A: Datasheet

Algorithm: microfocus_0

Developer: MicroFocus

Submission Date: 2018_02_12

Template size: 256 bytes

Template time (2.5 percentile): 416 msec

Template time (median): 527 msec

Template time (97.5 percentile): 631 msec

Investigation:

Frontal mugshot ranking 260 (out of 265) –– FNIR(1600000, 0, 1) = 0.5961 vs. lowest 0.0009 from sensetime_005

Mugshot webcam ranking 224 (out of 227) –– FNIR(1600000, 0, 1) = 0.7823 vs. lowest 0.0062 from sensetime_005

Immigration visa–border ranking 136 (out of 148) –– FNIR(1600000, 0, 1) = 0.7130 vs. lowest 0.0013 from visionlabs_010

Immigration visa–kiosk ranking 138 (out of 145) –– FNIR(1600000, 0, 1) = 0.9121 vs. lowest 0.0568 from hr_000
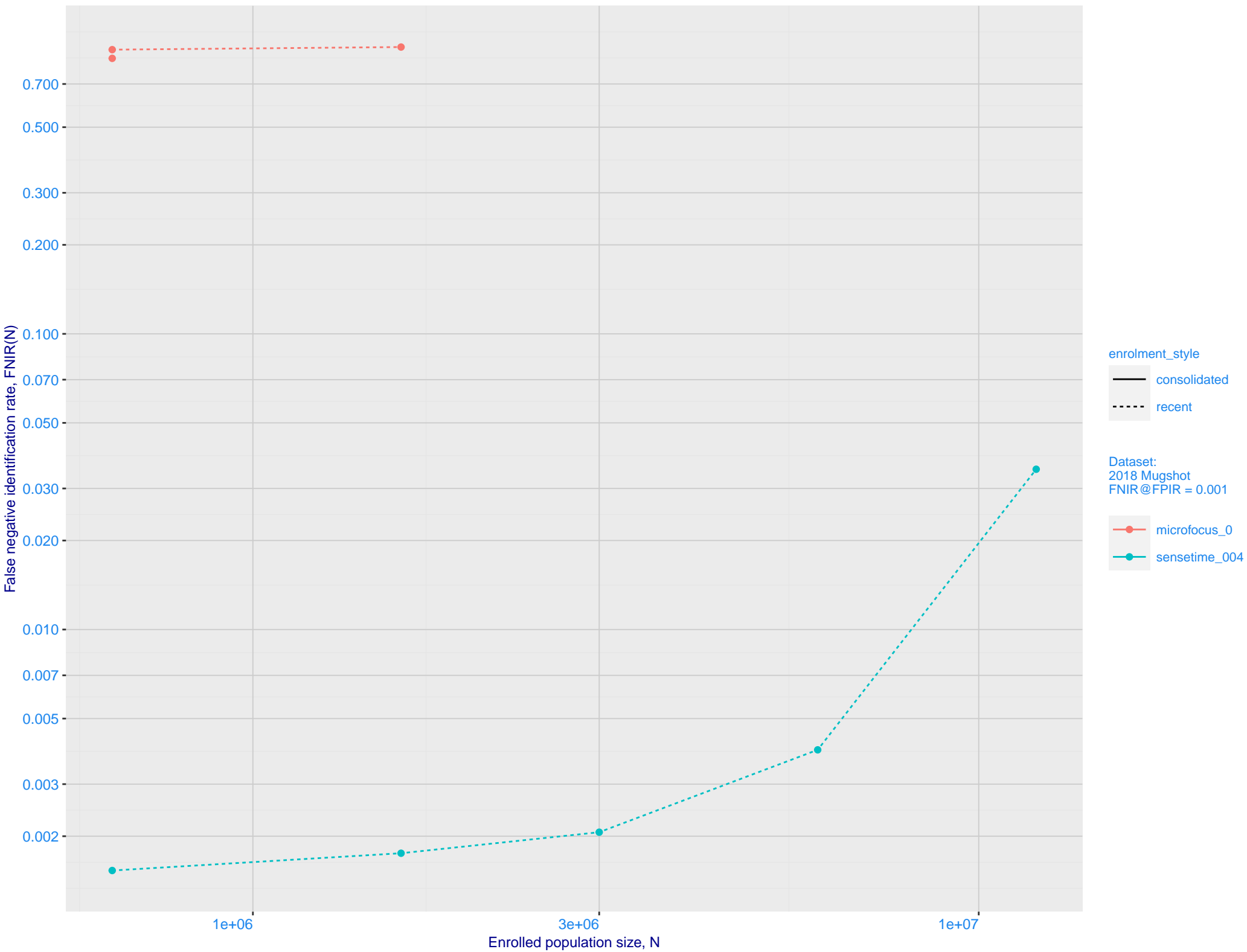
Identification:

Frontal mugshot ranking 252 (out of 265) –– FNIR(1600000, T, L+1) = 0.9332, FPIR=0.001000 vs. lowest 0.0018 from sensetime_004

