A: Datasheet

Algorithm: hbinno_0

Developer: loginface Corp

Submission Date: 2018_02_01

Template size: 520 bytes

Template time (2.5 percentile): 242 msec

Template time (median): 262 msec

Template time (97.5 percentile): 297 msec

Investigation:

Frontal mugshot ranking 261 (out of 279) –– FNIR(1600000, 0, 1) = 0.2726 vs. lowest 0.0009 from sensetime_005

Mugshot profile ranking 200 (out of 210) –– FNIR(1600000, 0, 1) = 0.9900 vs. lowest 0.0587 from xforwardai_002

Immigration visa–border ranking 150 (out of 168) –– FNIR(1600000, 0, 1) = 0.5303 vs. lowest 0.0013 from visionlabs_010

Immigration visa–kiosk ranking 147 (out of 165) –– FNIR(1600000, 0, 1) = 0.6675 vs. lowest 0.0568 from cloudwalk_hr_000
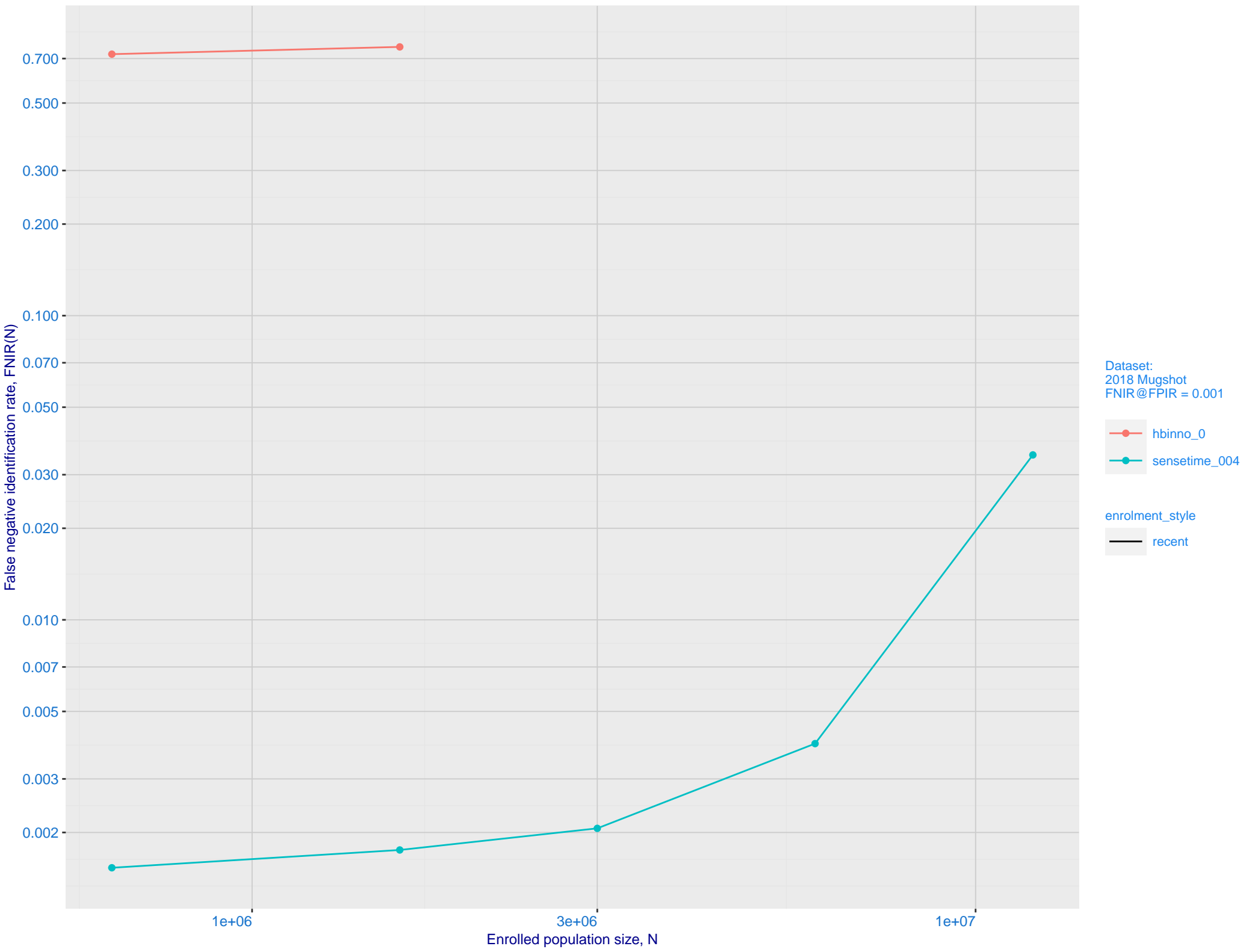
Identification:

Frontal mugshot ranking 253 (out of 279) –– FNIR(1600000, T, L+1) = 0.7646, FPIR=0.001000 vs. lowest 0.0018 from sensetime_004

