

A: Datasheet

Algorithm: rankone_1

Developer: Rank One Computing

Submission Date: 2018_02_15

Template size: 324 bytes

Template time (2.5 percentile): 134 msec

Template time (median): 136 msec

Template time (97.5 percentile): 143 msec

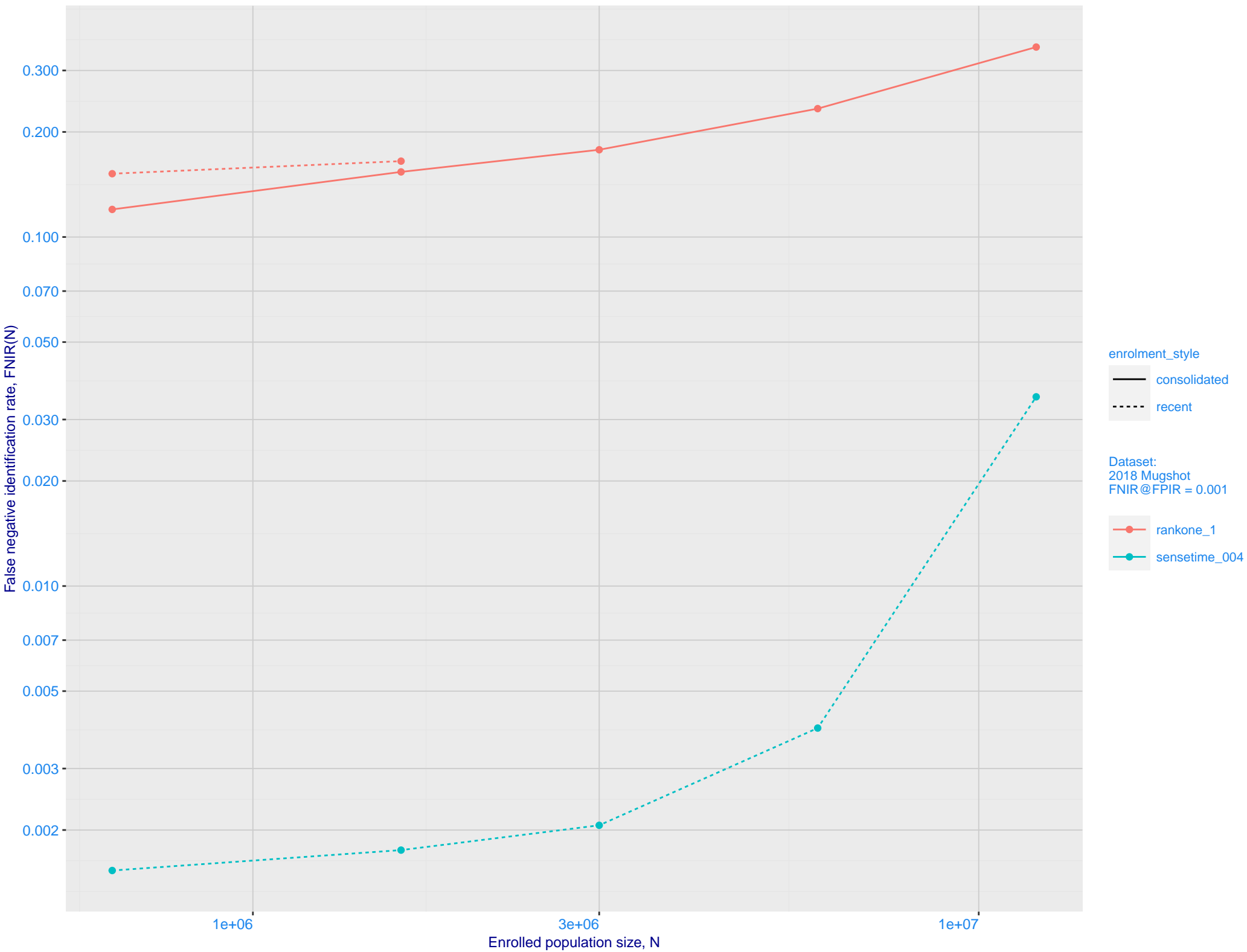
Investigation:

Frontal mugshot ranking 170 (out of 265) — FNIR(1600000, 0, 1) = 0.0221 vs. lowest 0.0009 from sensetime_005

