A: Datasheet

Algorithm: sensetime_1

Developer: Sensetime Group

Submission Date: 2018_10_30

Template size: 4104 bytes

Template time (2.5 percentile): 627 msec

Template time (median): 628 msec

Template time (97.5 percentile): 810 msec

Investigation:

Frontal mugshot ranking 35 (out of 259) –– FNIR(1600000, 0, 1) = 0.0023 vs. lowest 0.0009 from sensetime_005
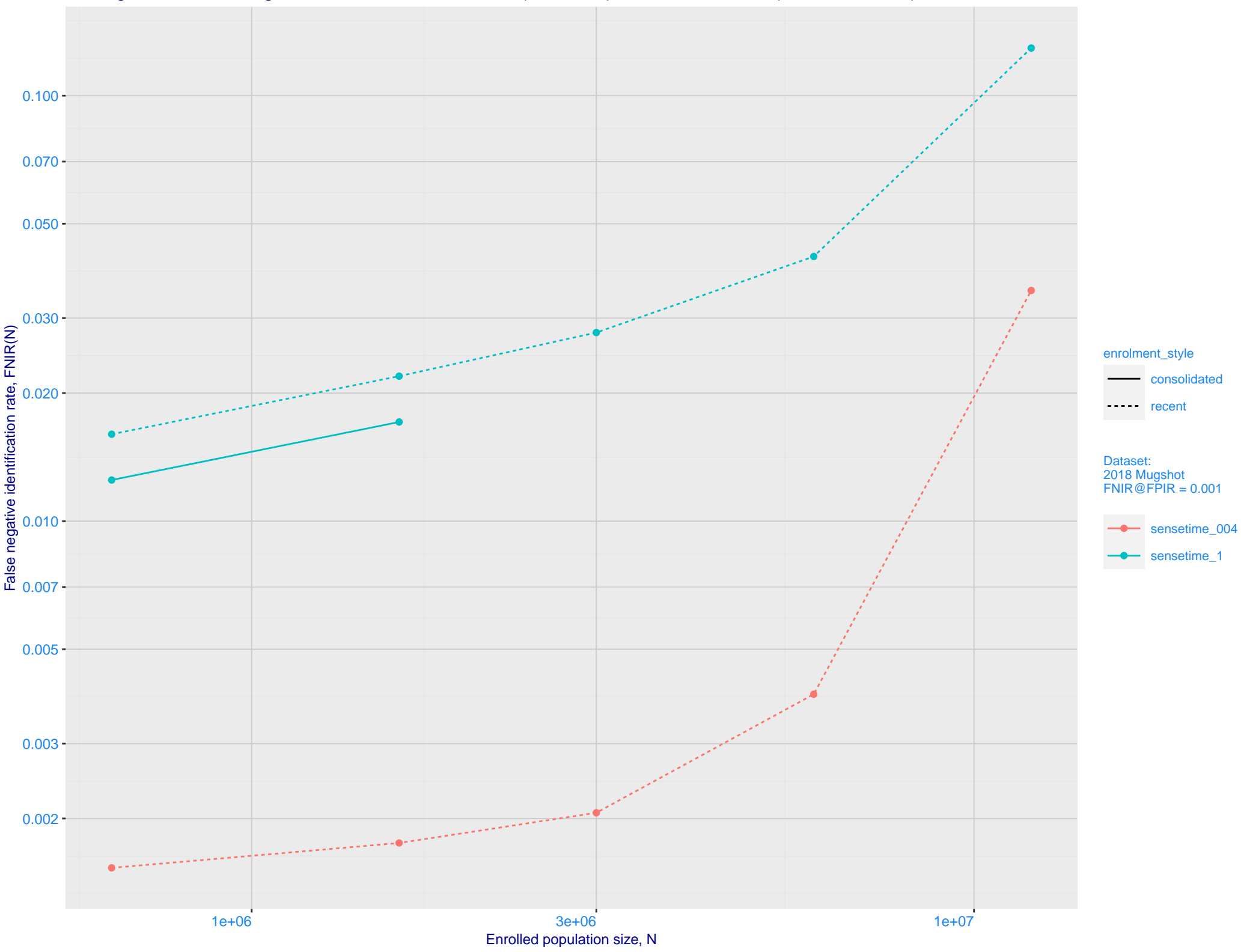