Mugshot profile ranking 172 (out of 209) –– FNIR(1600000, T, L+1) = 0.9999, FPIR=0.001000 vs. lowest 0.1331 from cloudwalk_hr_000
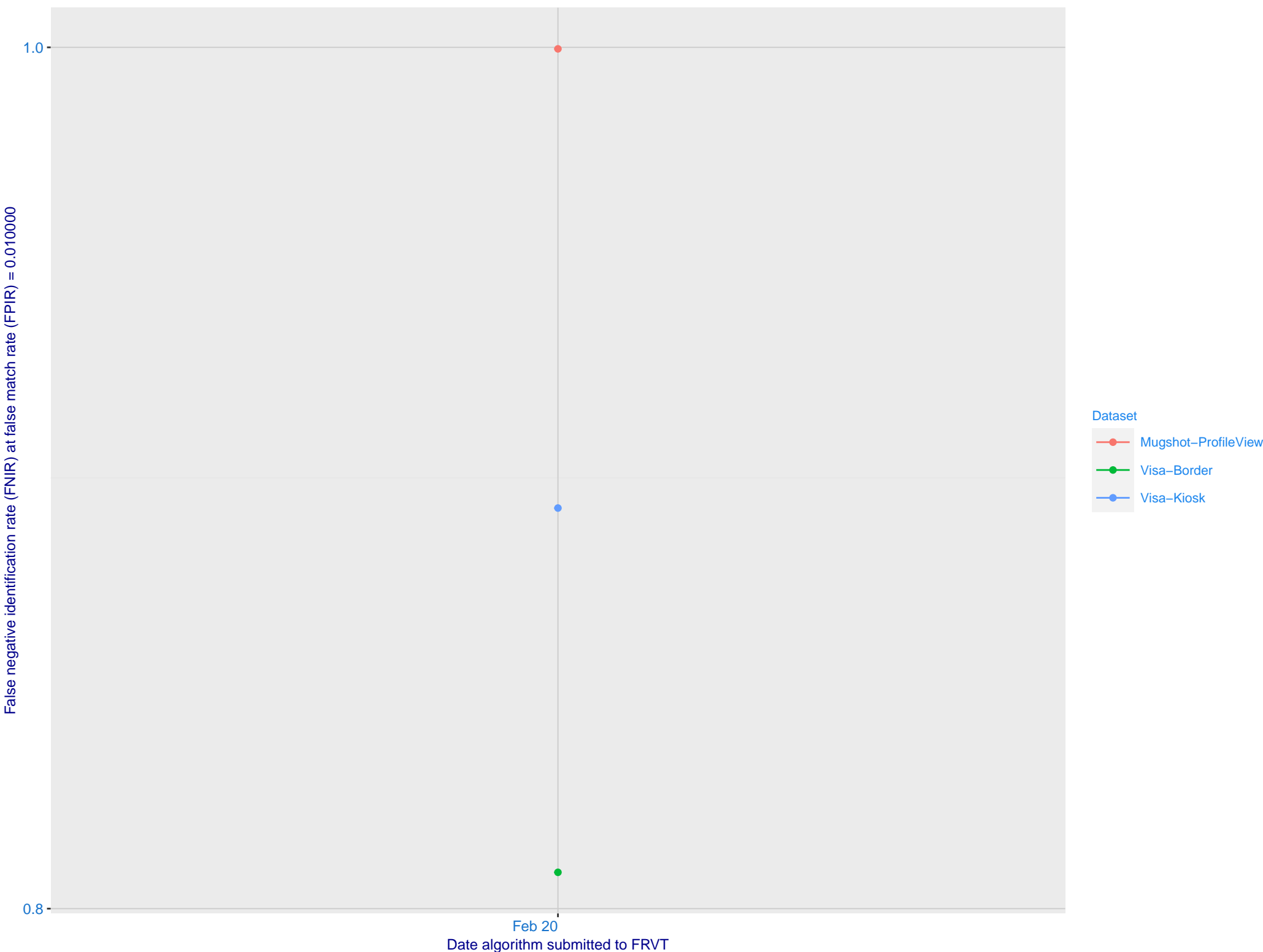
Immigration visa–border ranking 141 (out of 167) –– FNIR(1600000, T, L+1) = 0.8972, FPIR=0.001000 vs. lowest 0.0047 from idemia_008