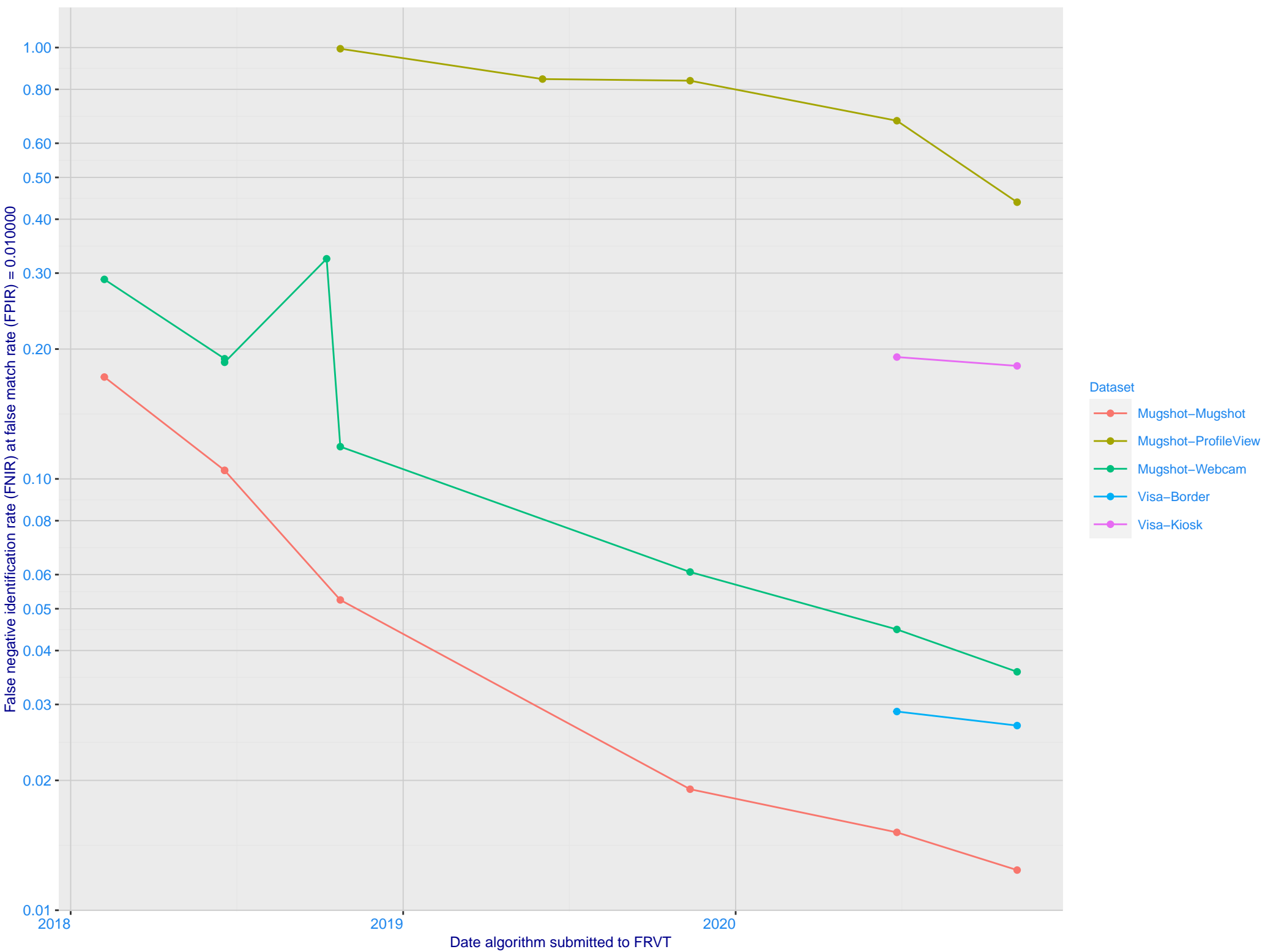
Identification:

Frontal mugshot ranking 163 (out of 265) — FNIR(1600000, T, L+1) = 0.1650, FPIR=0.001000 vs. lowest 0.0018 from sensetime_004

