A: Datasheet

Algorithm: realnetworks_1

Developer: Realnetworks Inc

Submission Date: 2018_06_21

Template size: 4104 bytes

Template time (2.5 percentile): 234 msec

Template time (median): 239 msec

Template time (97.5 percentile): 259 msec

Investigation:

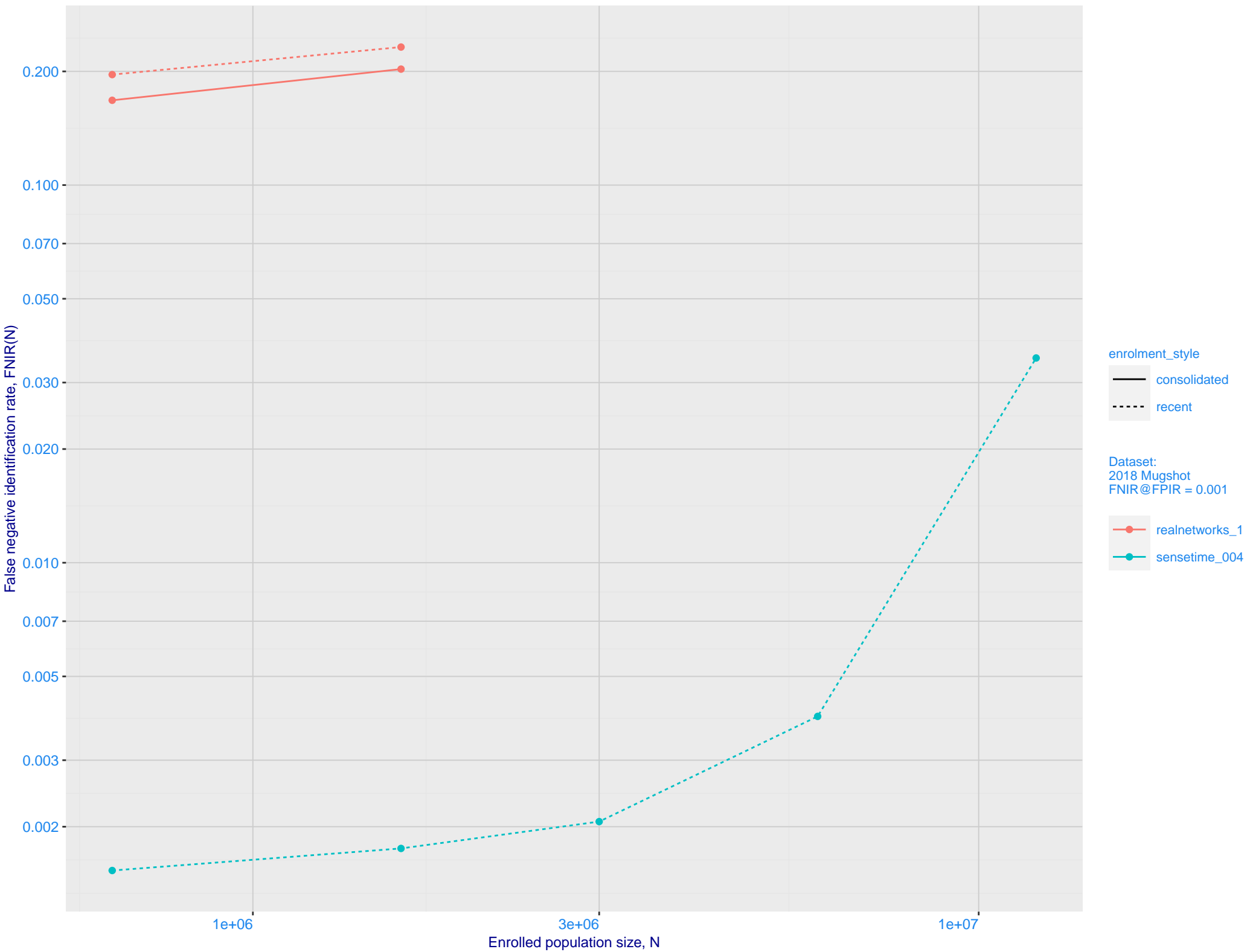Frontal mugshot ranking 194 (out of 265) –– FNIR(1600000, 0, 1) = 0.0402 vs. lowest 0.0009 from sensetime_005