Immigration visa–kiosk ranking 126 (out of 162) –– FNIR(1600000, T, L+1) = 0.9541, FPIR=0.001000 vs. lowest 0.0996 from cloudwalk_hr_000
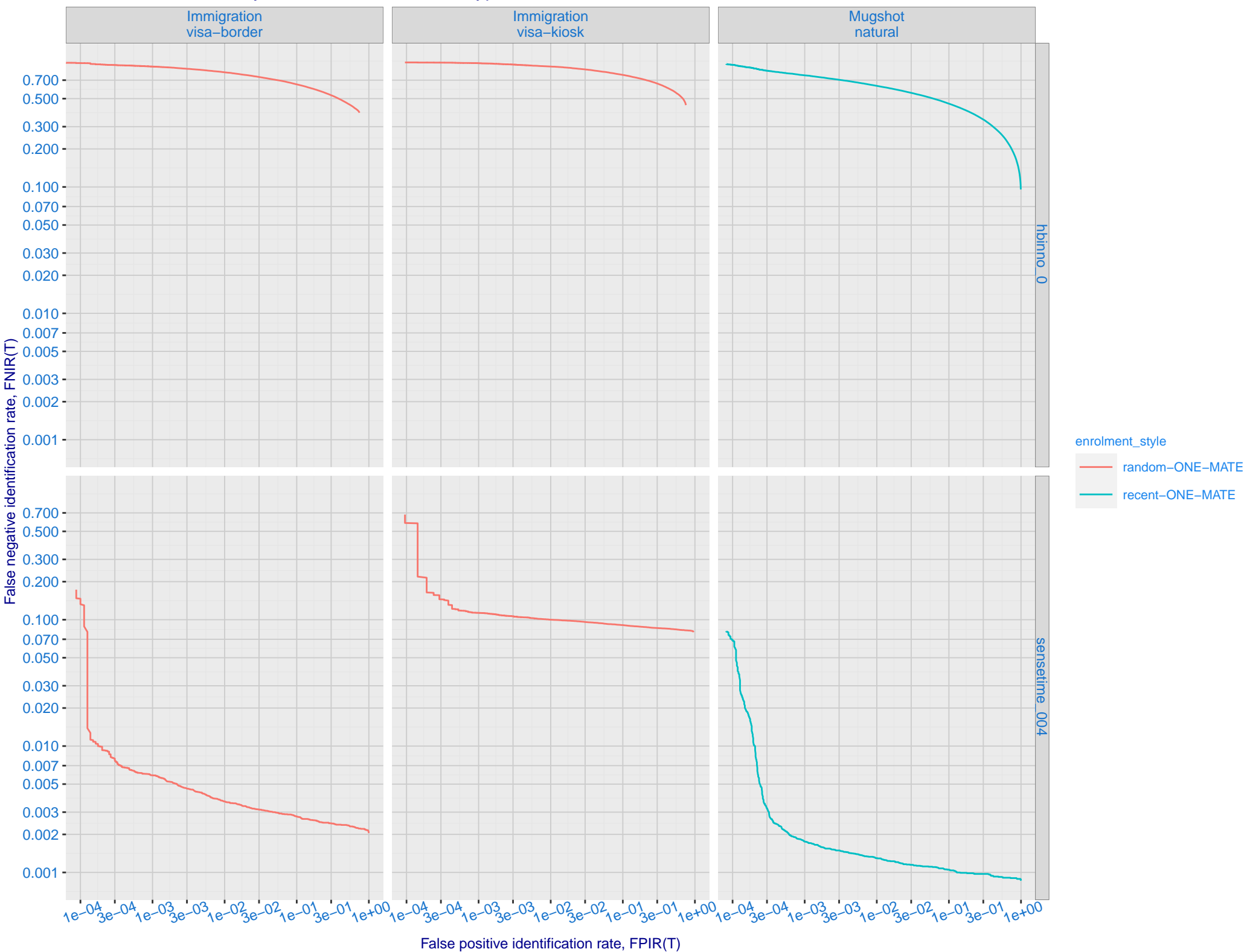
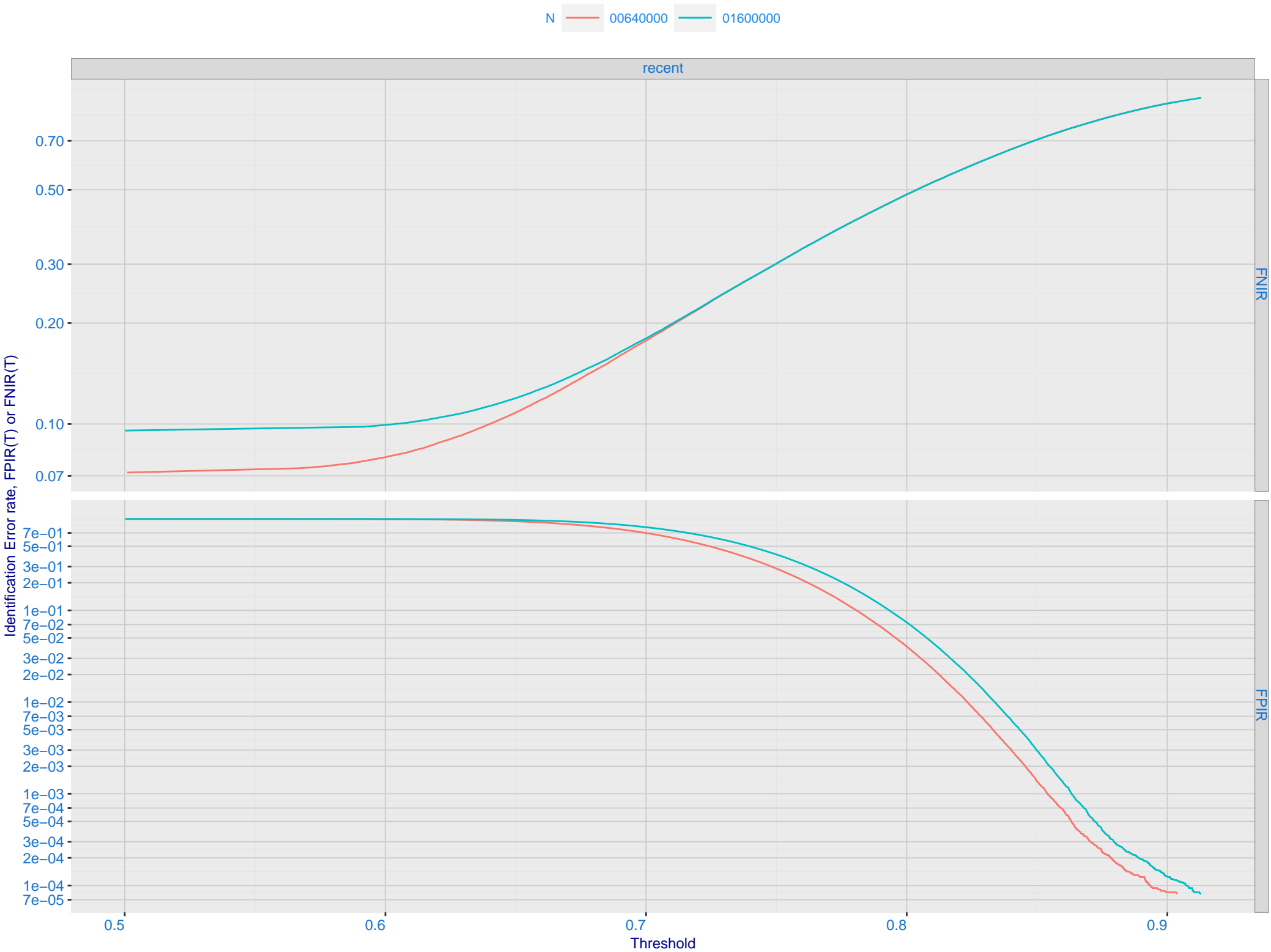B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime_004)