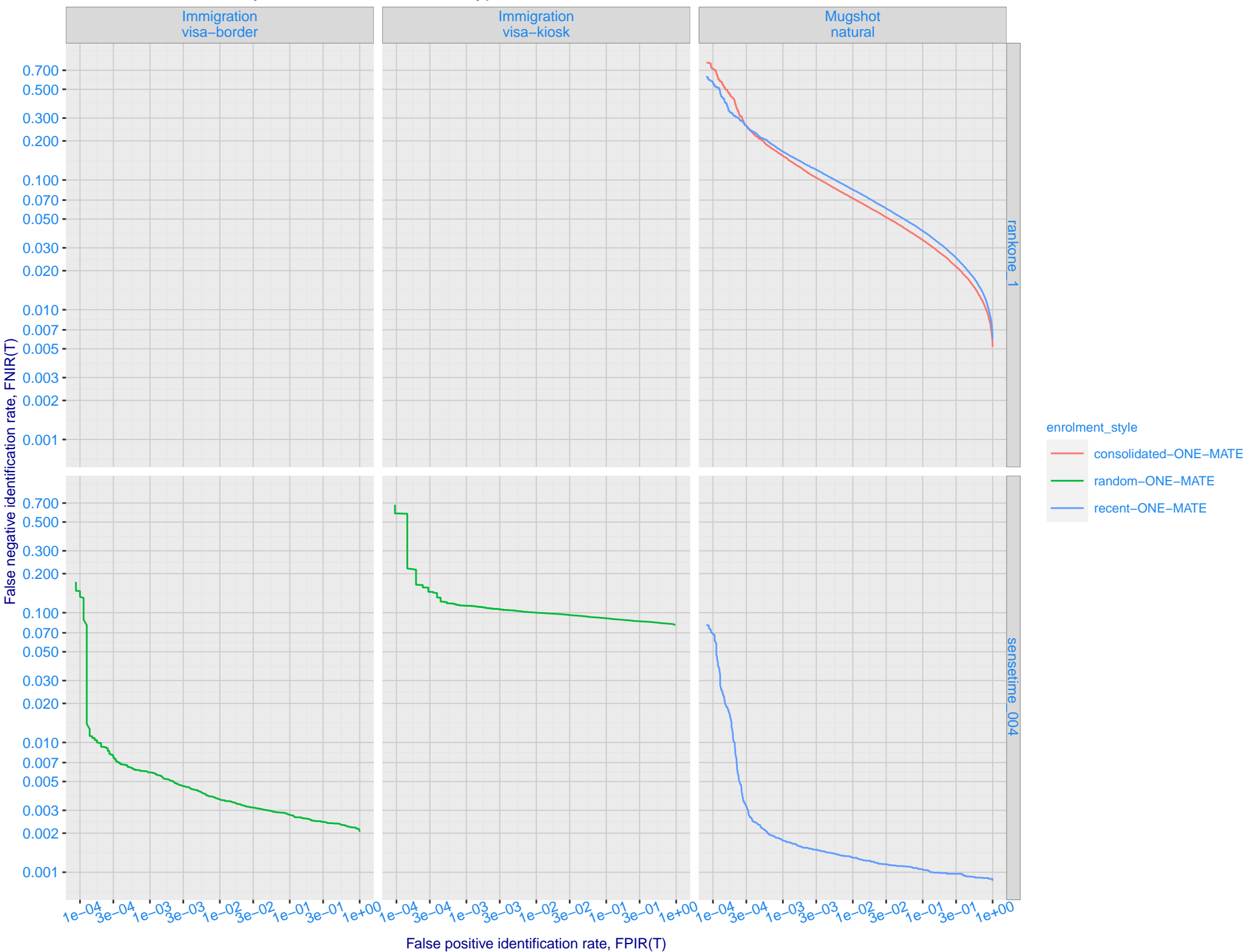
B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime_004)



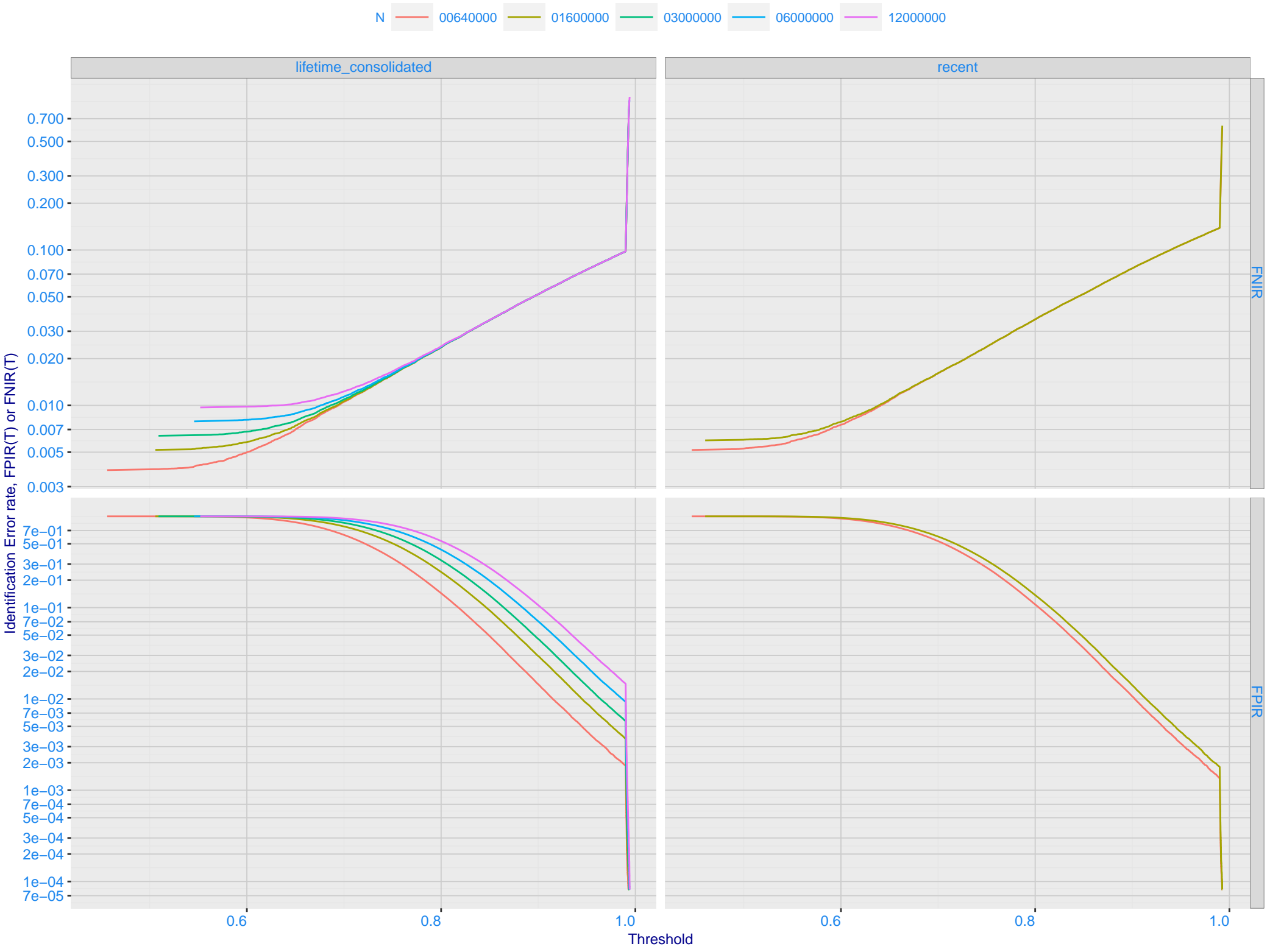
C: Evolution of accuracy for RANKONE algorithms on three datasets 2018 – present