Mugshot webcam ranking 42 (out of 221) –– FNIR(1600000, 0, 1) = 0.0157 vs. lowest 0.0062 from sensetime_005
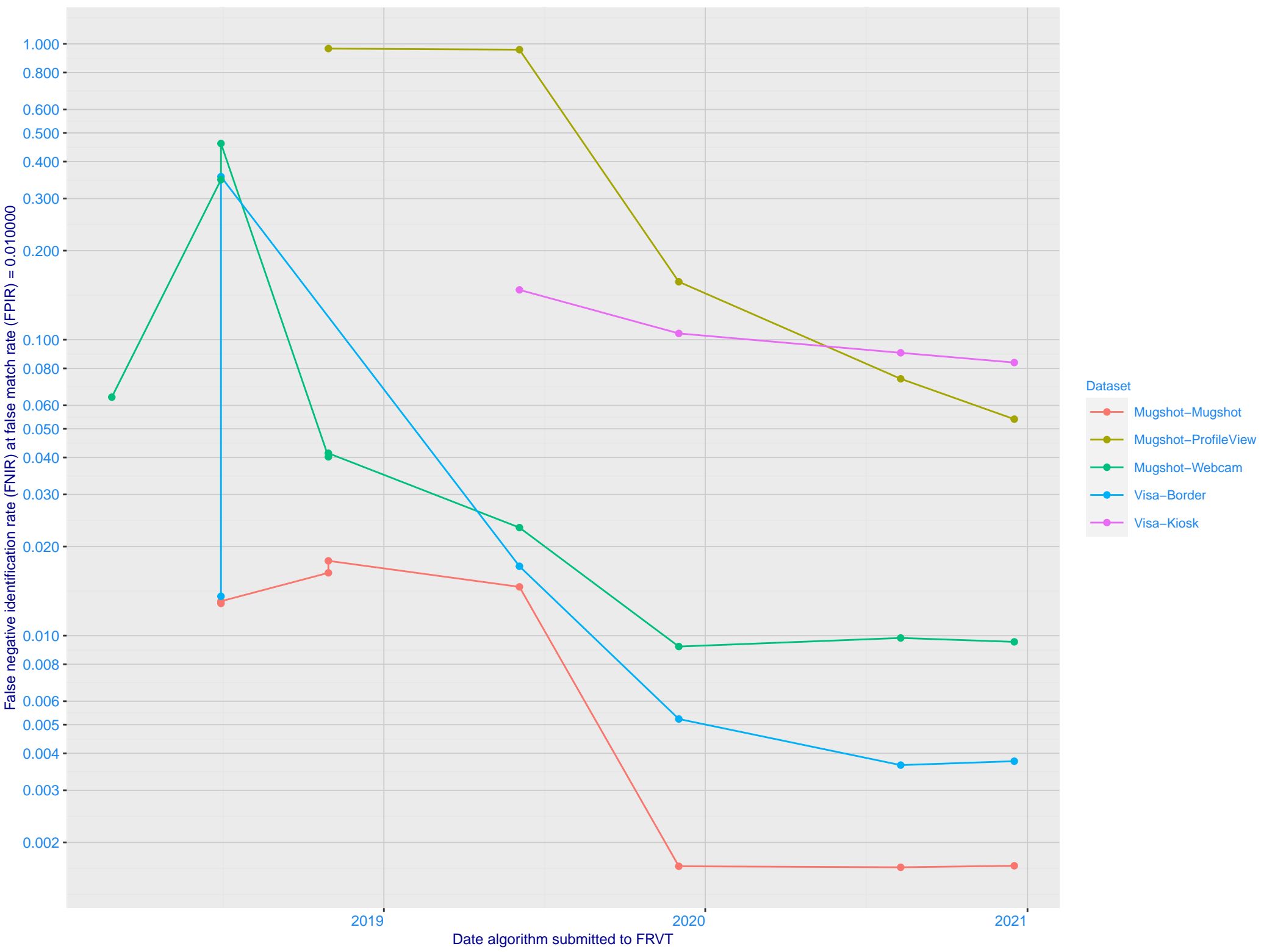
Identification:

Frontal mugshot ranking 36 (out of 259) –– FNIR(1600000, T, L+1) = 