Mugshot webcam ranking 219 (out of 225) –– FNIR(1600000, T, L+1) = 0.9849, FPIR=0.001000 vs. lowest 0.0122 from sensetime_003
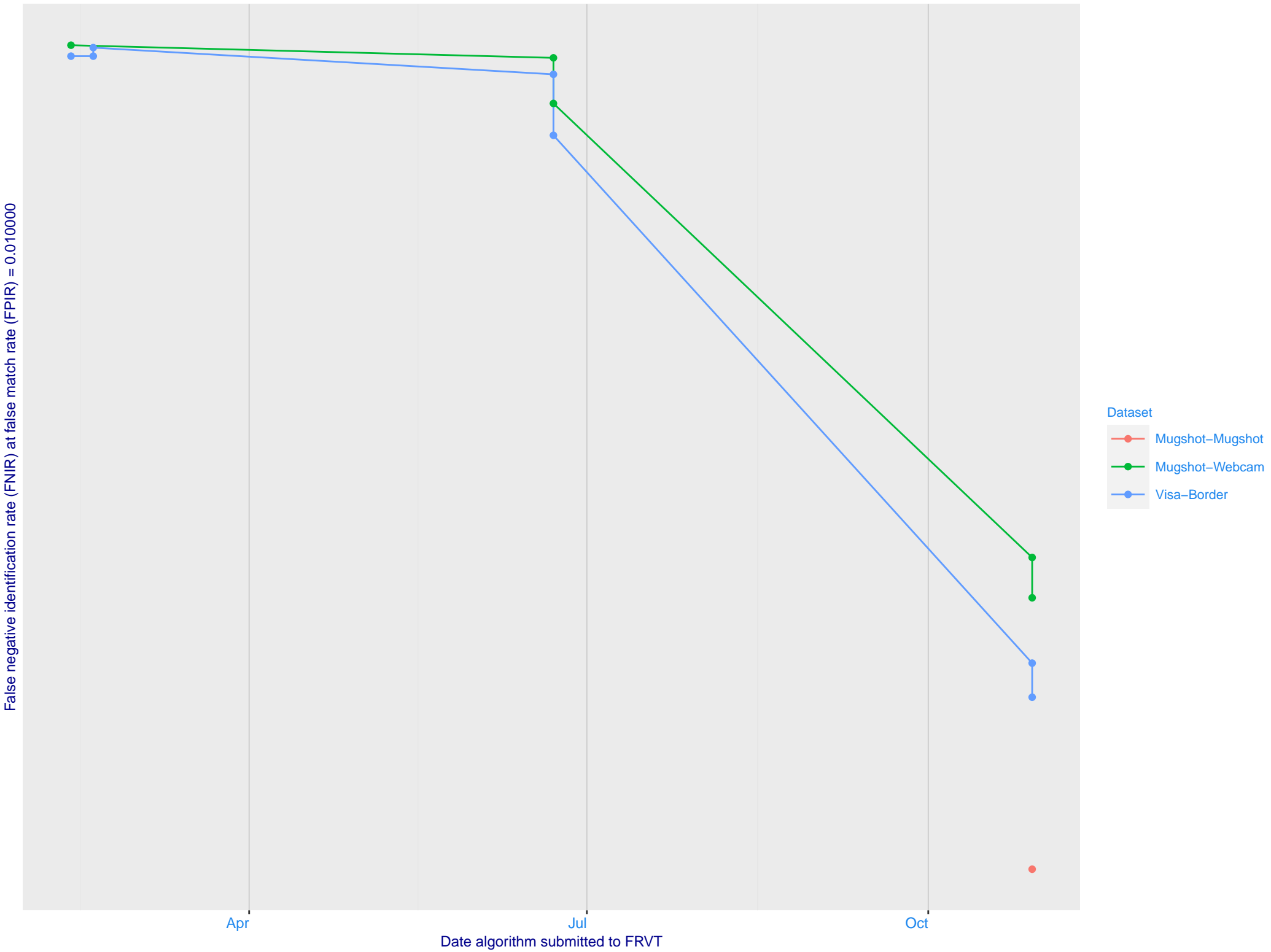
Immigration visa–border ranking 132 (out of 146) –– FNIR(1600000, T, L+1) = 0.9844, FPIR=0.001000 vs. lowest 0.0049 from hr_000