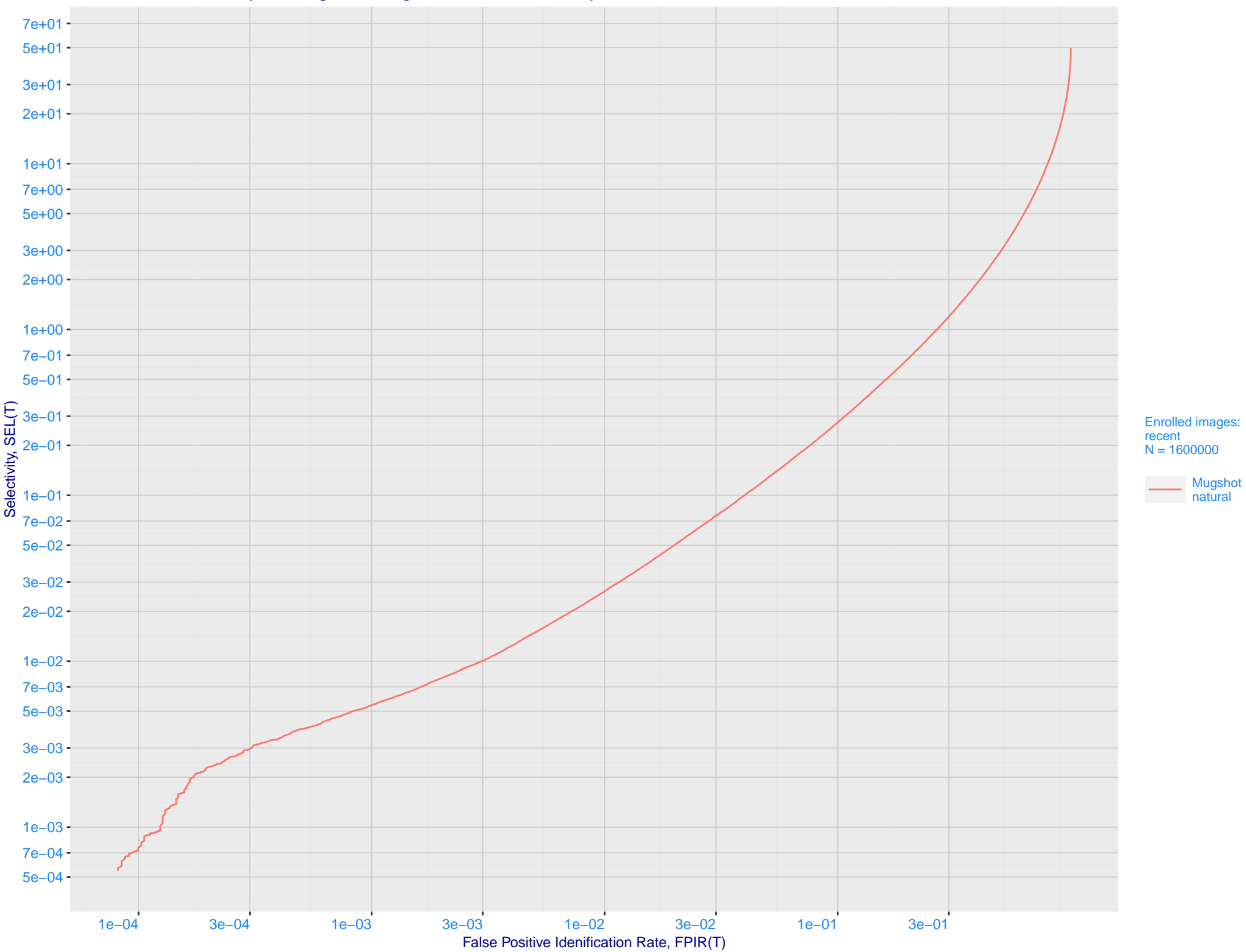
D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