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

Dataset

- Mugshot−ProfileView
- Visa−Border
- Visa−Kiosk

False negative identification rate (FNIR) at false match rate (FPIR) = 0.010000
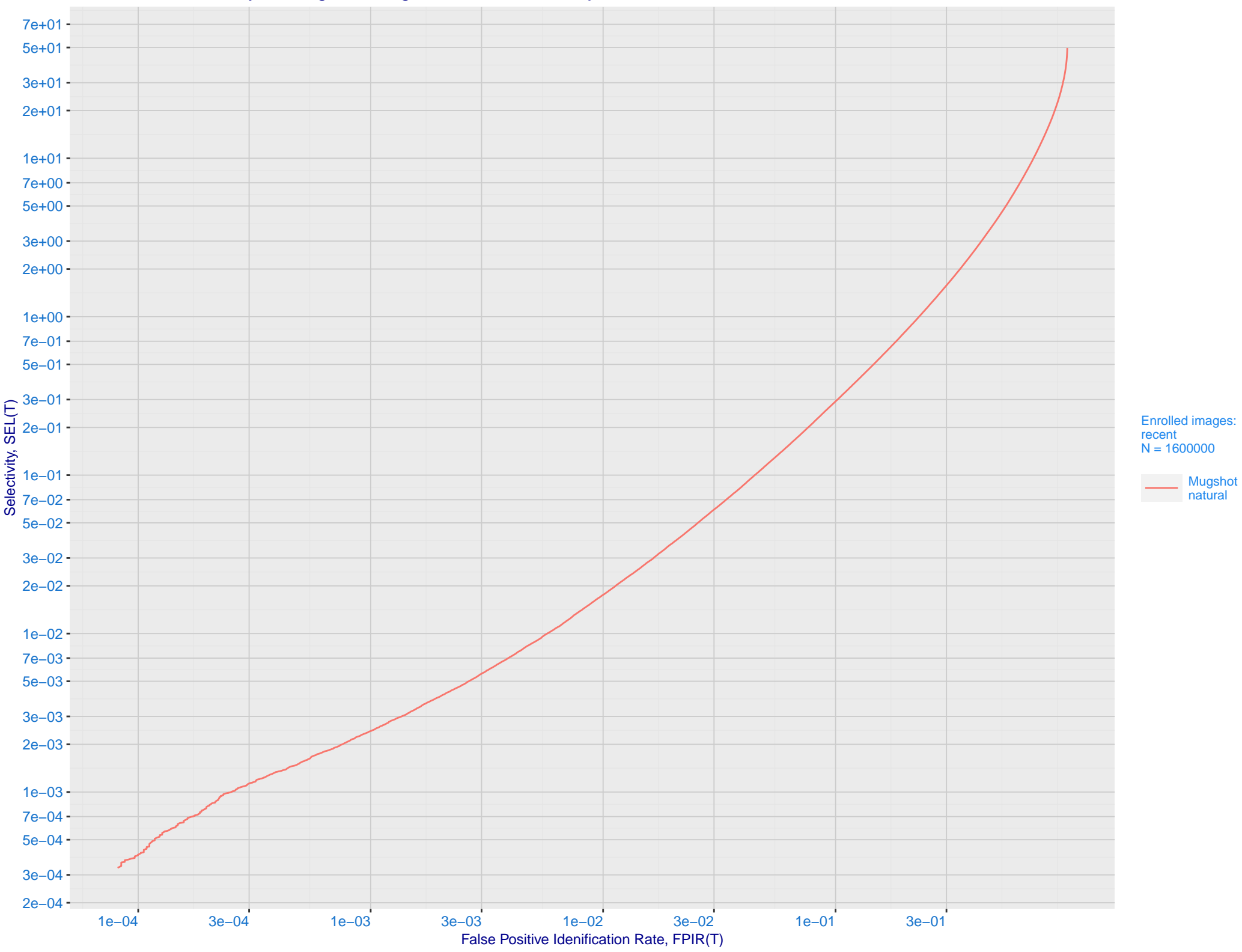
Date algorithm submitted to FRVT