Immigration visa–kiosk ranking 125 (out of 141) –– FNIR(1600000, T, L+1) = 0.9931, FPIR=0.001000 vs. lowest 0.0996 from hr_000
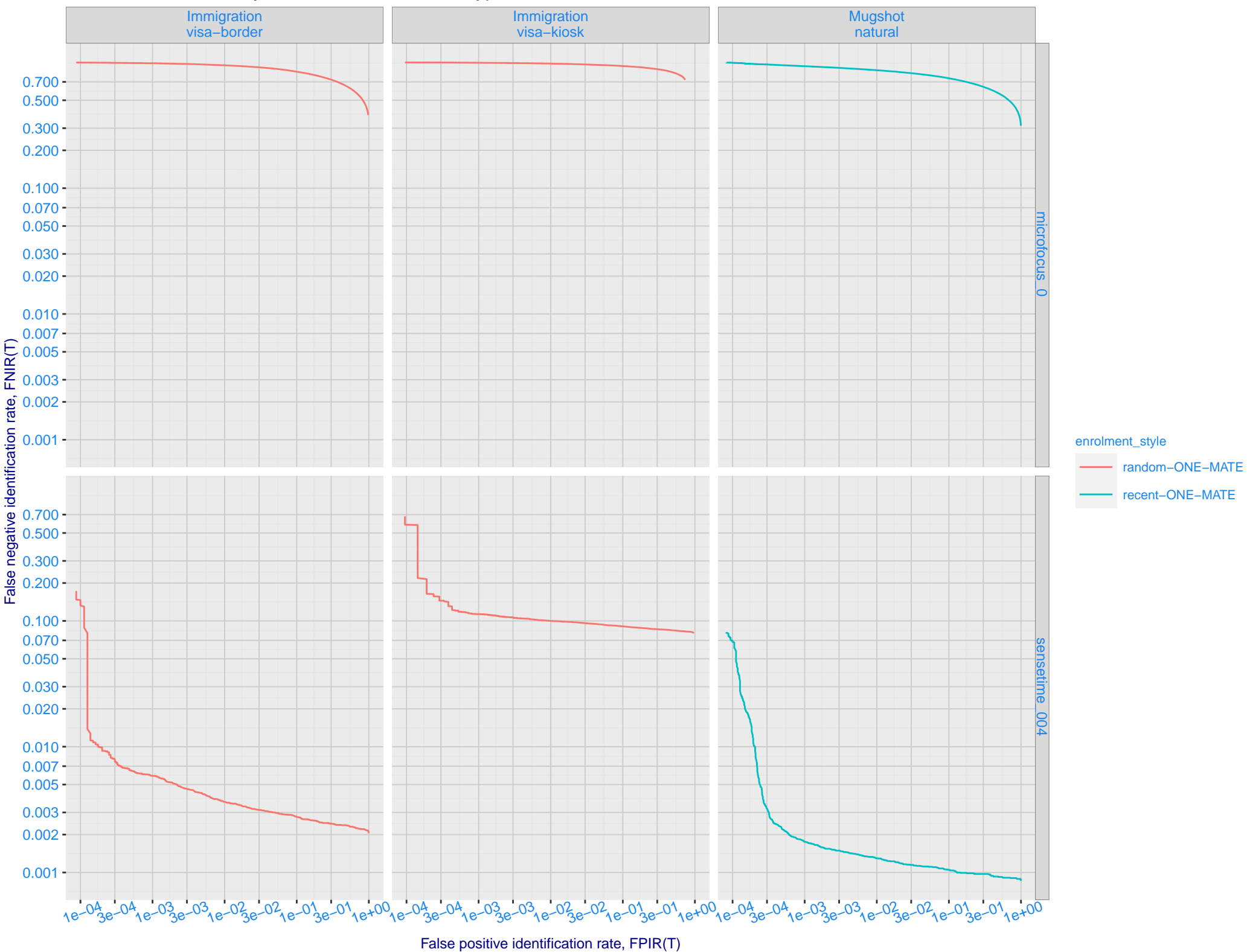
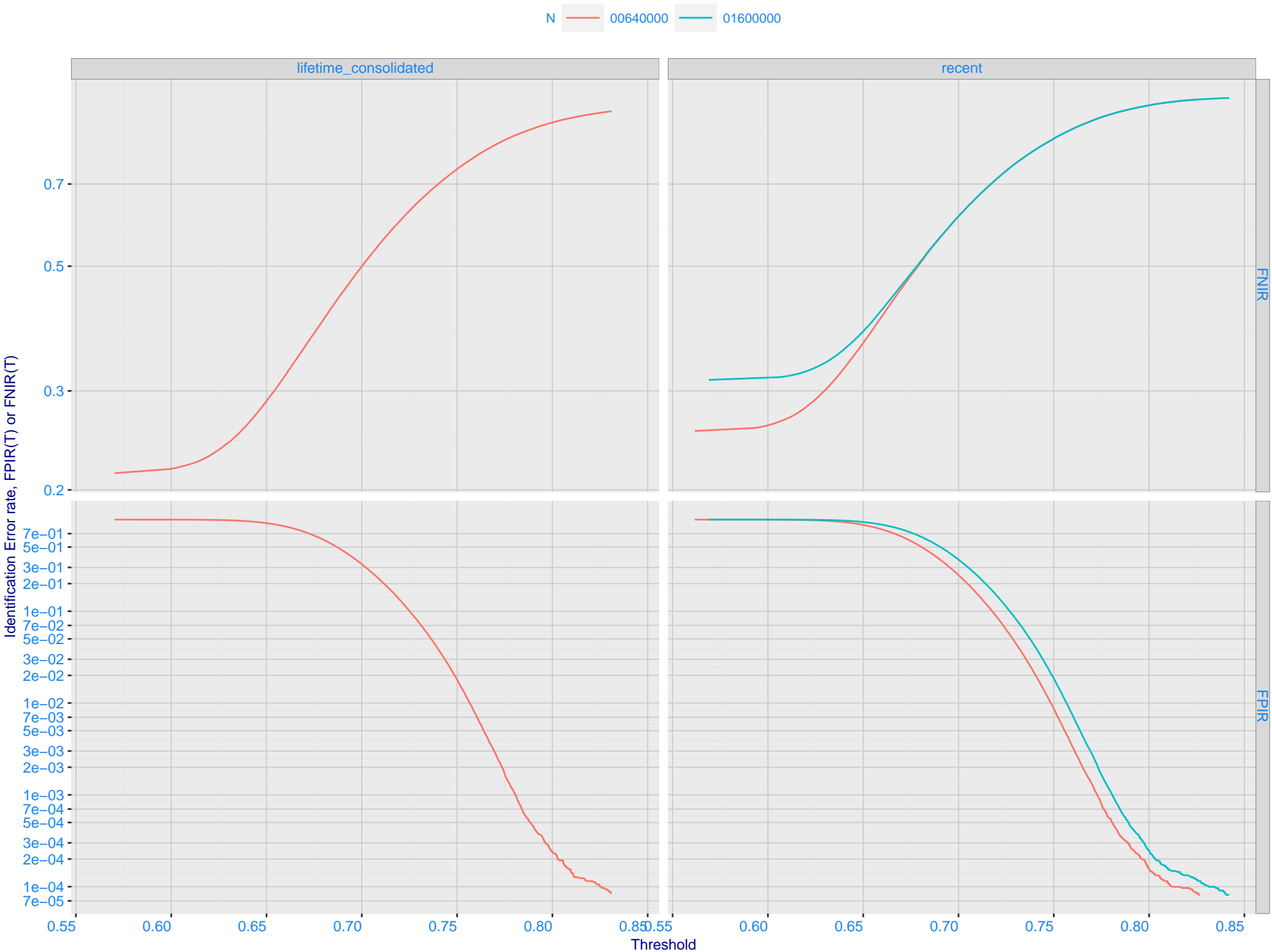B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime_004)