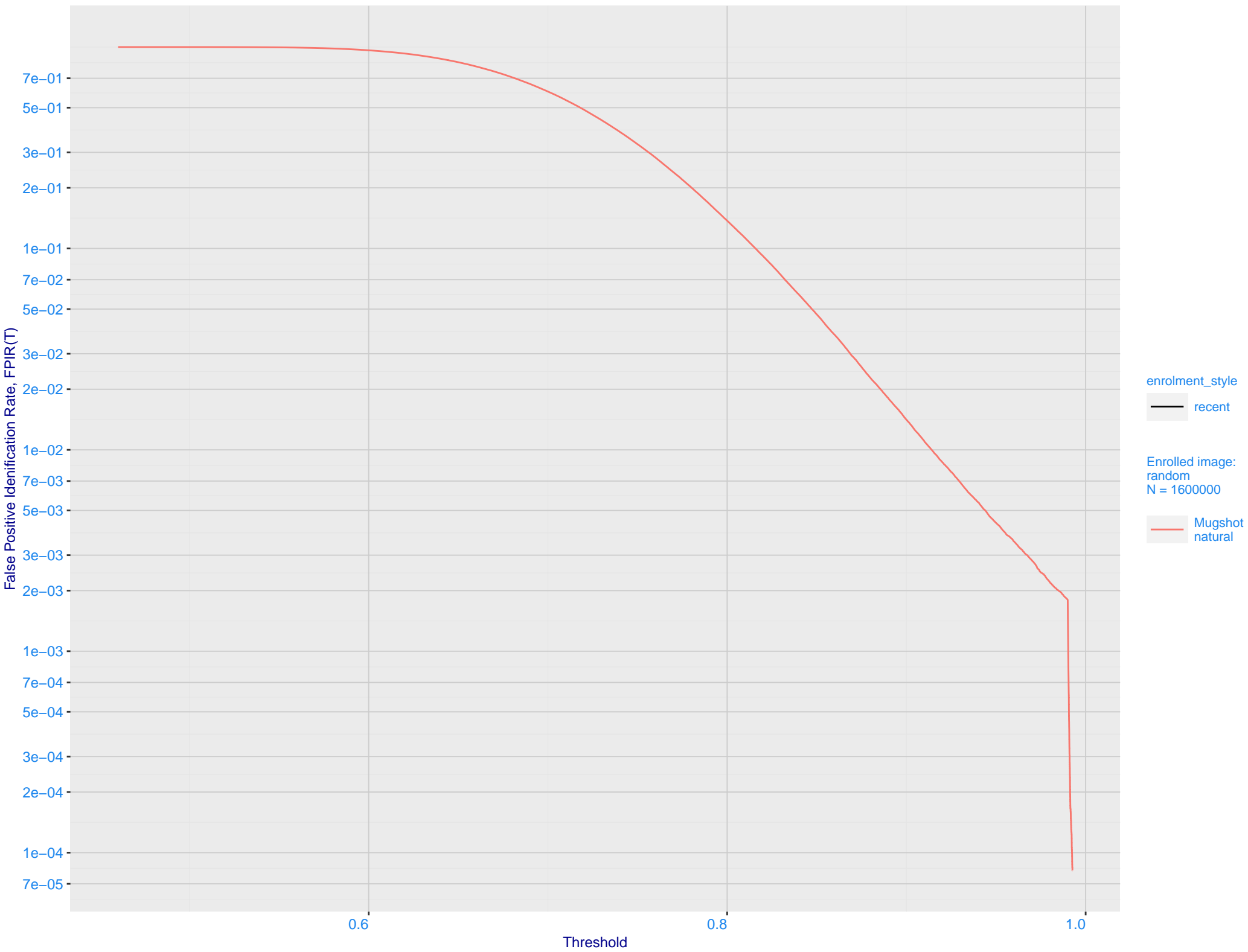
E: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



