A: Datasheet

Algorithm: incode_2

Developer: Incode Technologies Inc

Submission Date: 2018_10_29

Template size: 2048 bytes

Template time (2.5 percentile): 259 msec

Template time (median): 290 msec

Template time (97.5 percentile): 338 msec

Investigation:

Frontal mugshot ranking 153 (out of 259) –– FNIR(1600000, 0, 1) = 0.0178 vs. lowest 0.0009 from sensetime_005

Mugshot webcam ranking 140 (out of 221) –– FNIR(1600000, 0, 1) = 0.0479 vs. lowest 0.0062 from sensetime_005

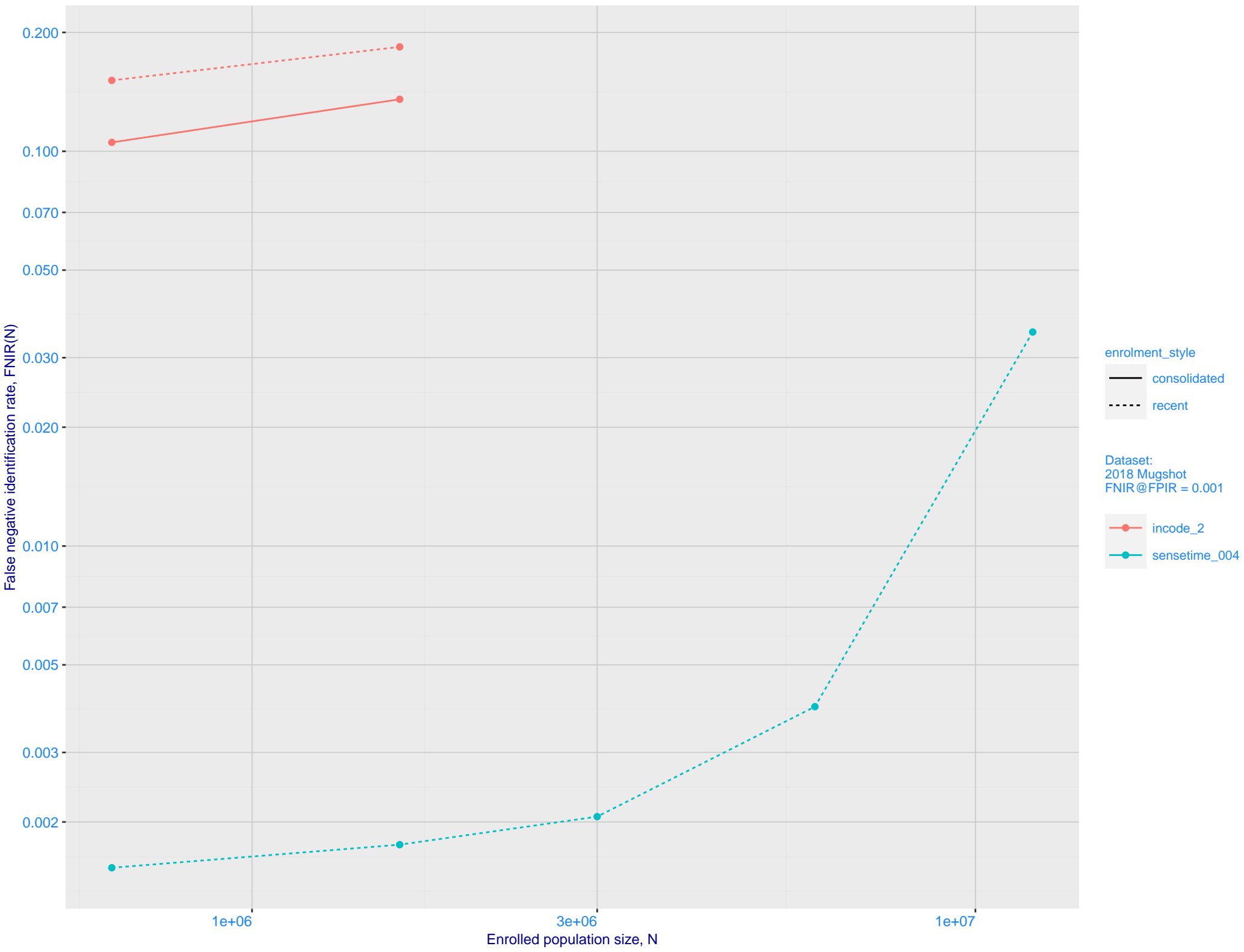Mugshot profile ranking 99 (out of 190) –– FNIR(1600000, 0, 1) = 0.8425 vs. lowest 0.0591 from sensetime_005

Identification:

Frontal mugshot ranking 164 (out of 259) –– FNIR(1600000, T, L+1) = 0.1838, FPIR=0.001000 vs. lowest 0.0018 from sensetime_004
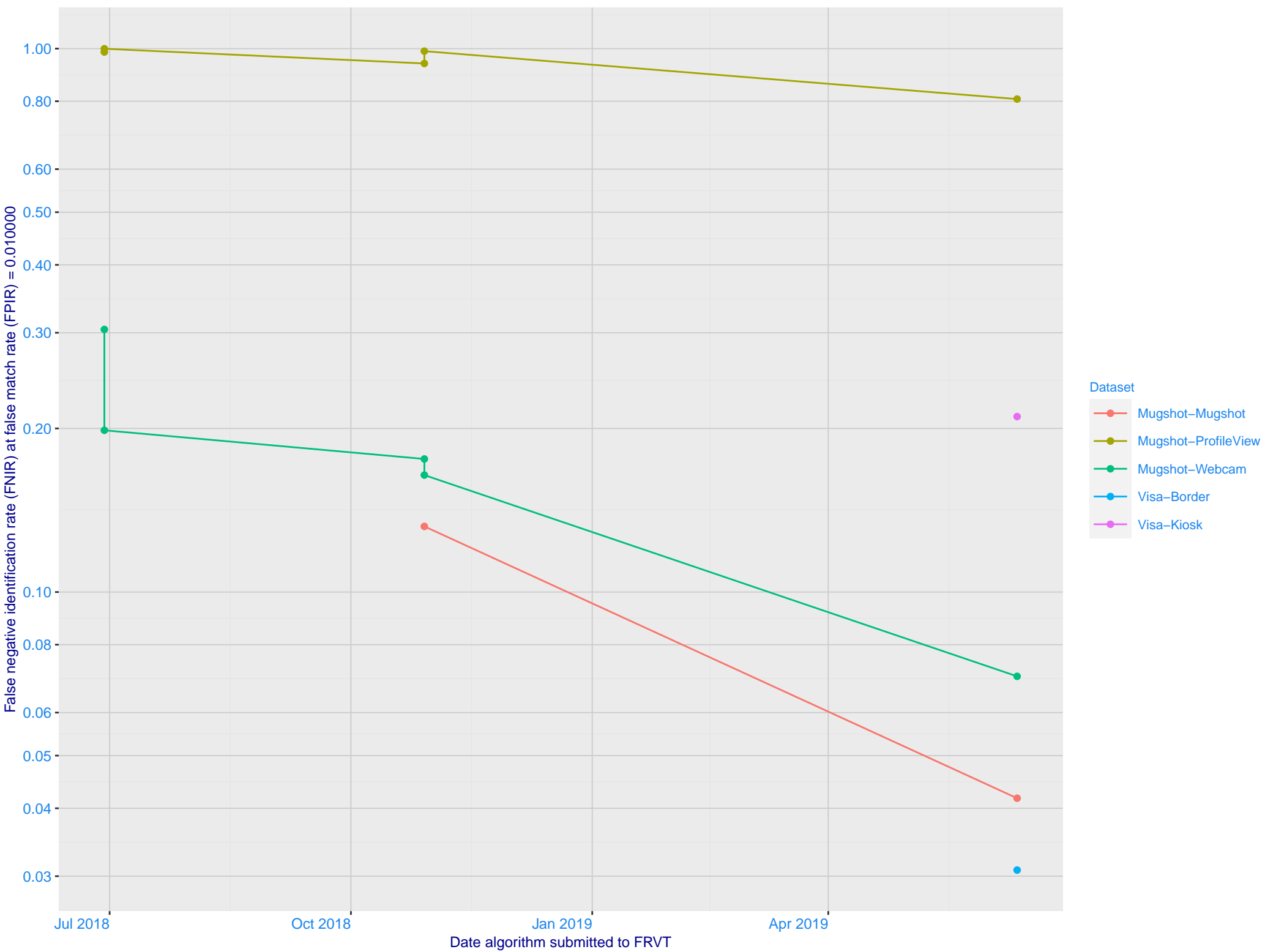
Mugshot webcam ranking 146 (out of 219) –– FNIR(1600000, T, L+1) = 0.2690, FPIR=0.001000 vs. lowest 0.0122 from sensetime_003