0.0219, FPIR=0.001000 vs. lowest 0.0018 from sensetime_004

Mugshot webcam ranking 30 (out of 219) –– FNIR(1600000, T, L+1) = 0.0642, FPIR=0.001000 vs. lowest 0.0122 from sensetime_003
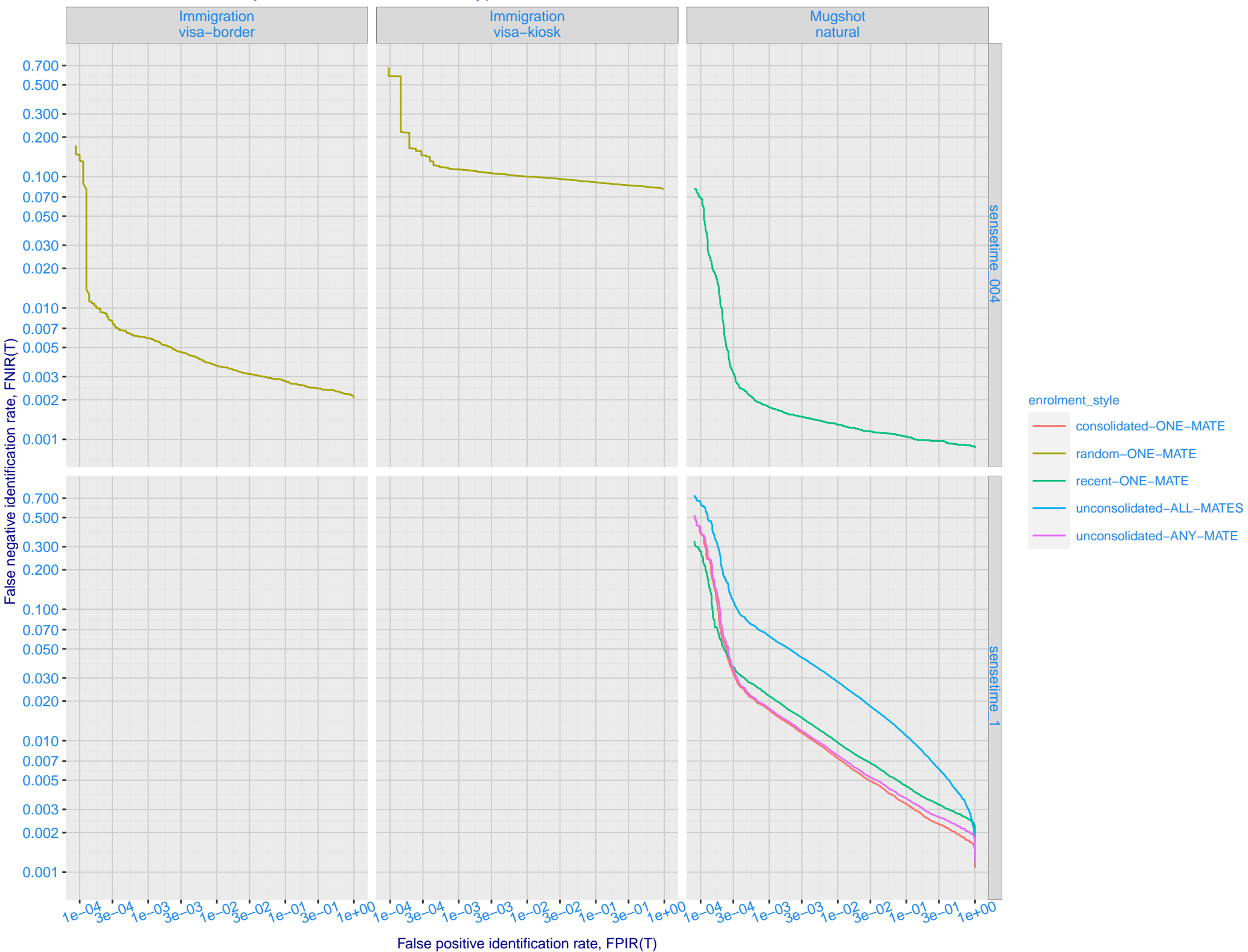
B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime_004)
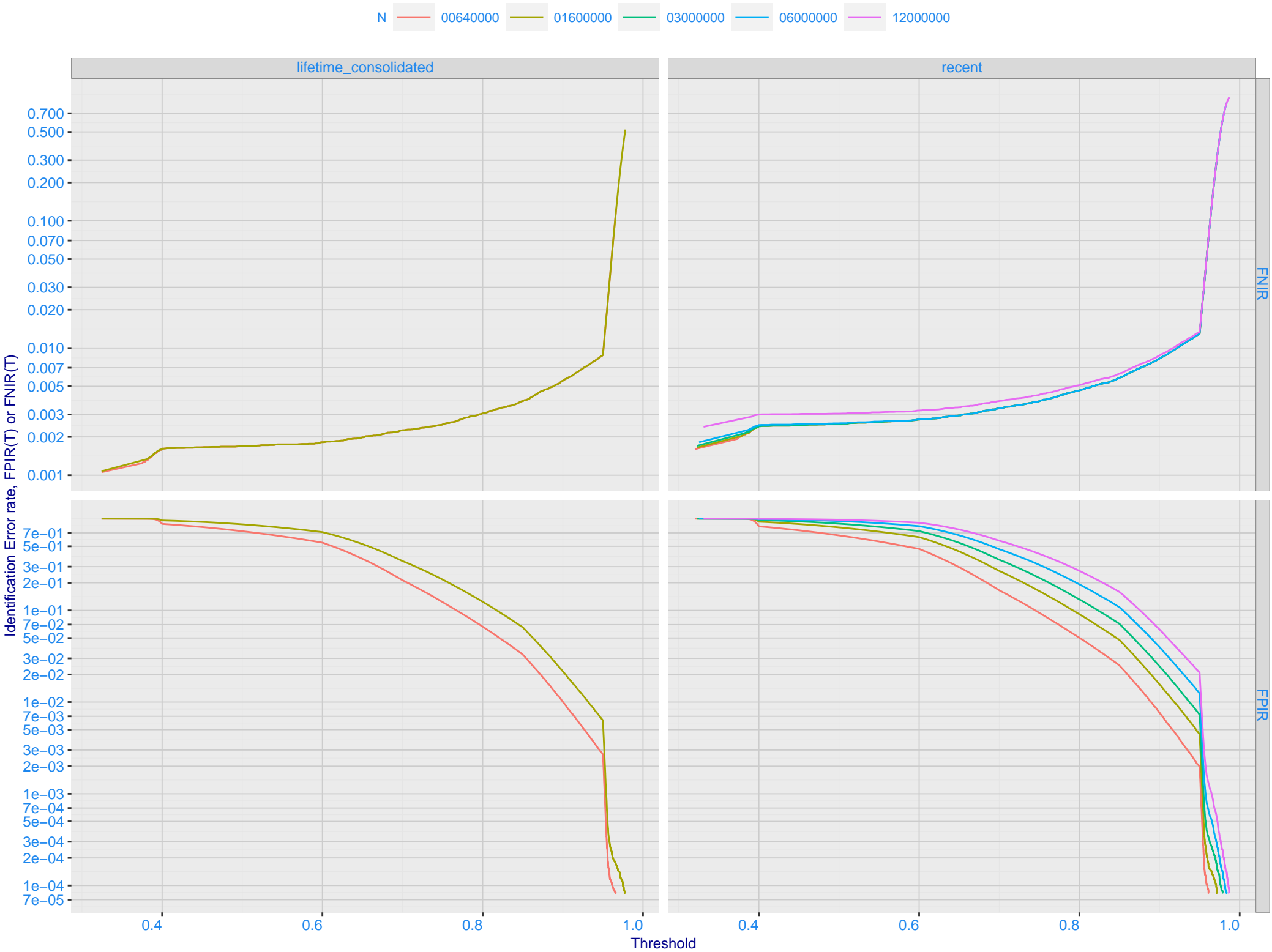
C: Evolution of accuracy for SENSETIME algorithms on three datasets 2018 – present