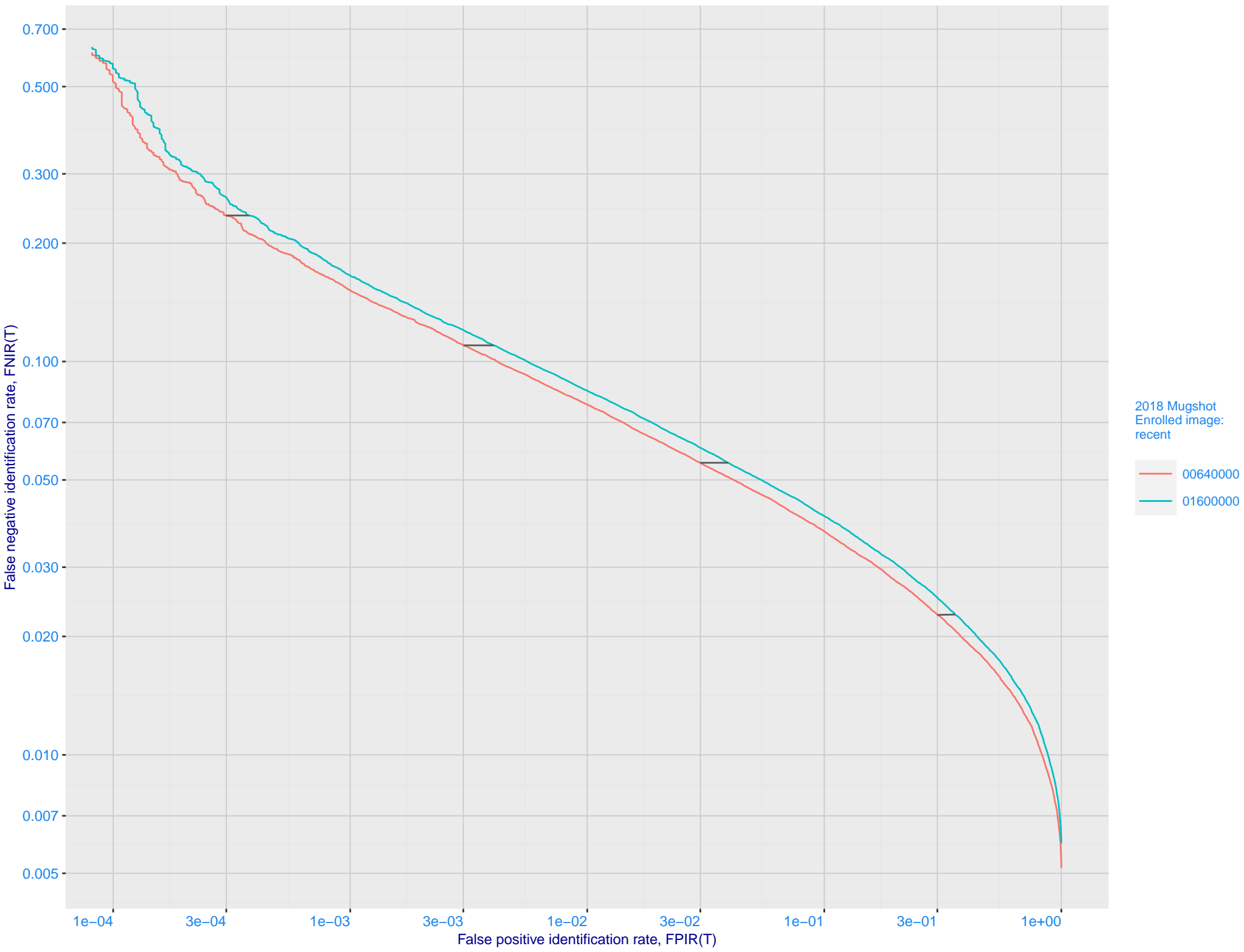
F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



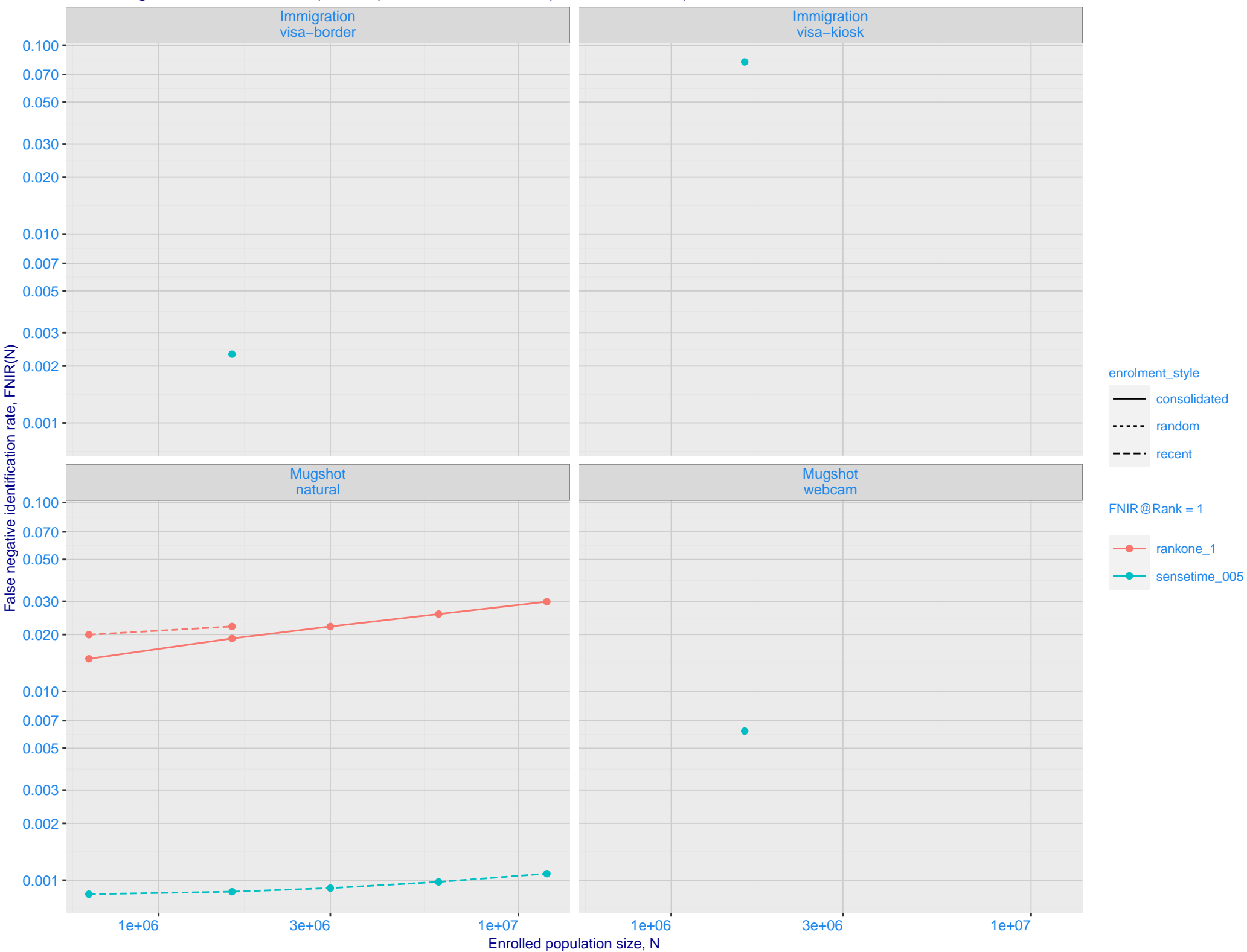
G: FPIR dependence on T by probe type for N = 1600000 subjects