Mugshot profile ranking 84 (out of 189) –– FNIR(1600000, T, L+1) = 0.9935, FPIR=0.001000 vs. lowest 0.1733 from sensetime_005
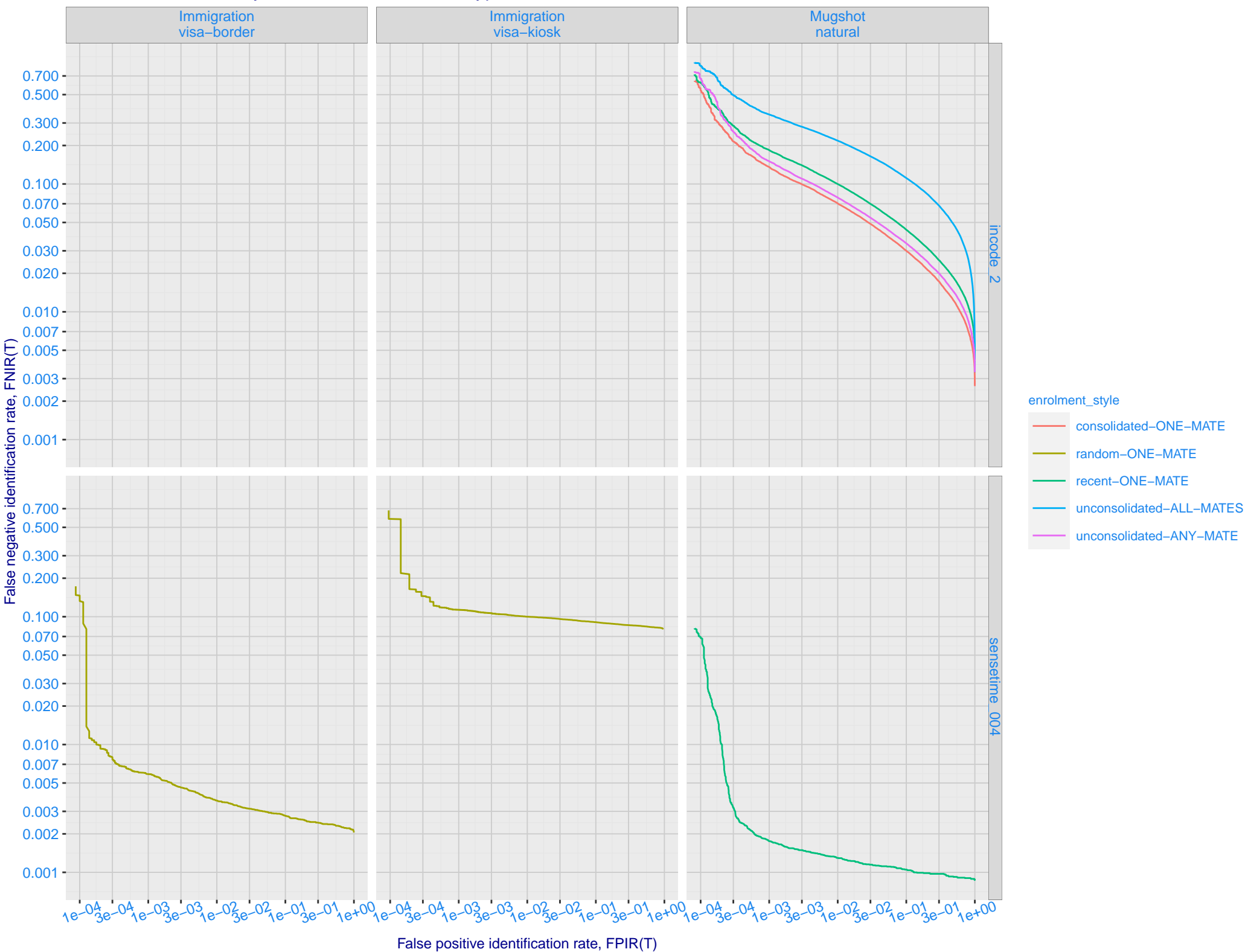
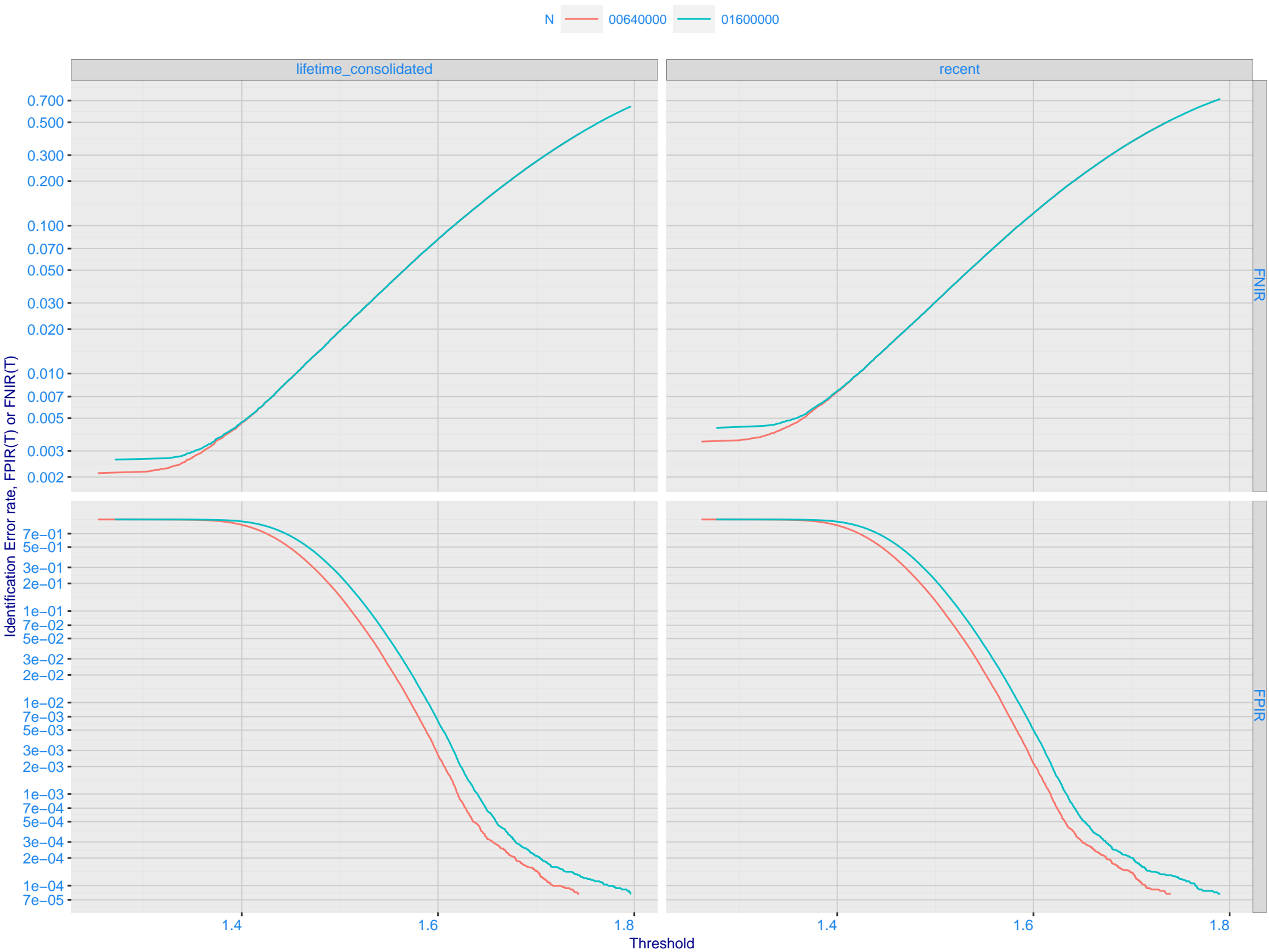B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime_004)

