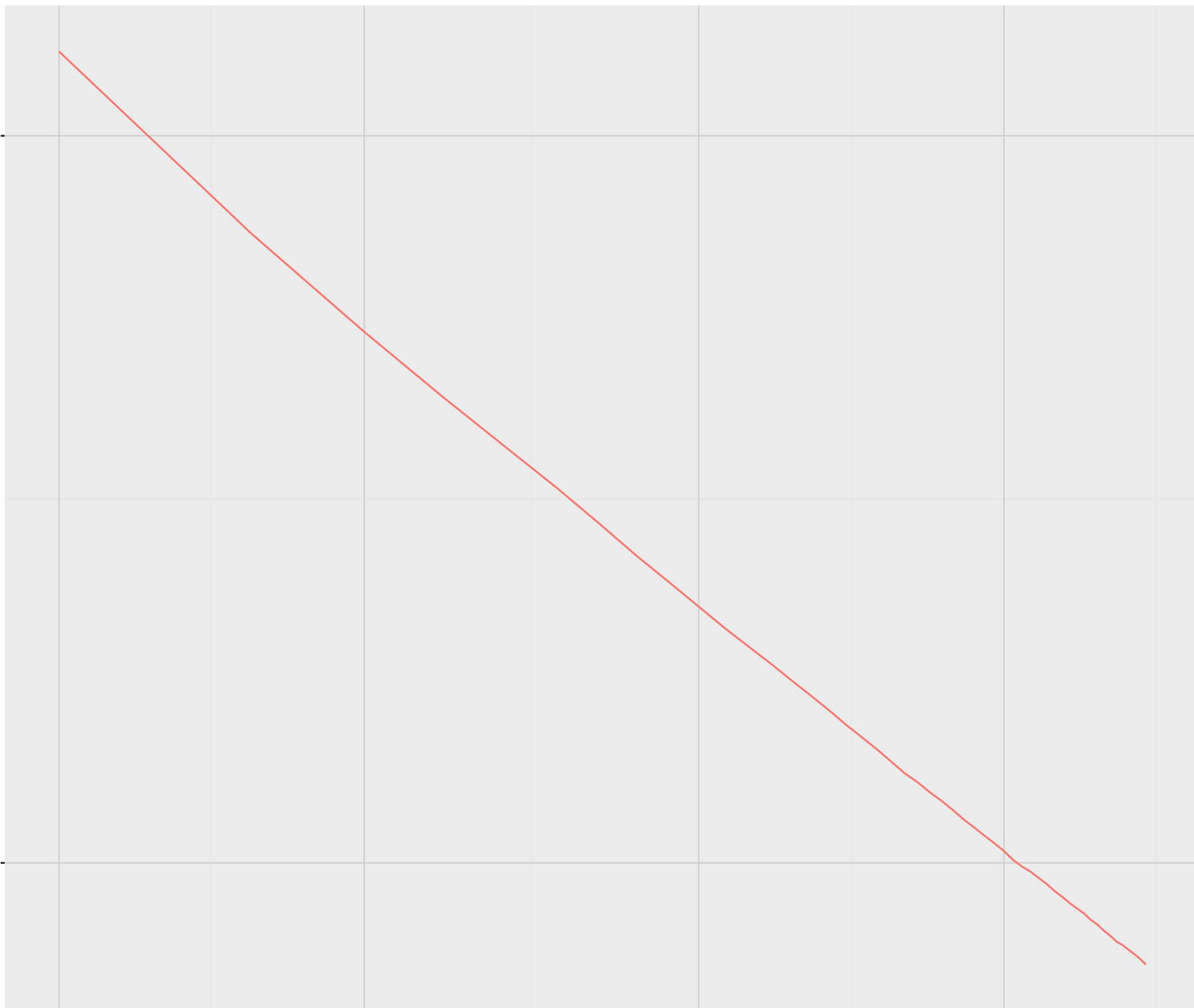
30

enrolment_style

recent

FNIR(R)
N = 1600000

Mugshot
natural



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