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

Dataset
- Mugshot–Mugshot
- Mugshot–Webcam
- Visa–Border

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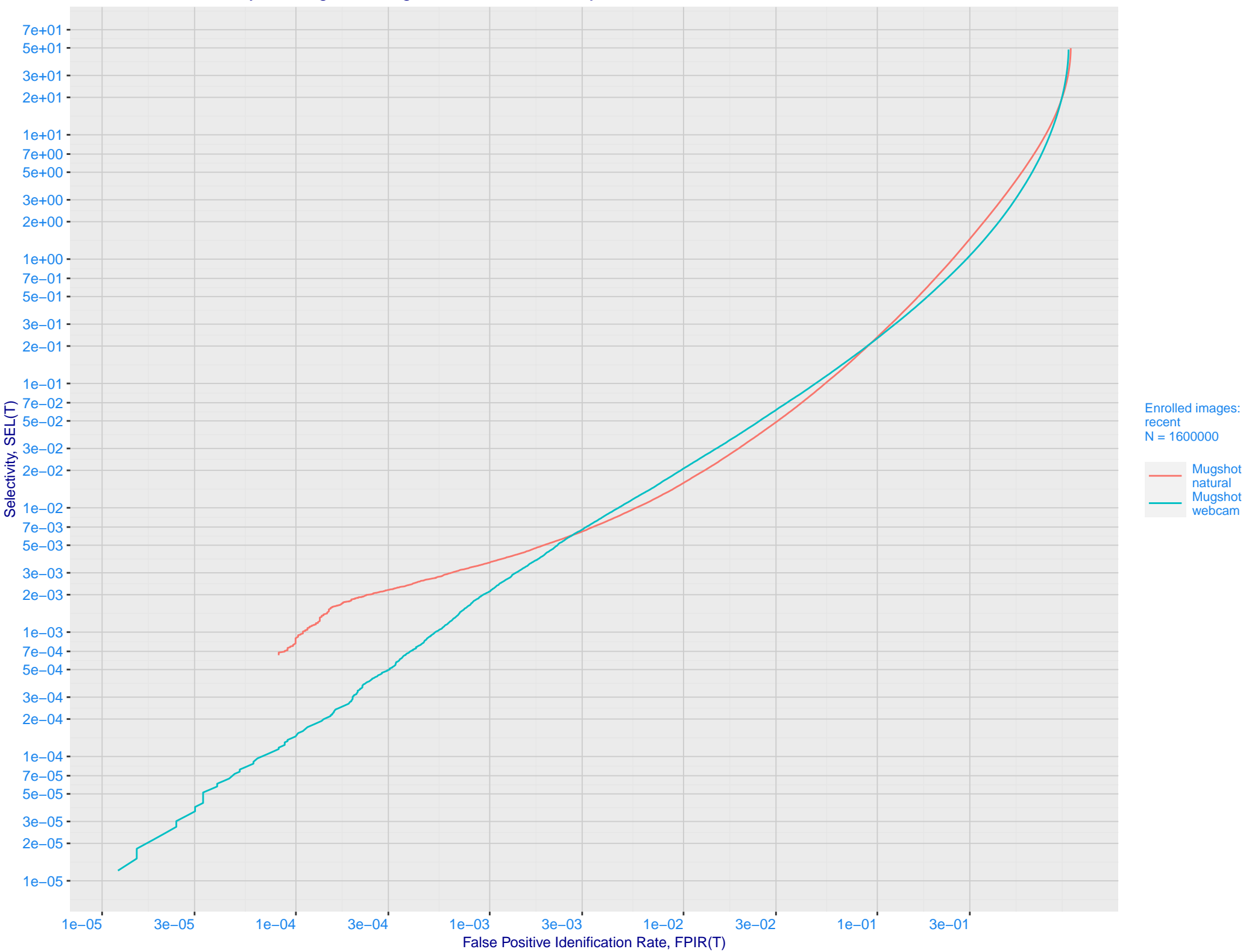
Date algorithm submitted to FRVT