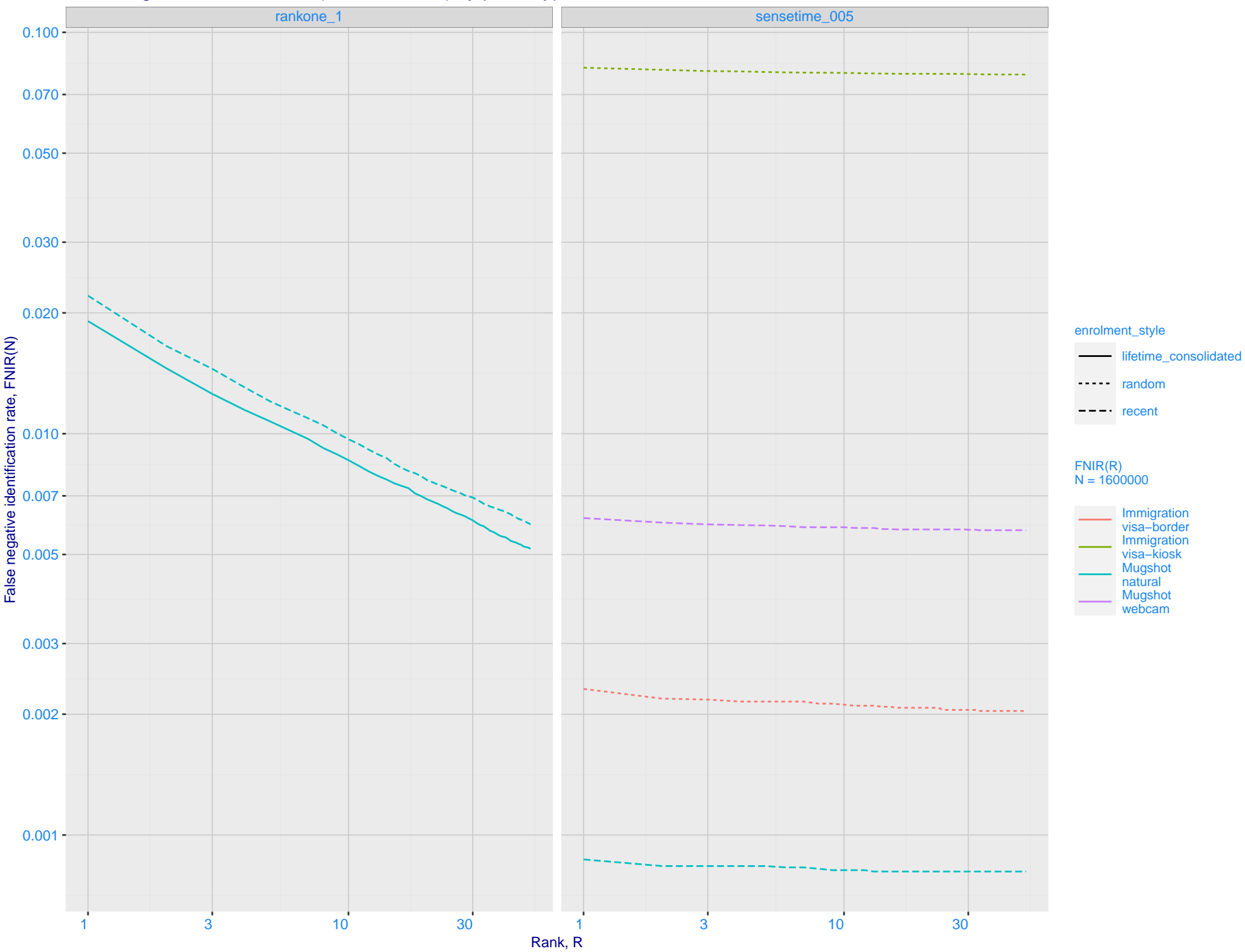
H: DET for Mugshot natural images and various N. Links connect points of equal threshold.