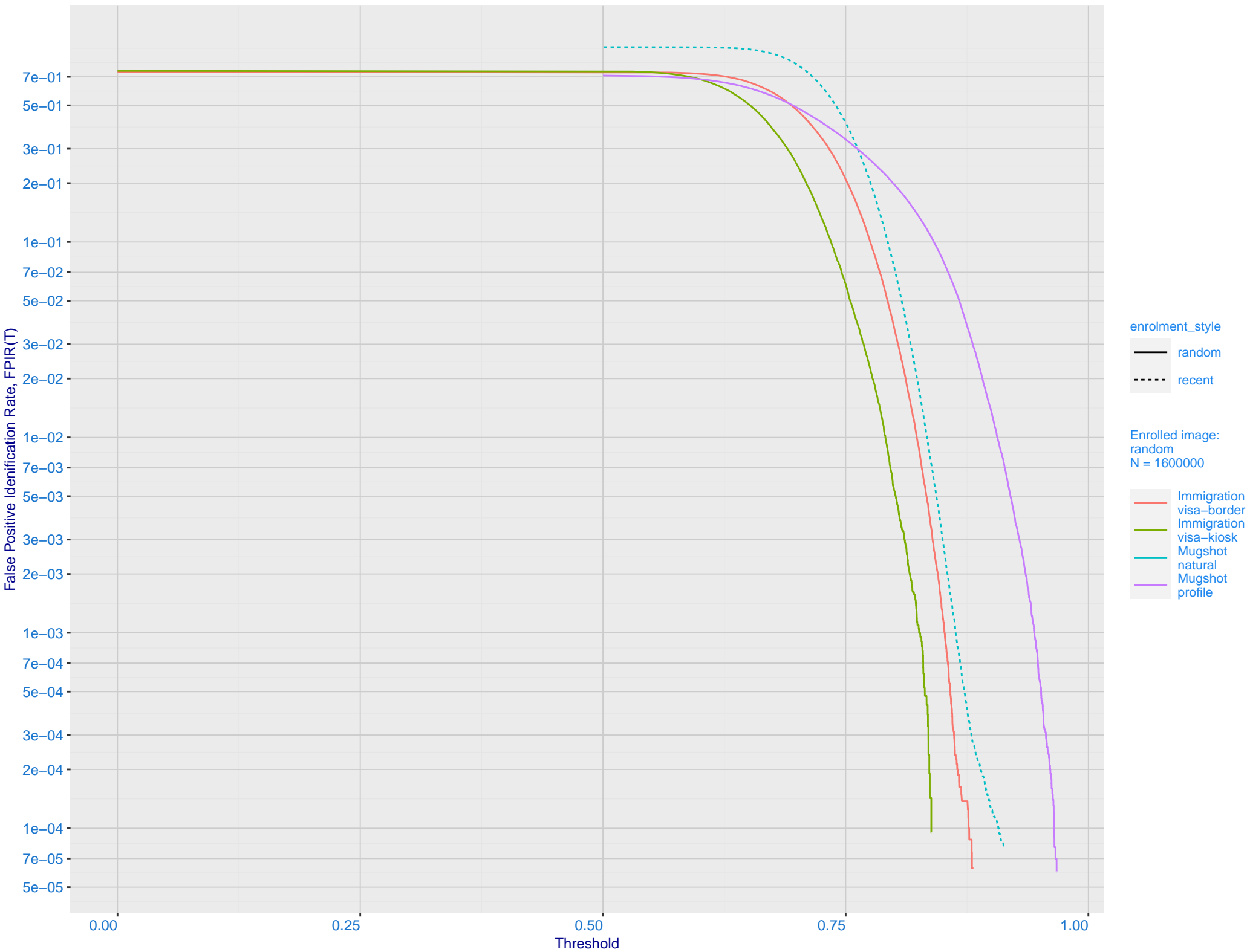D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals