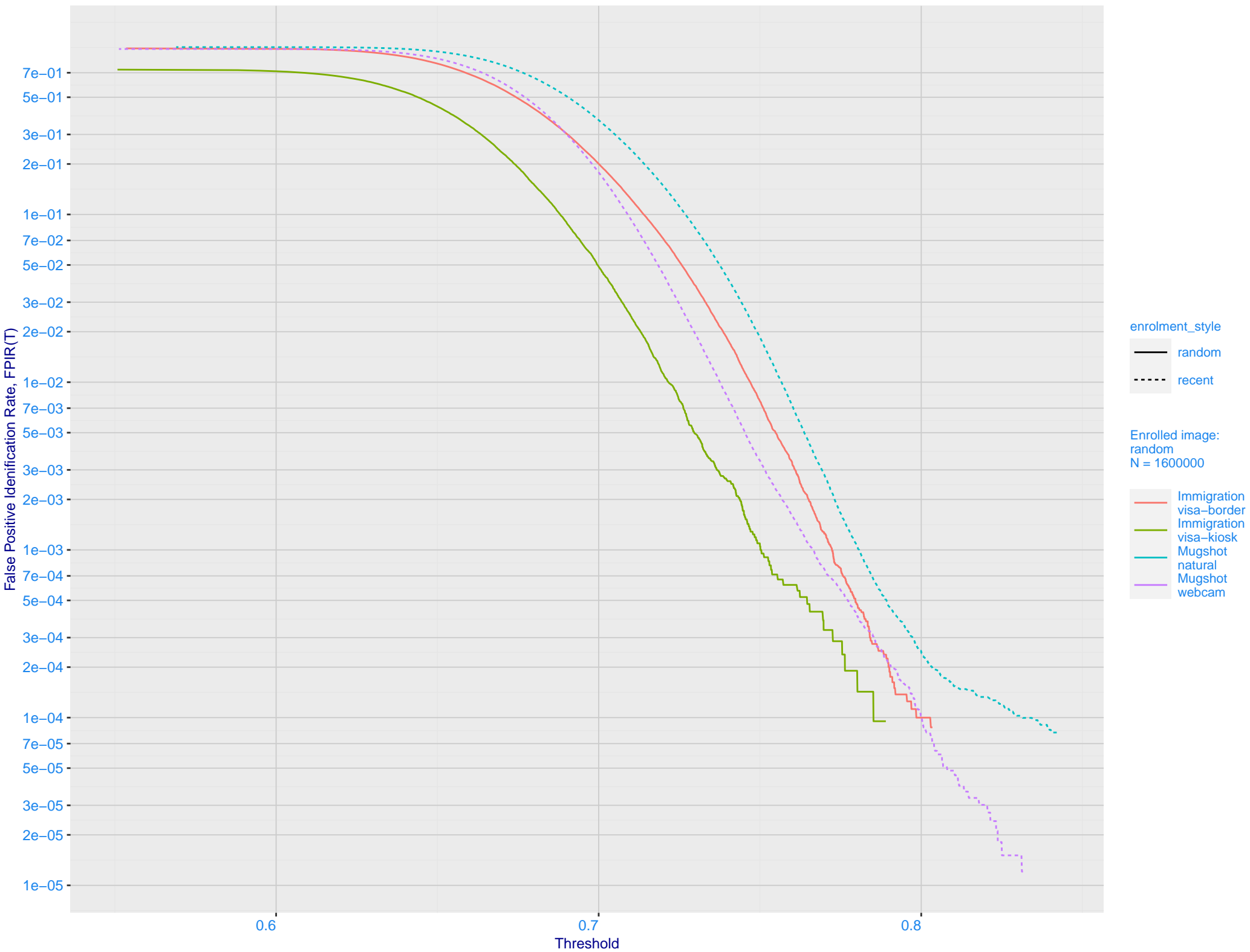D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals

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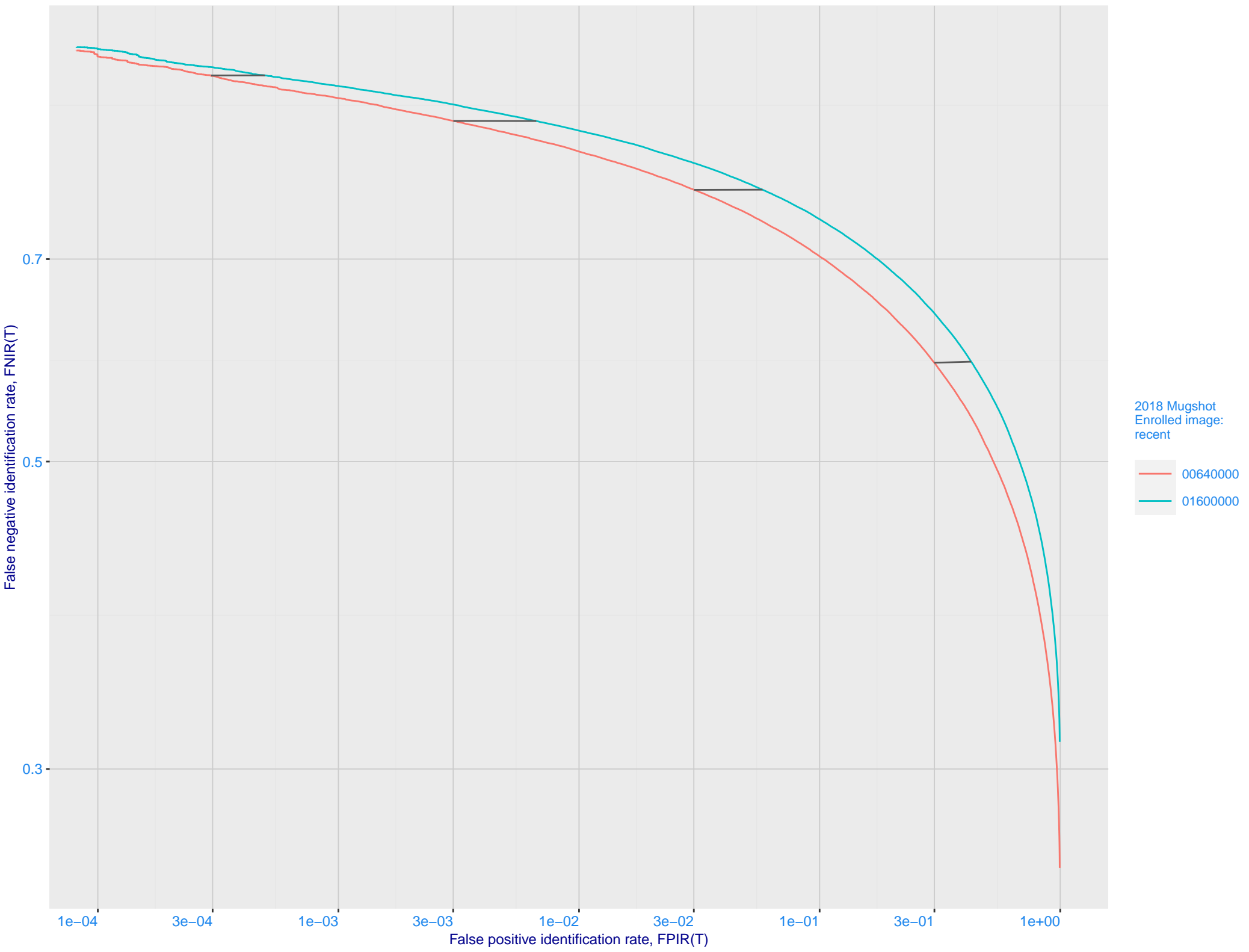
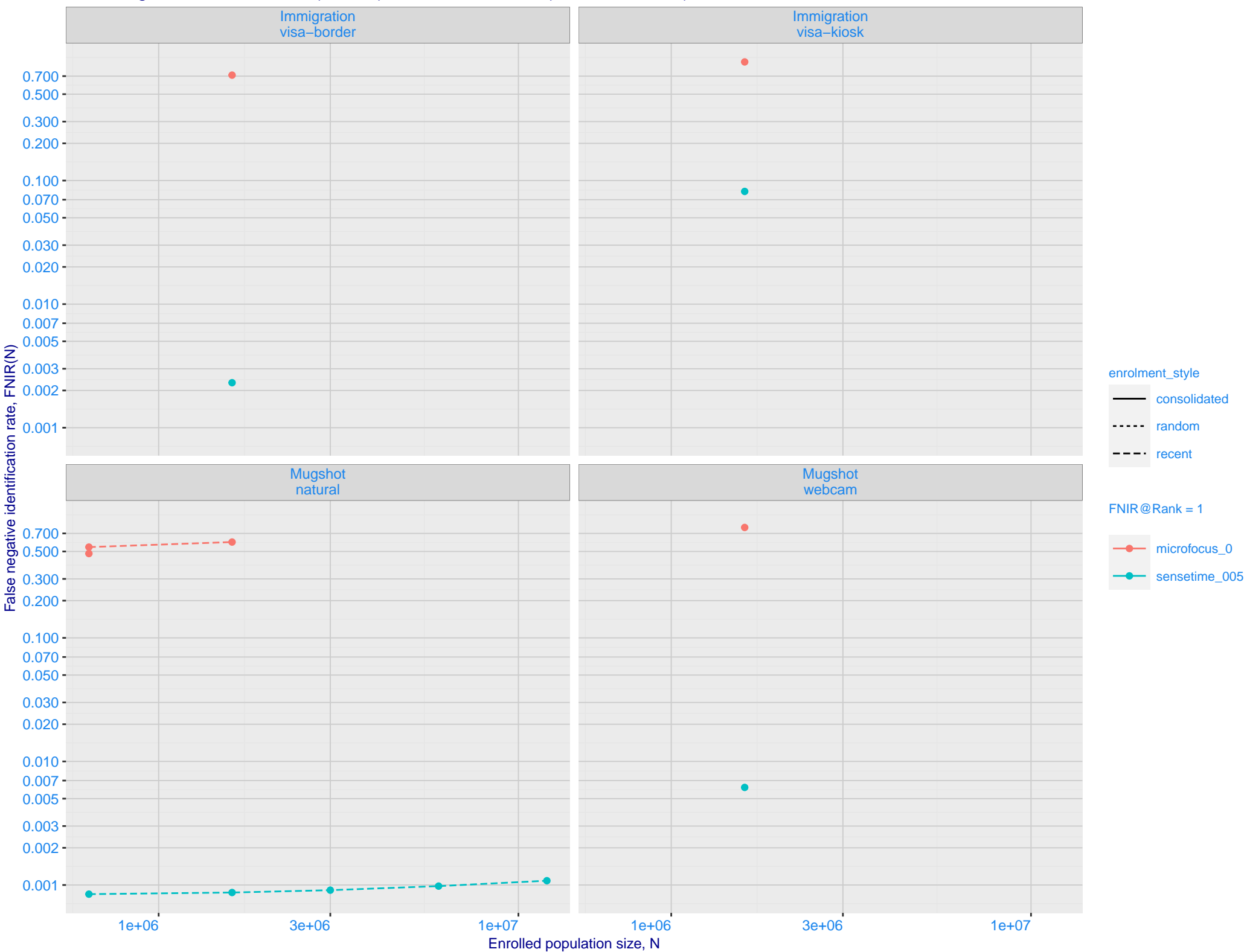F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate

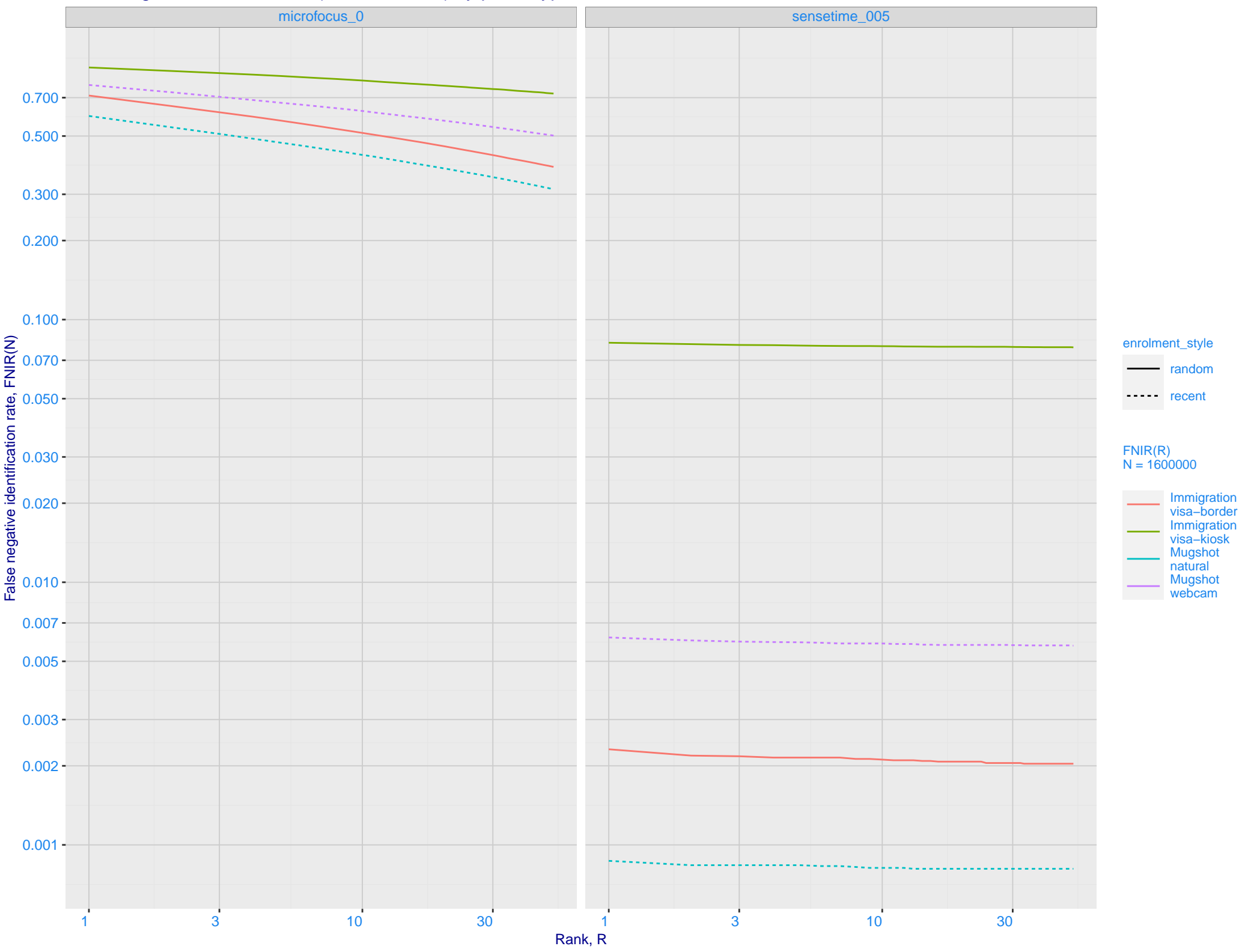G: FPIR dependence on T by probe type for N = 1600000 subjects