C: Evolution of accuracy for INCODE algorithms on three datasets 2018 – present
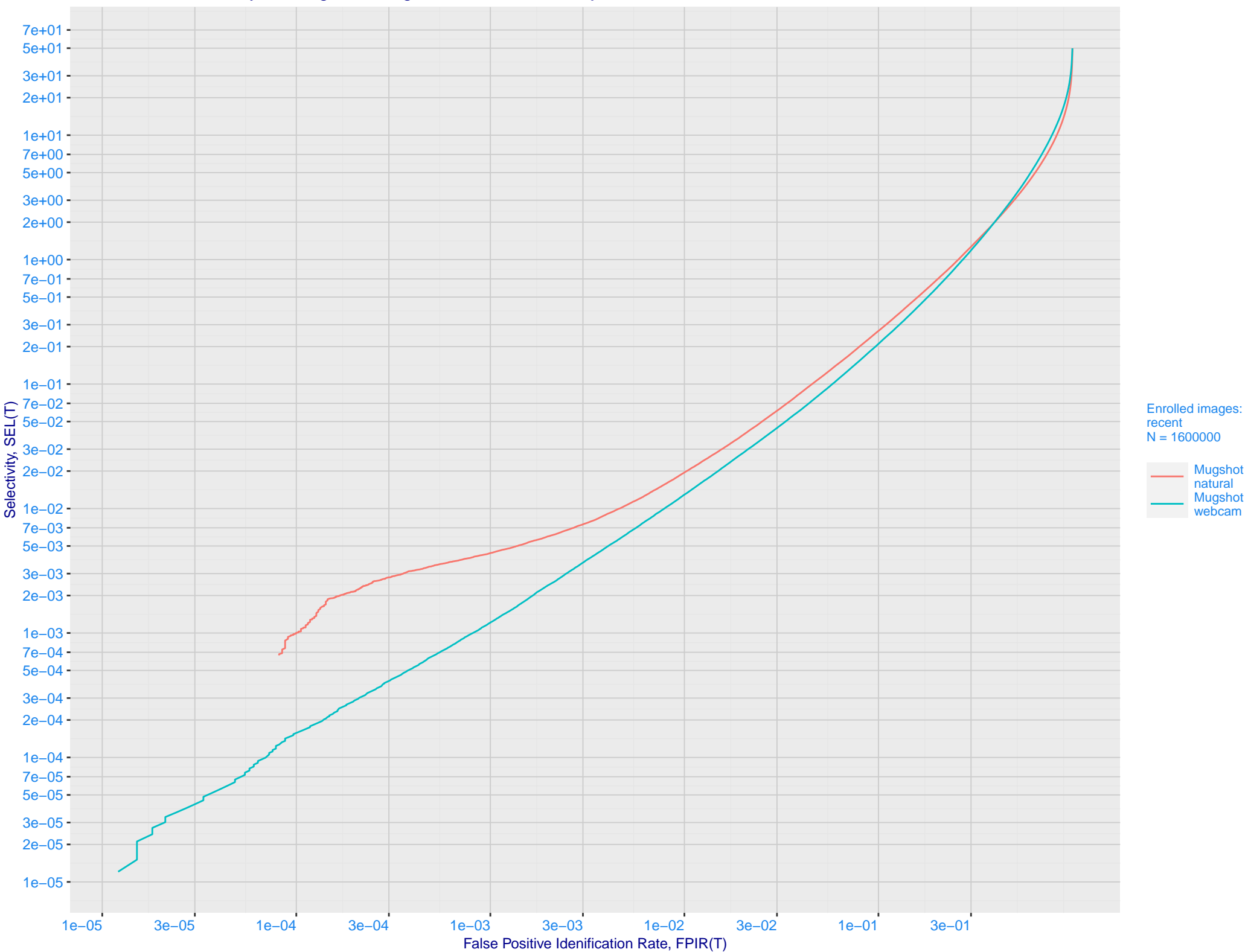
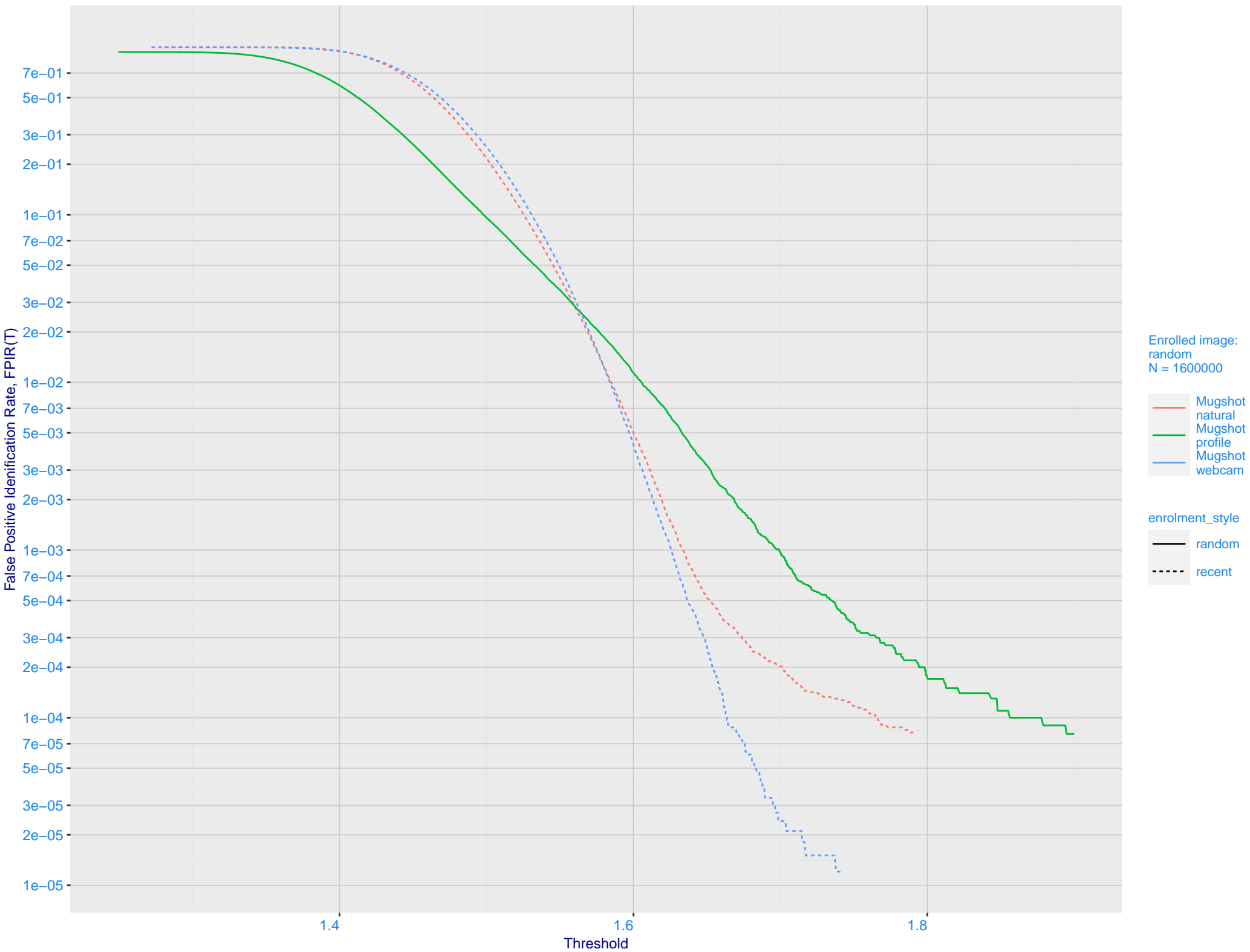D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals

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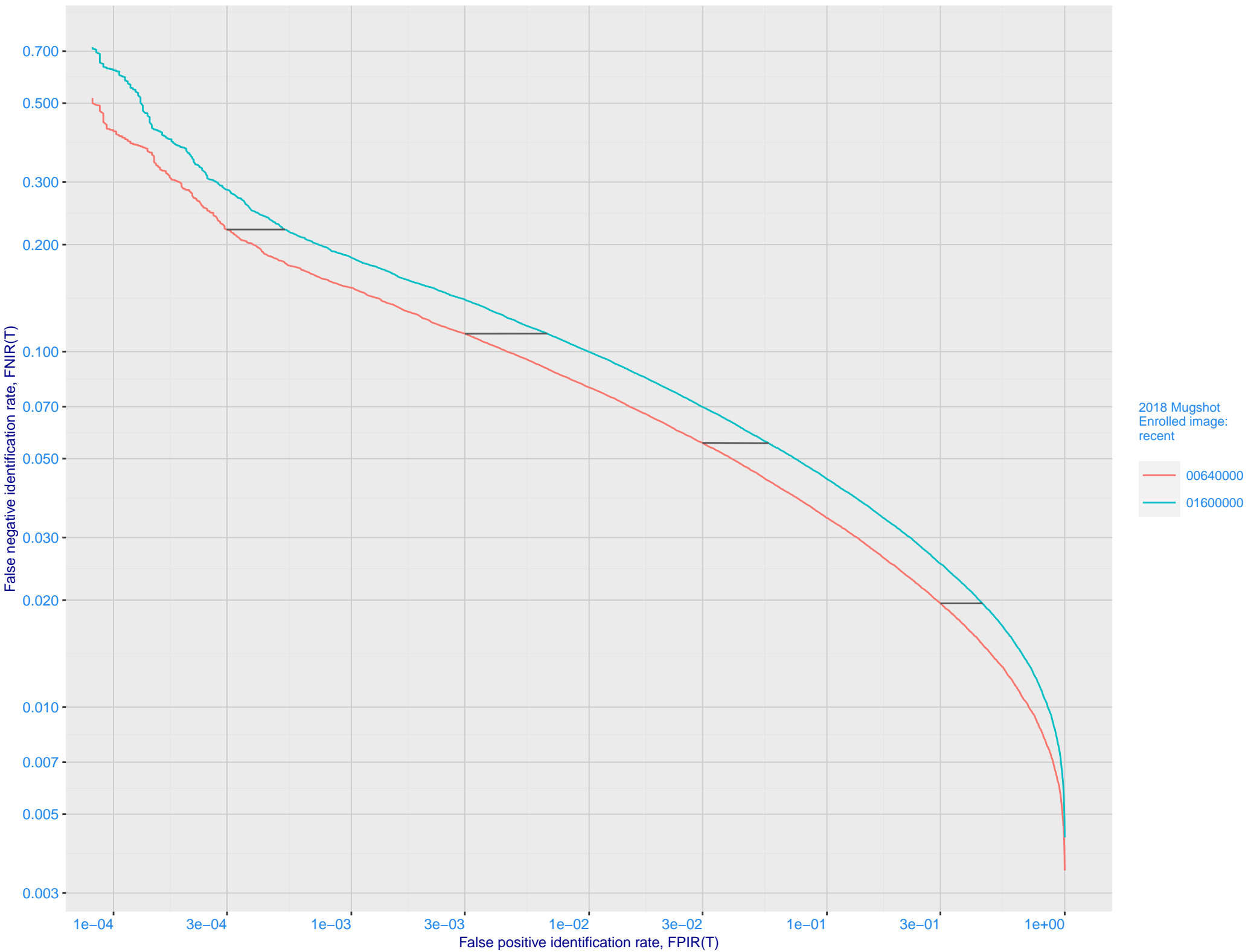
F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate