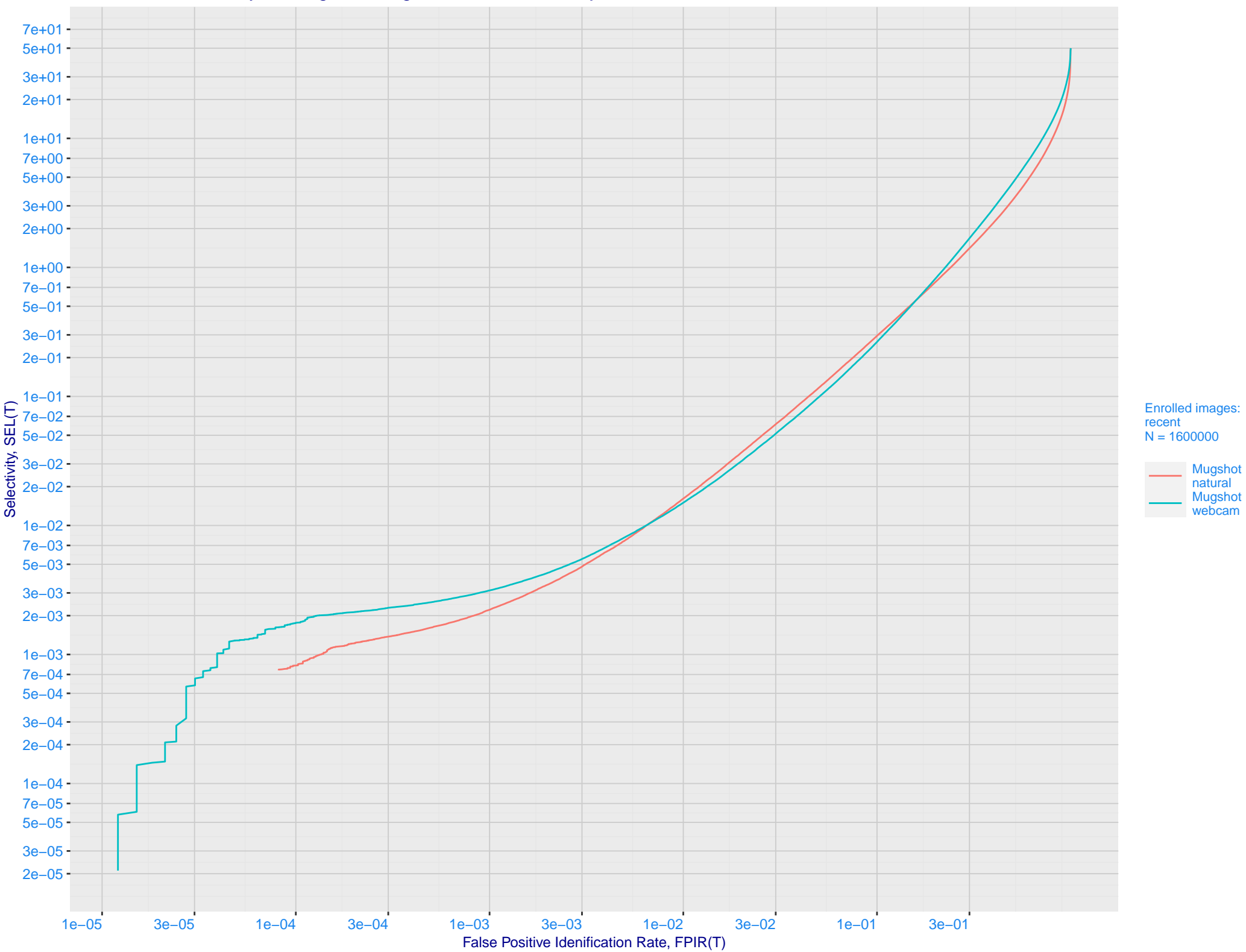
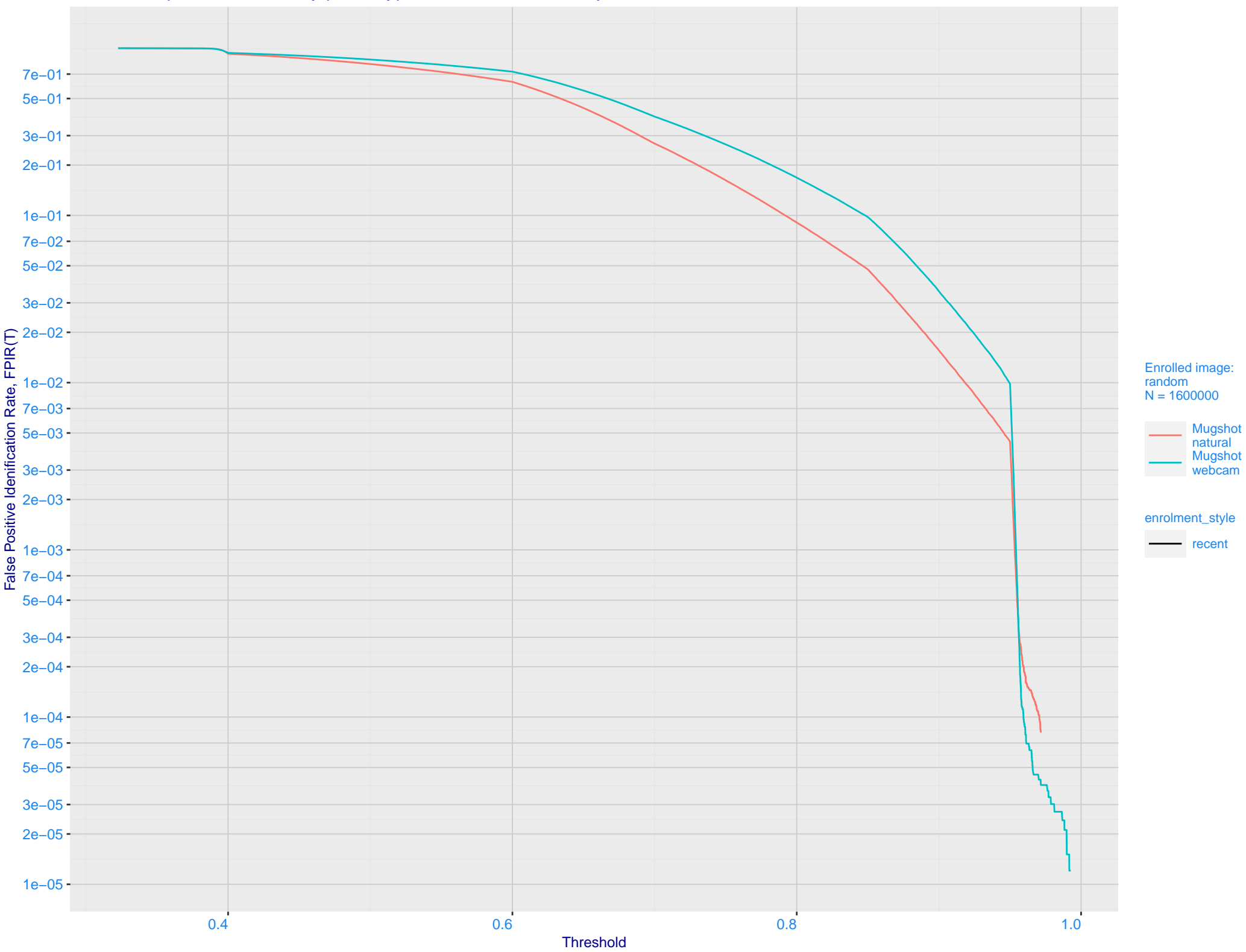D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals

E: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images