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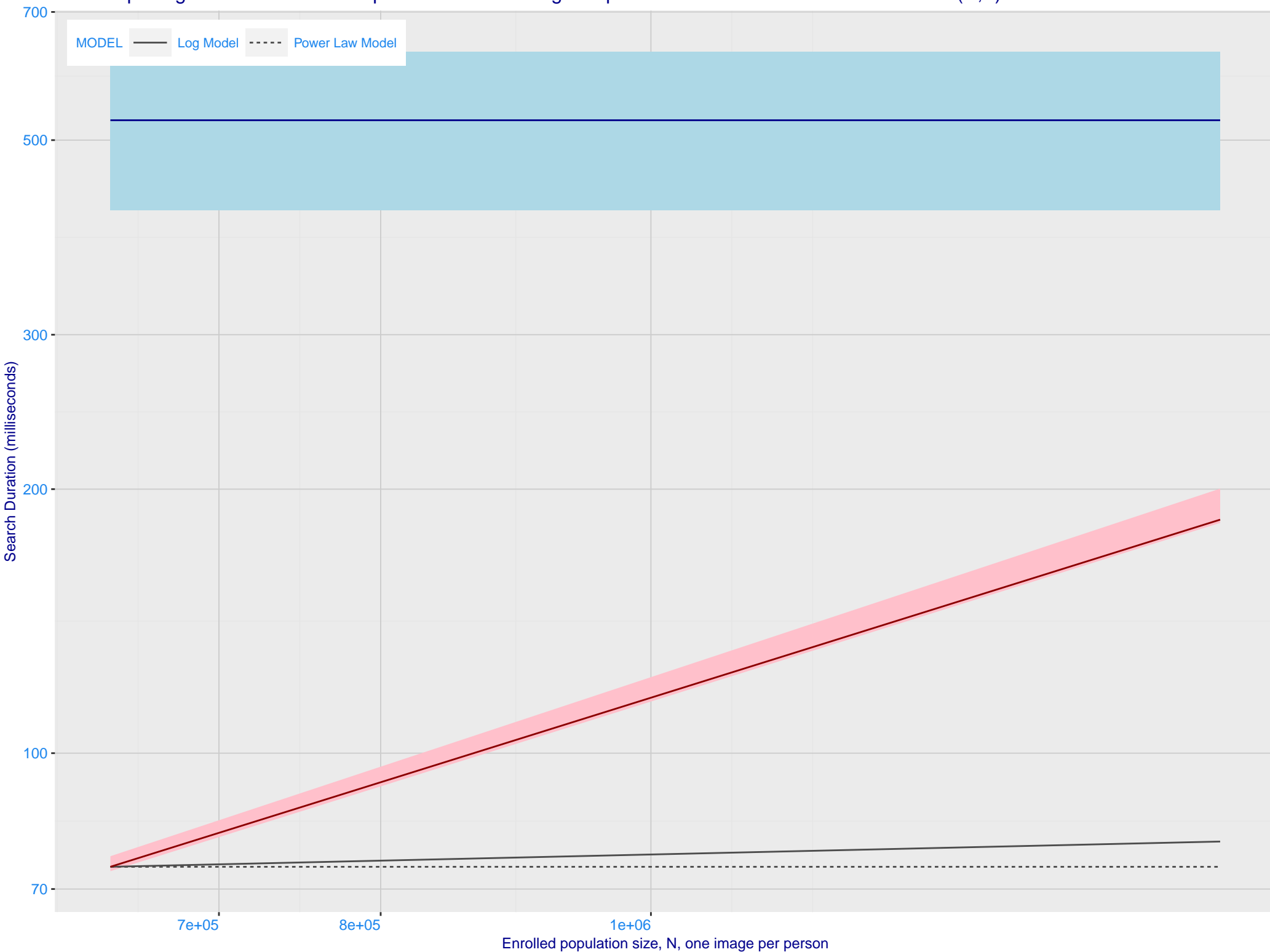
I: Investigational mode: FNIR(N, 1, 0) vs. most accurate (sensetime_005)

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