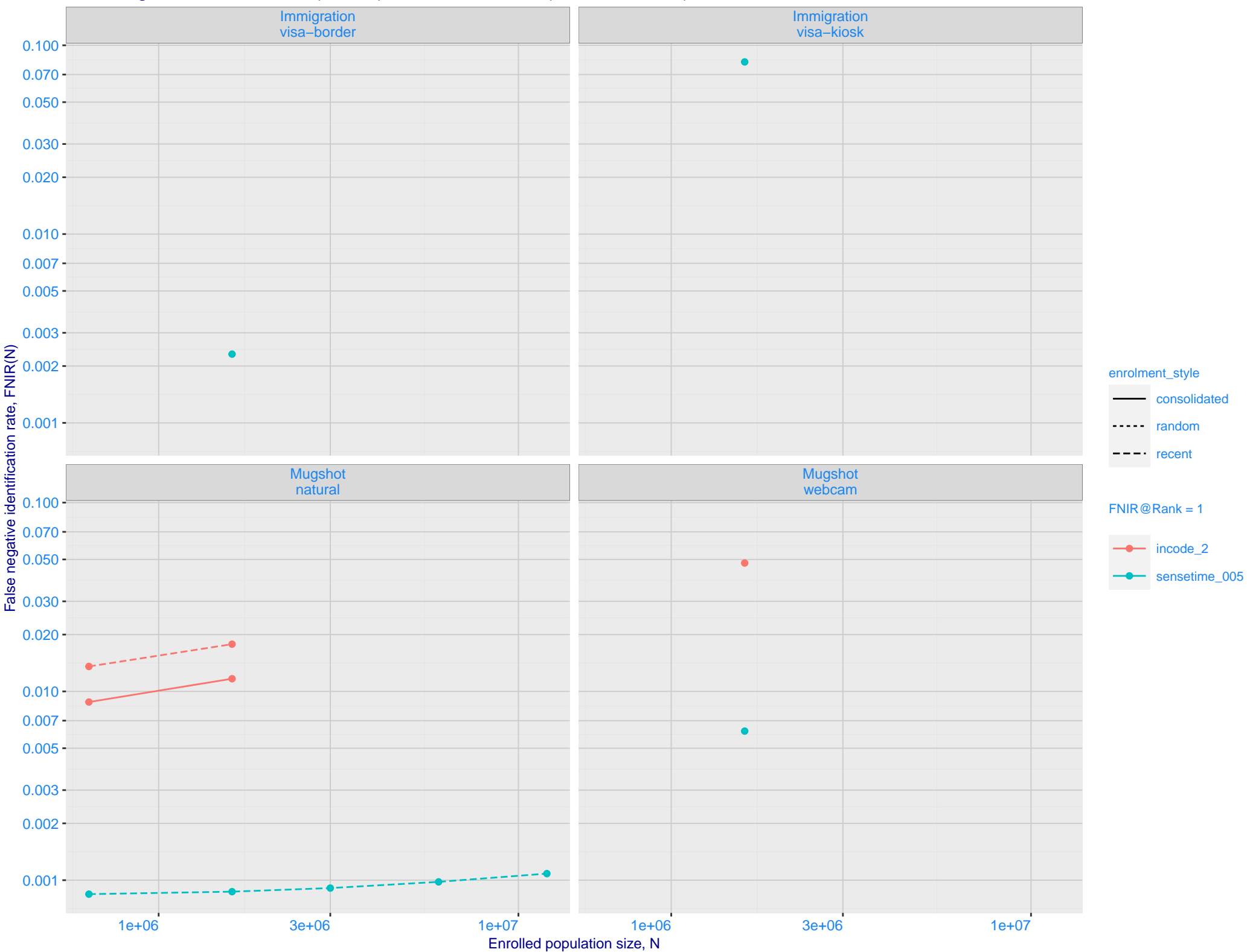G: FPIR dependence on T by probe type for N = 1600000 subjects