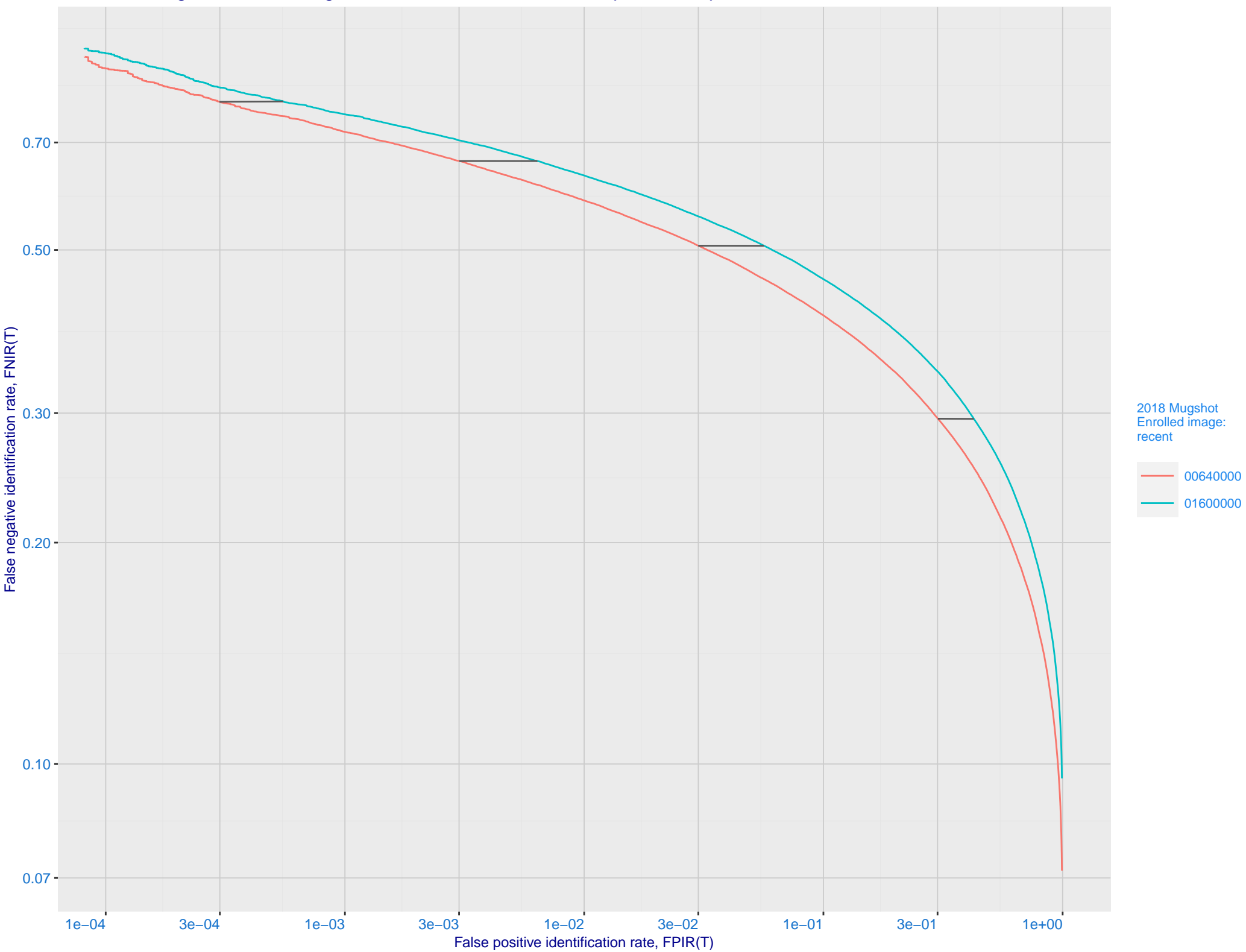E: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images