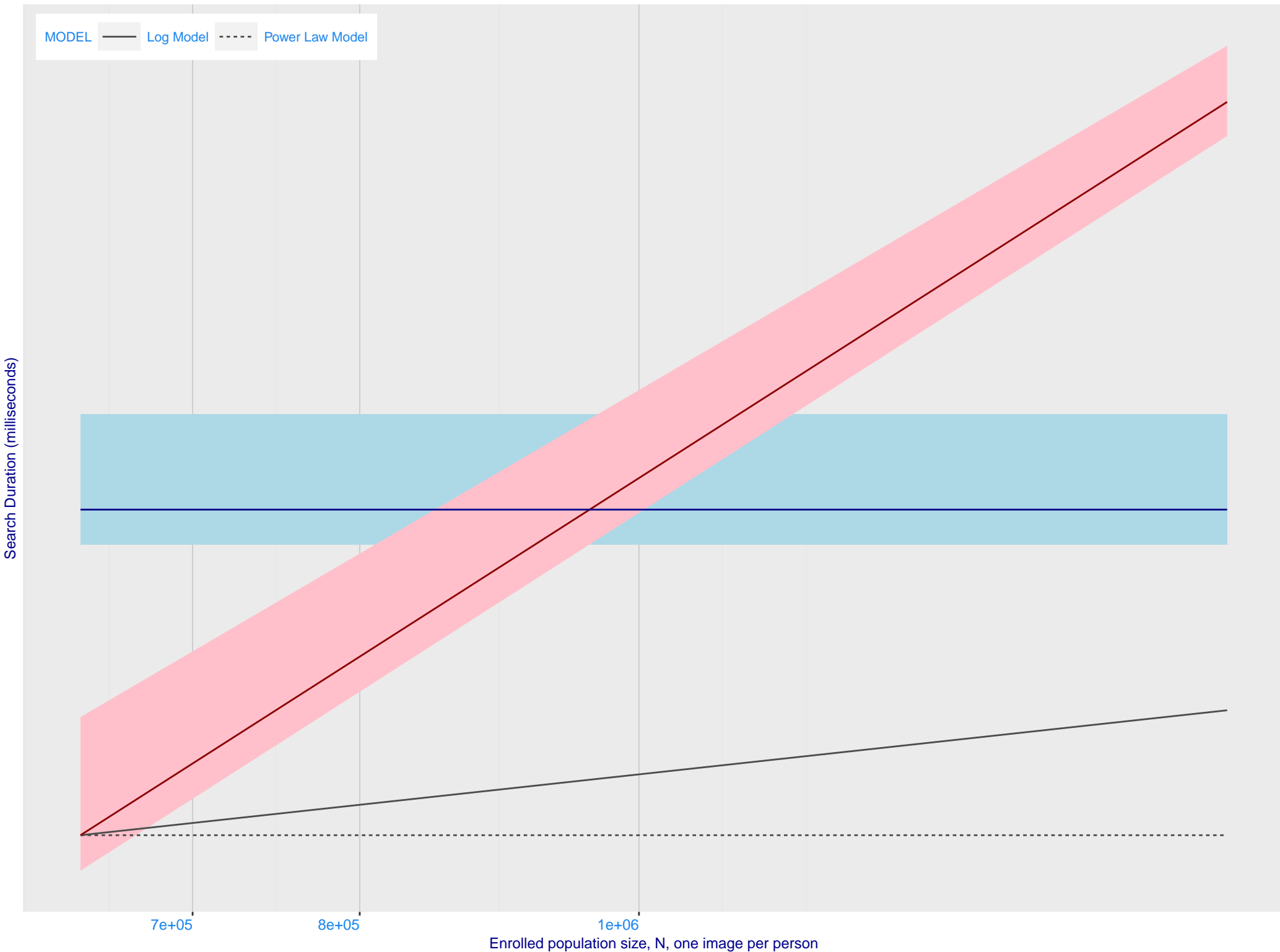
I: Investigational mode: FNIR(N, 1, 0) vs. most accurate (sensetime_005)



J: 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



M: Identification FNIR(N, T, L+1) and Investigational FNIR(N, 0, R) under ageing

Dataset: 2018 Mugshot N = 3068801