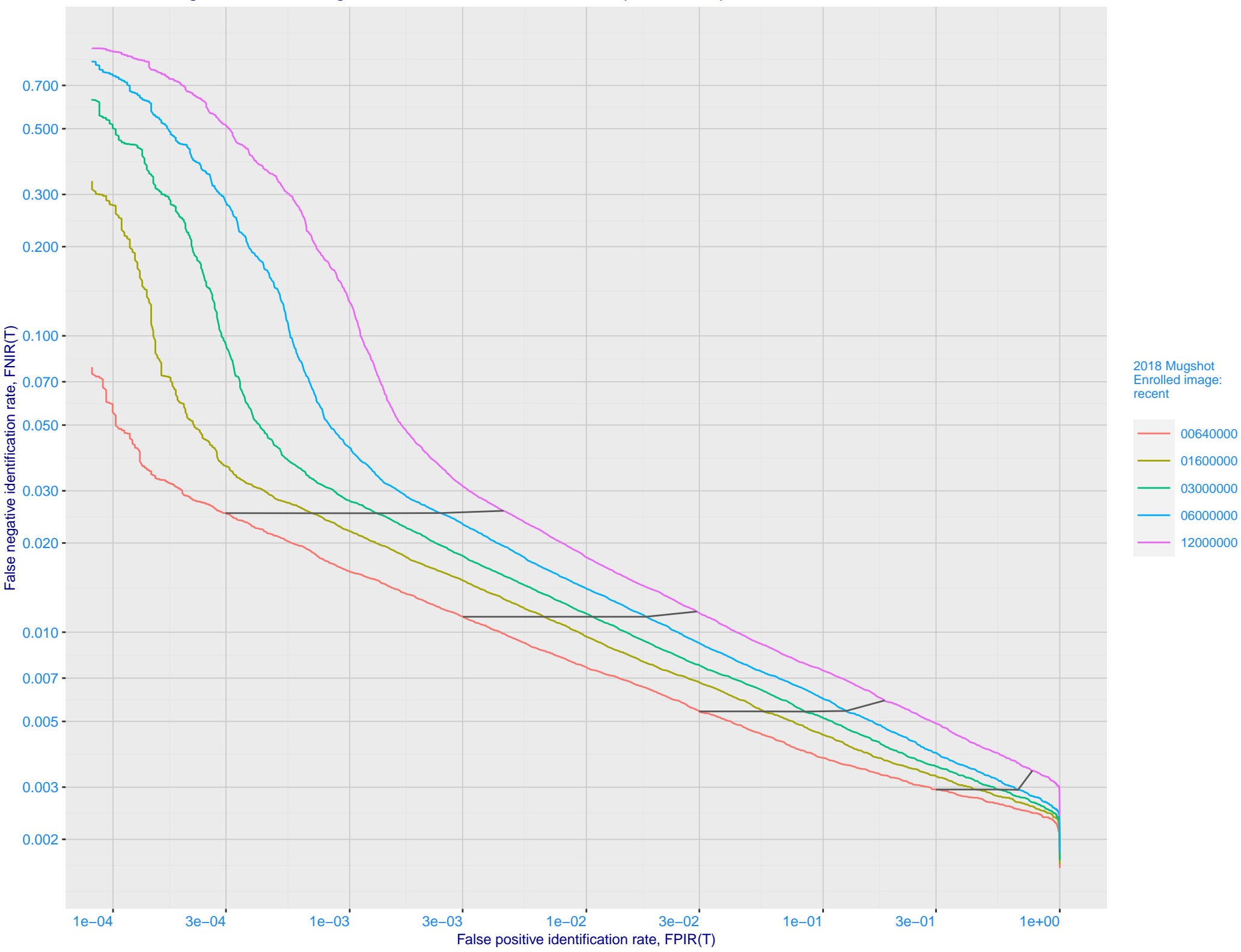
F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate
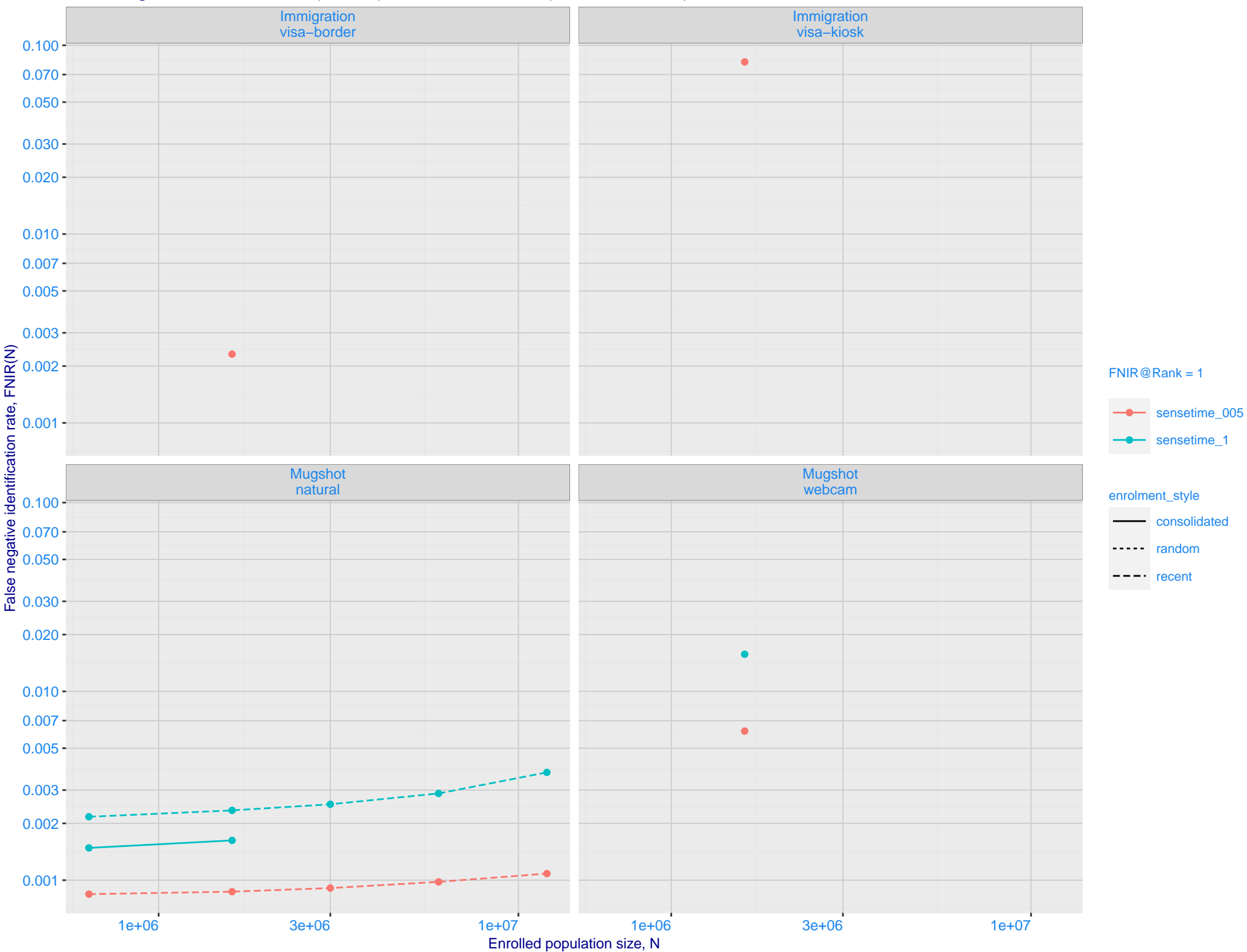
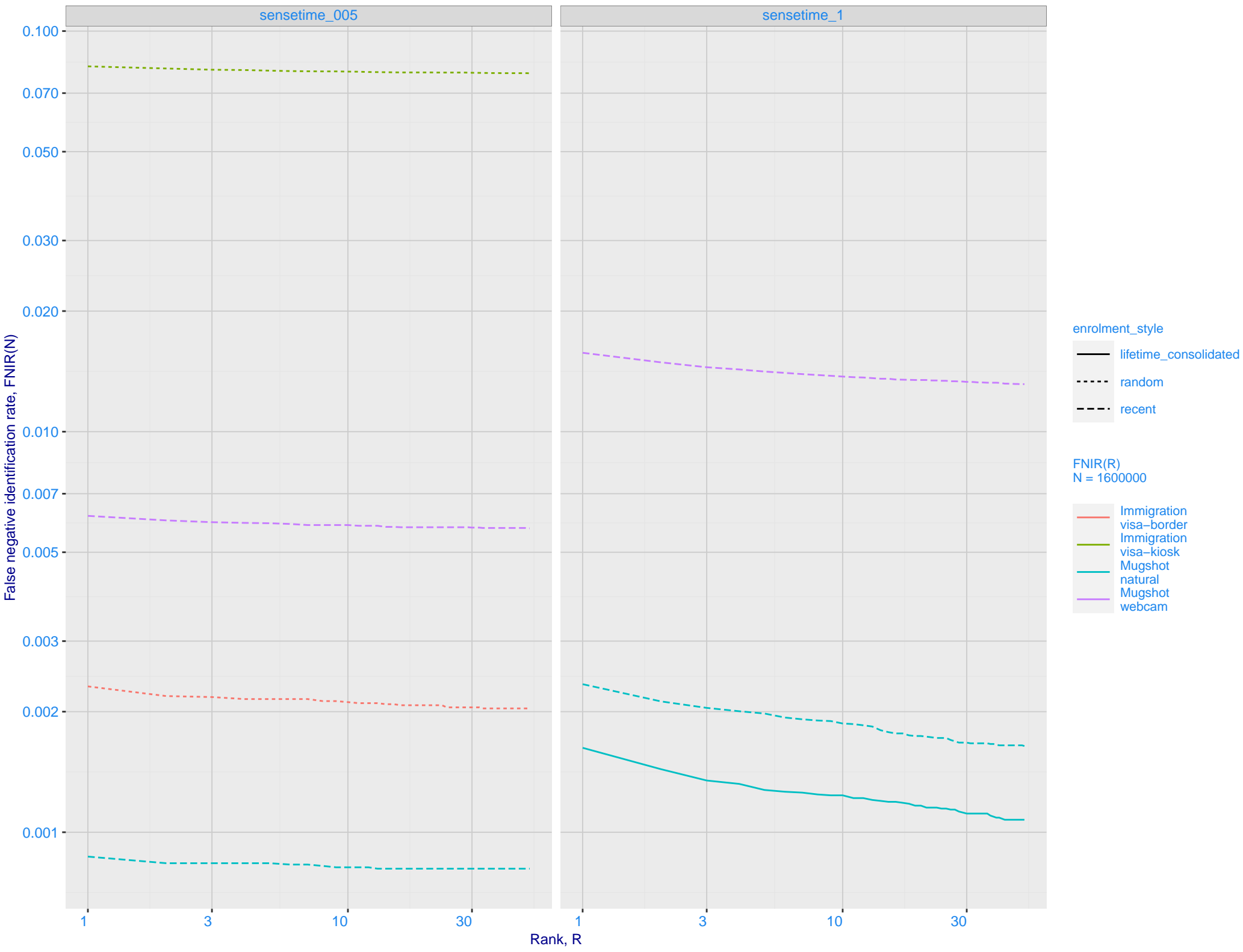G: FPIR dependence on T by probe type for N = 1600000 subjects