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

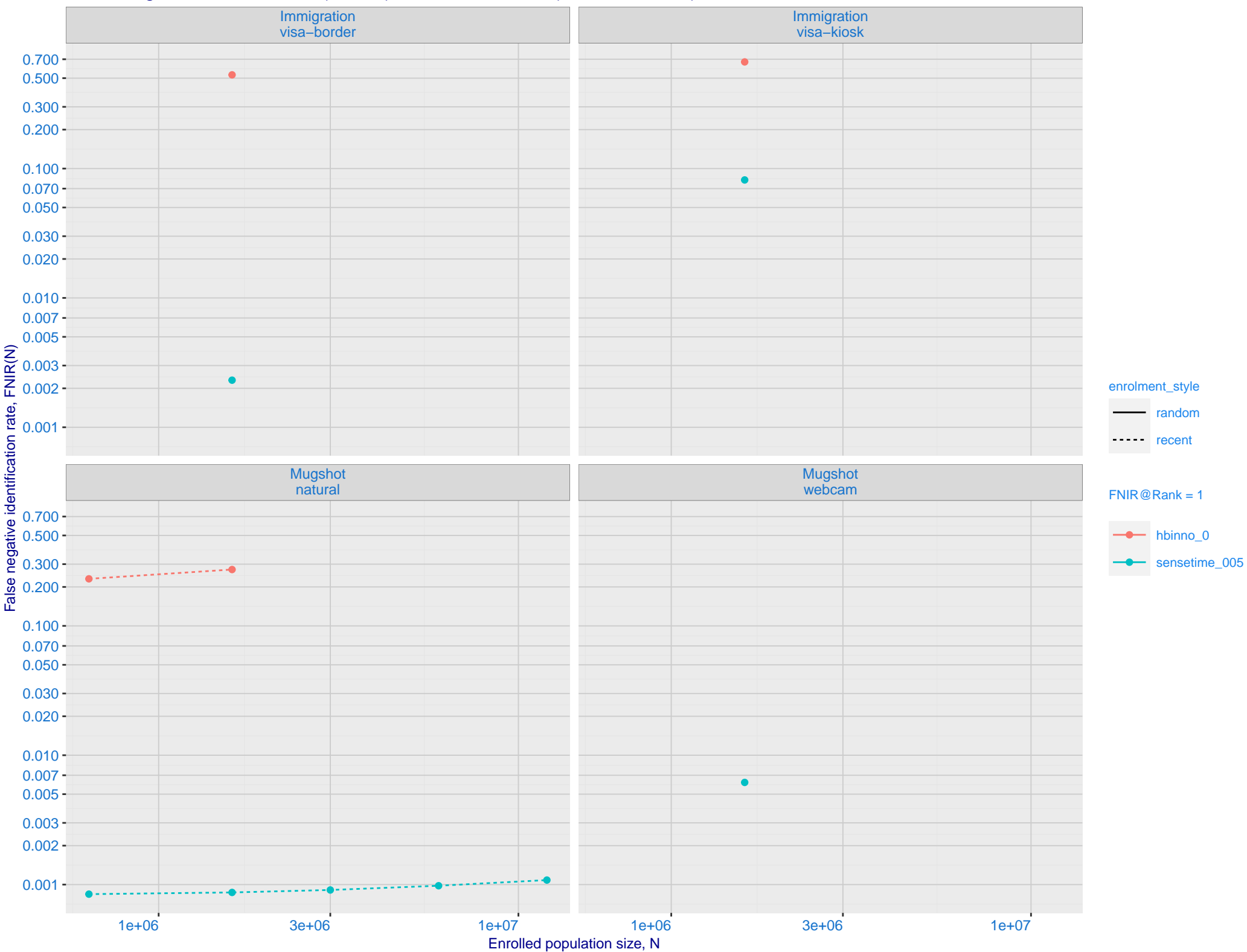G: FPIR dependence on T by probe type for N = 1600000 subjects