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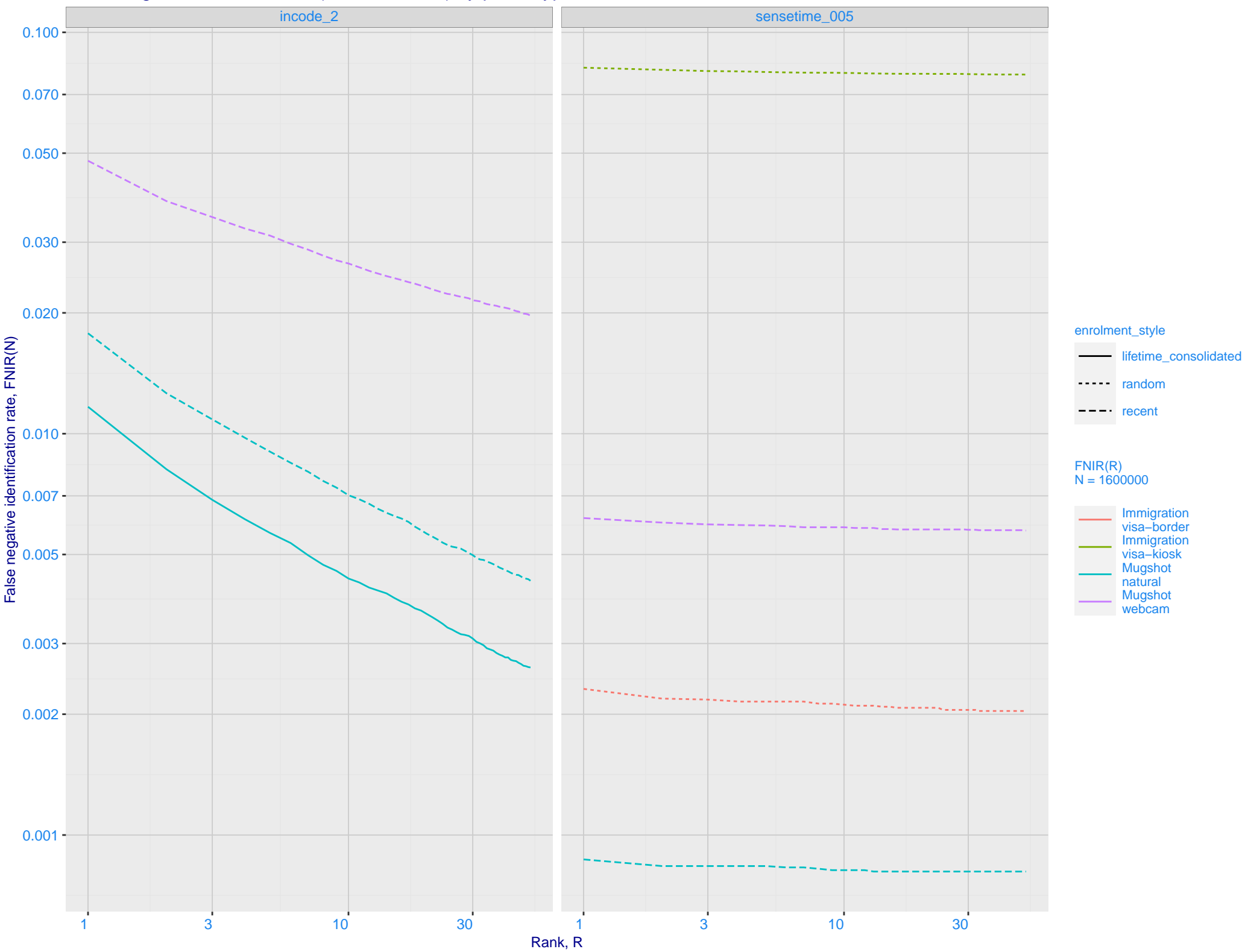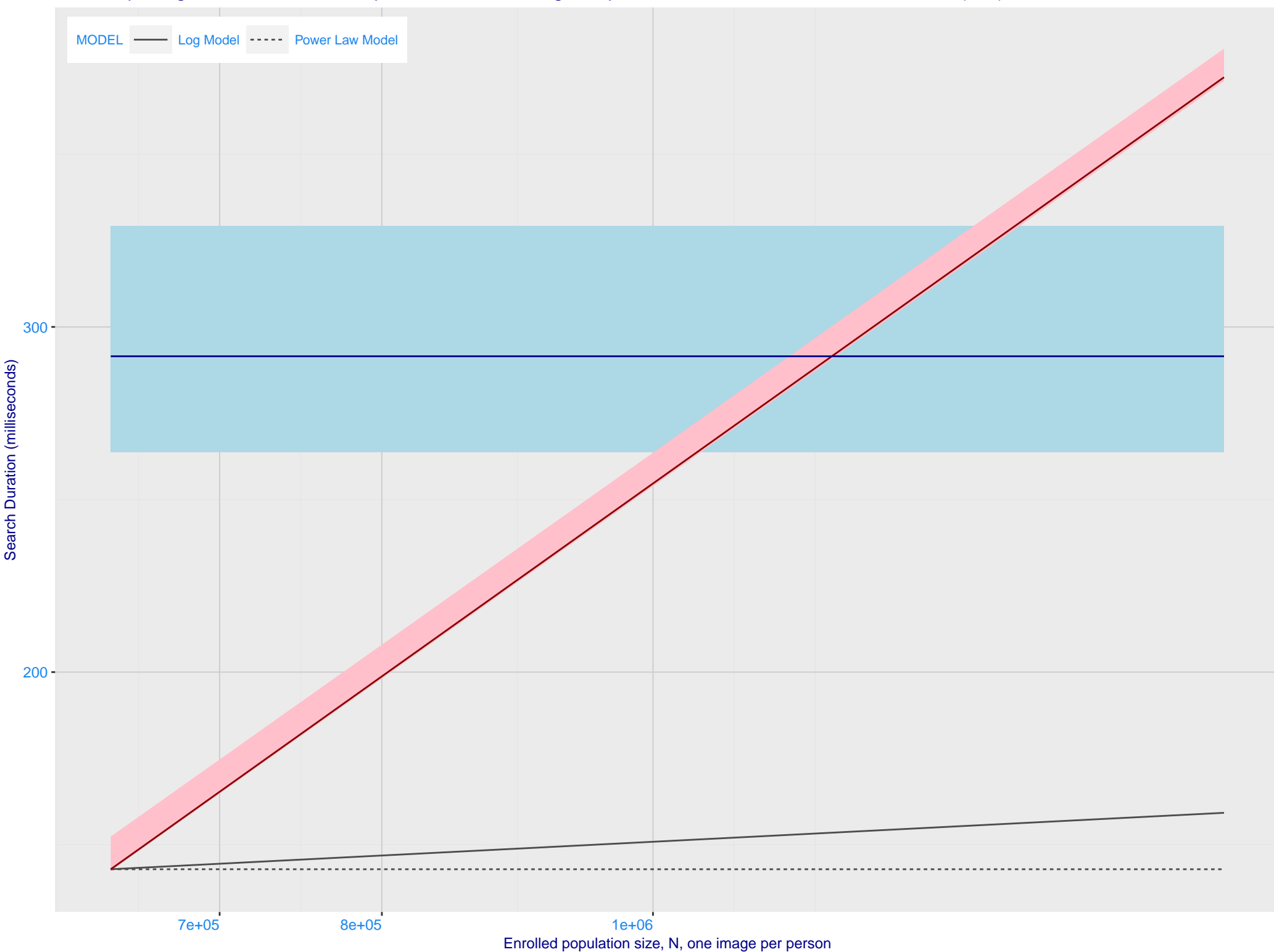
I: Investigational mode: FNIR(N, 1, 0) vs. most accurate (sensetime_005)

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