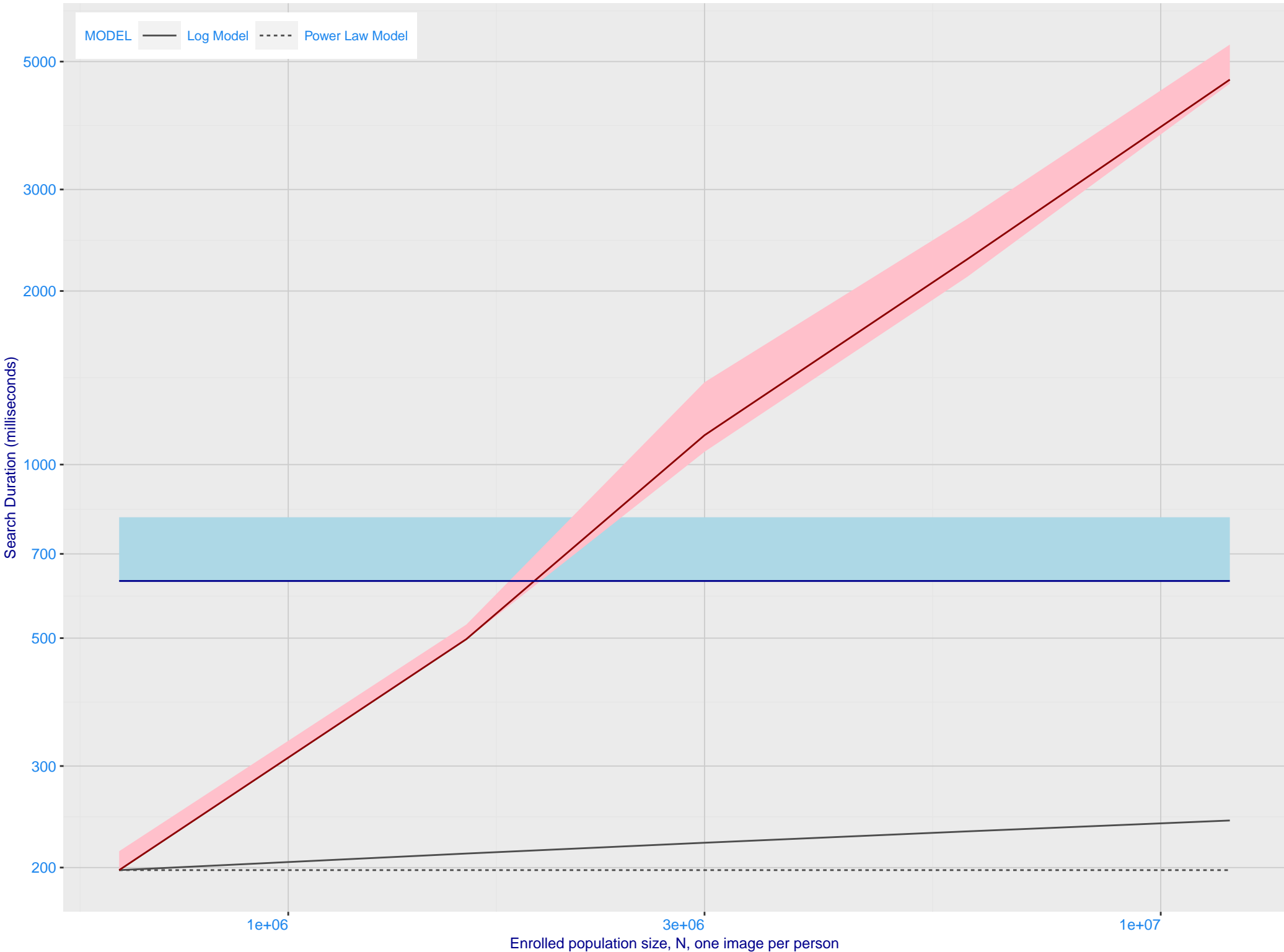H: DET for Mugshot natural images and various N. Links connect points of equal threshold.

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