J: DET for Mugshot natural images and various N. Links connect points of equal threshold.
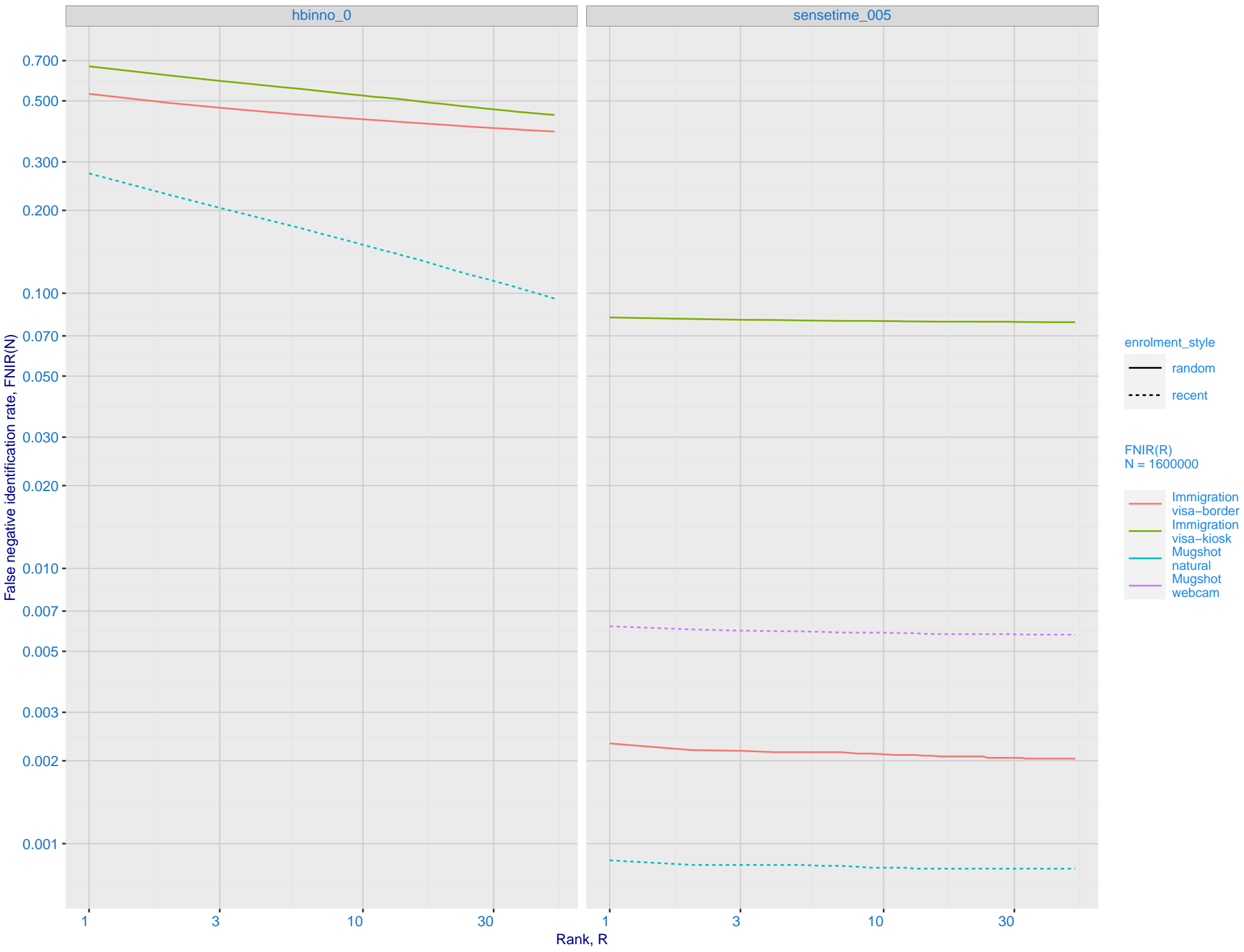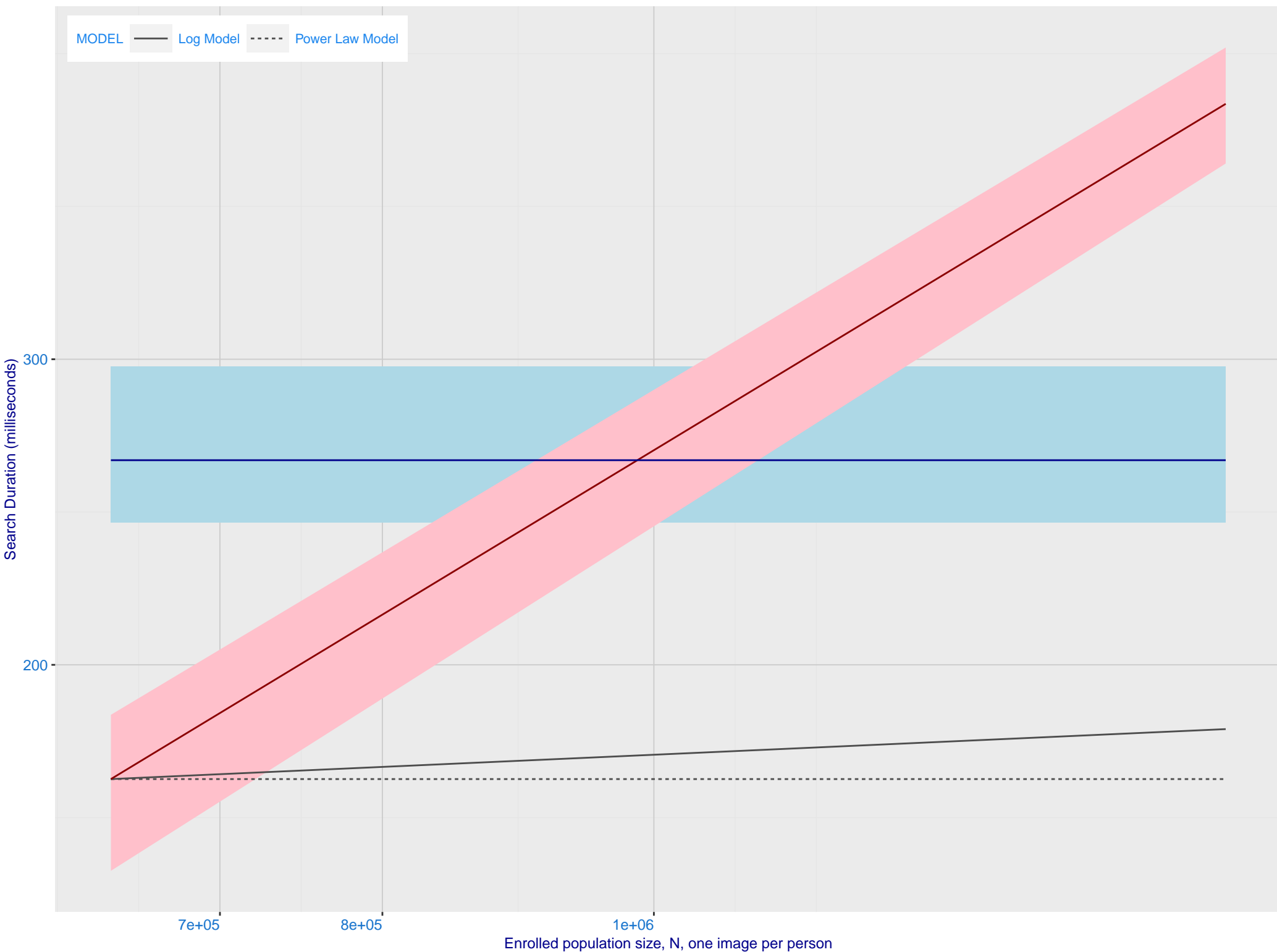
K: Investigational mode: FNIR(N, 1, 0) vs. most accurate (sensetime_005)

L: Investigational mode: FNIR(1600000, R, 0) by probe type

M: 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

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