Mugshot webcam ranking 172 (out of 227) –– FNIR(1600000, 0, 1) = 0.0779 vs. lowest 0.0062 from sensetime_005
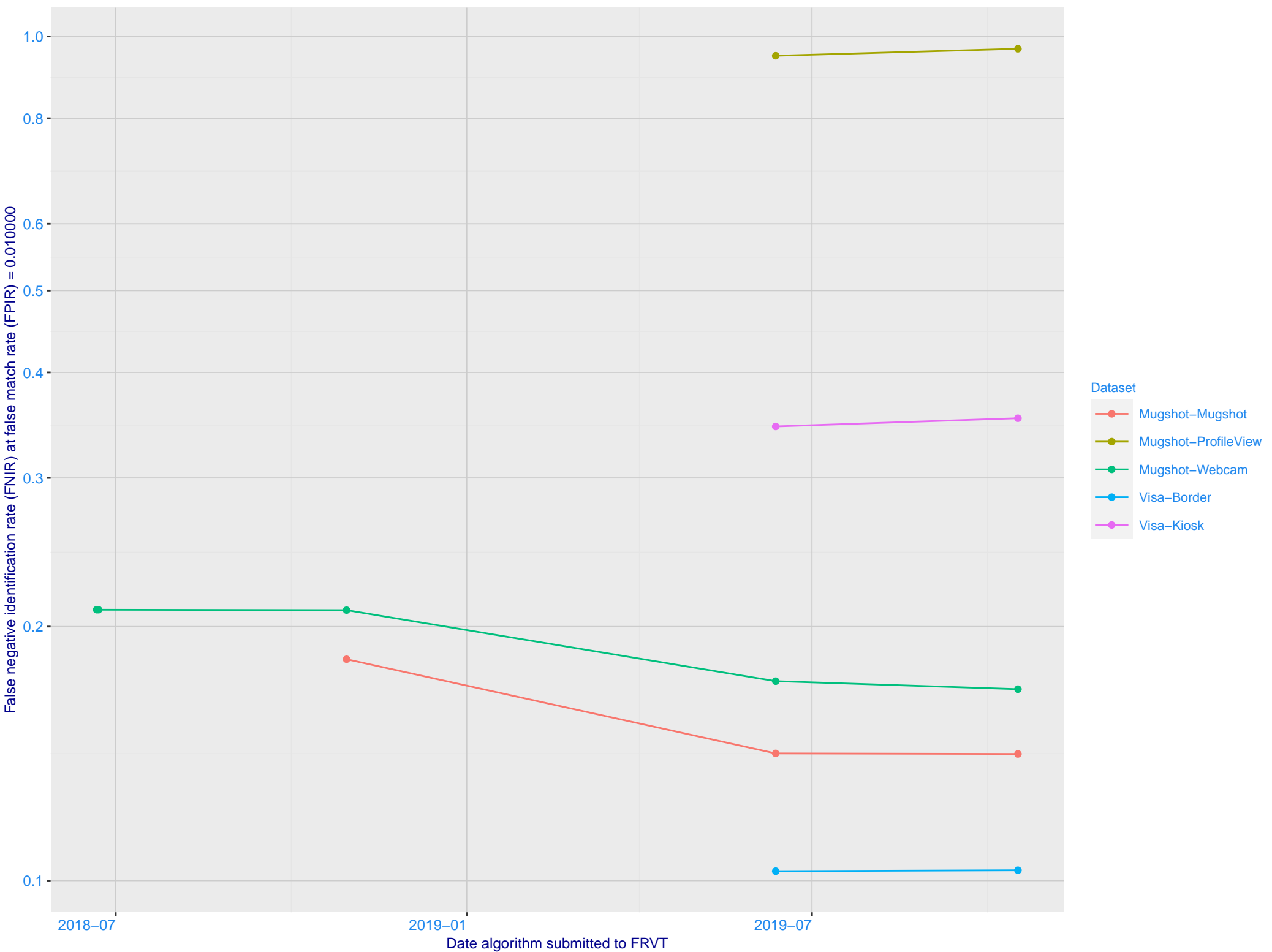
Identification:

Frontal mugshot ranking 182 (out of 265) –– FNIR(1600000, T, L+1) = 0.2320, FPIR=0.001000 vs. lowest 0.0018 from sensetime_004

Mugshot webcam ranking 162 (out of 225) –– FNIR(1600000, T, L+1) = 0.3184, FPIR=0.001000 vs. lowest 0.0122 from sensetime_003
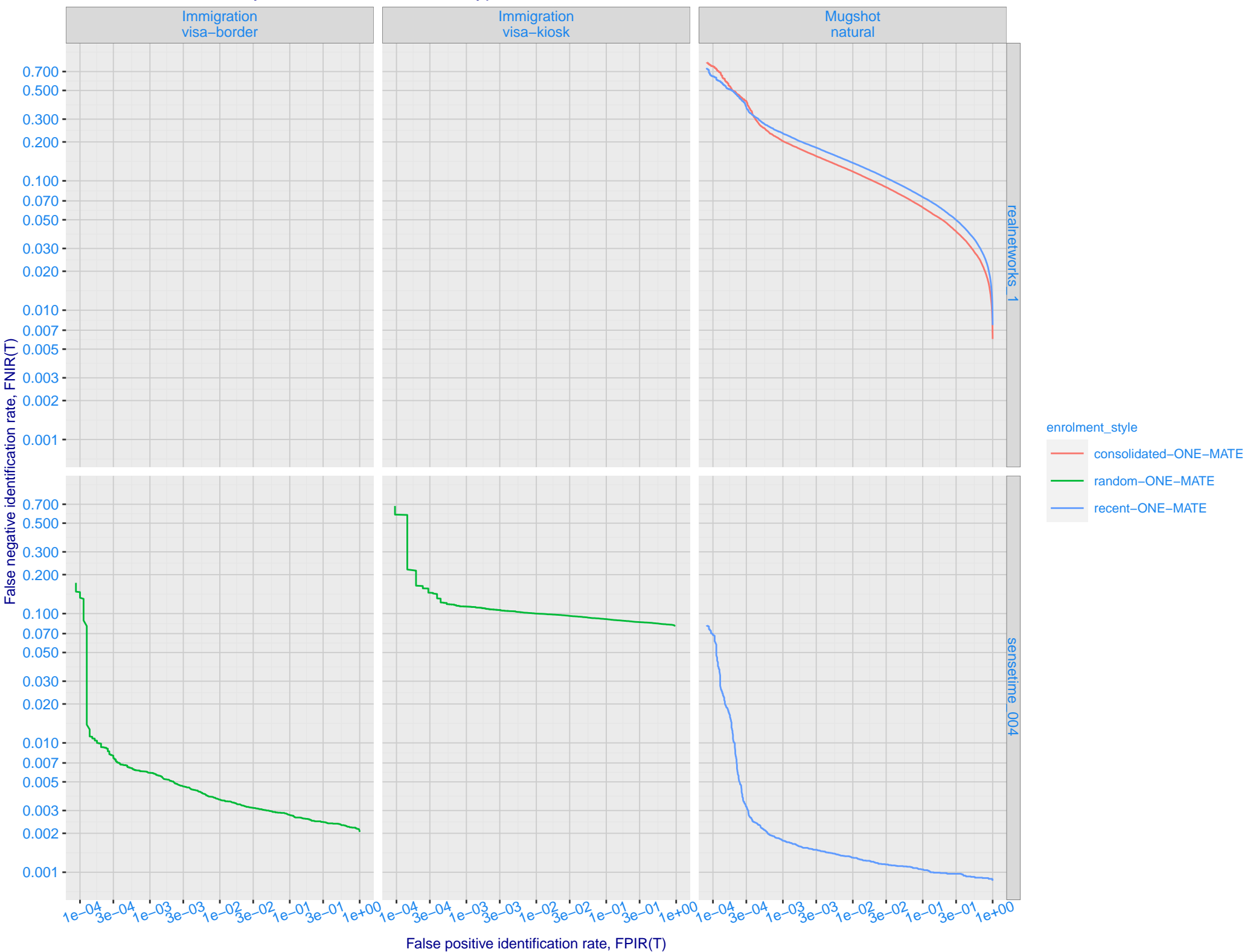
B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime_004)
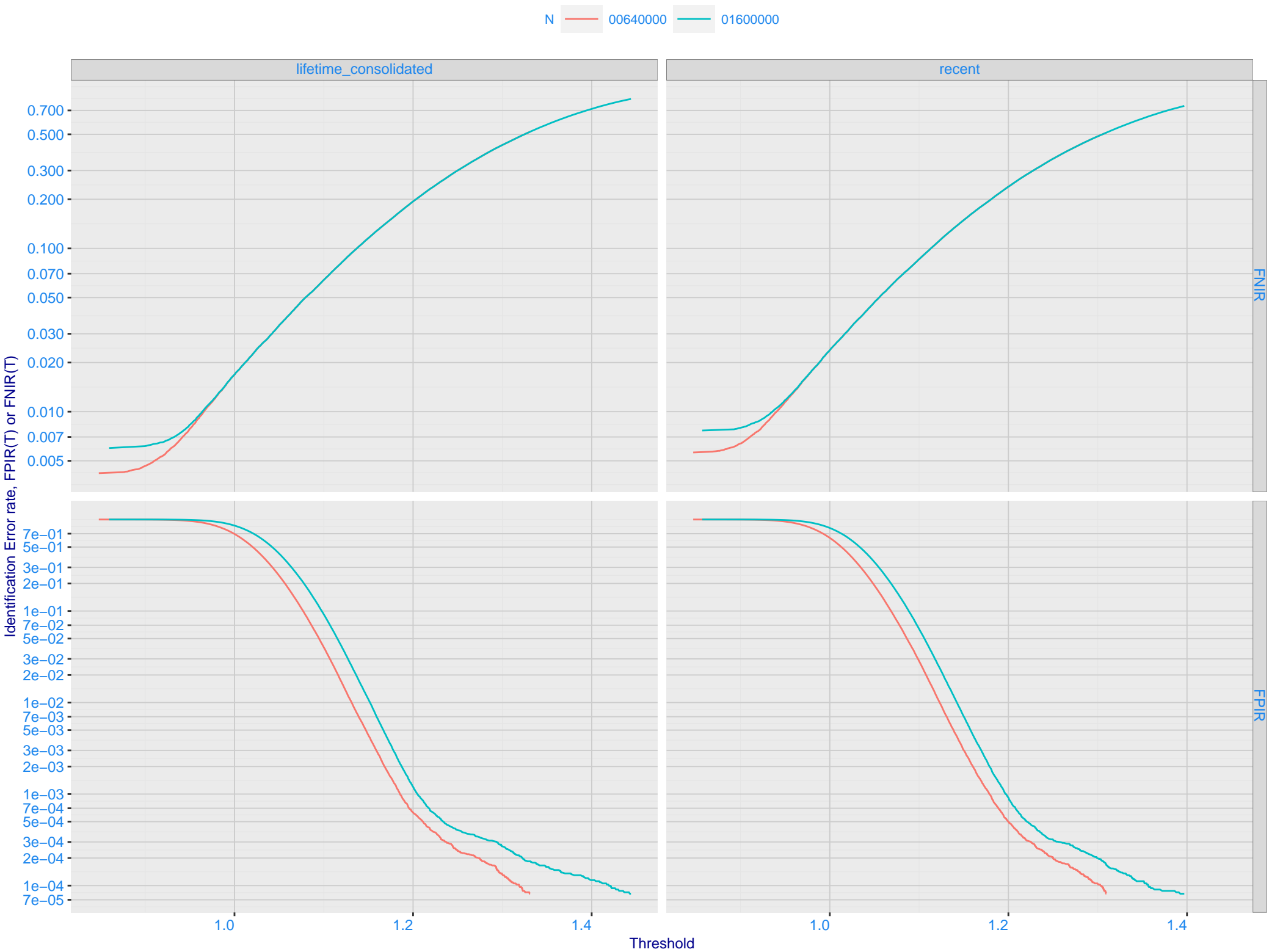
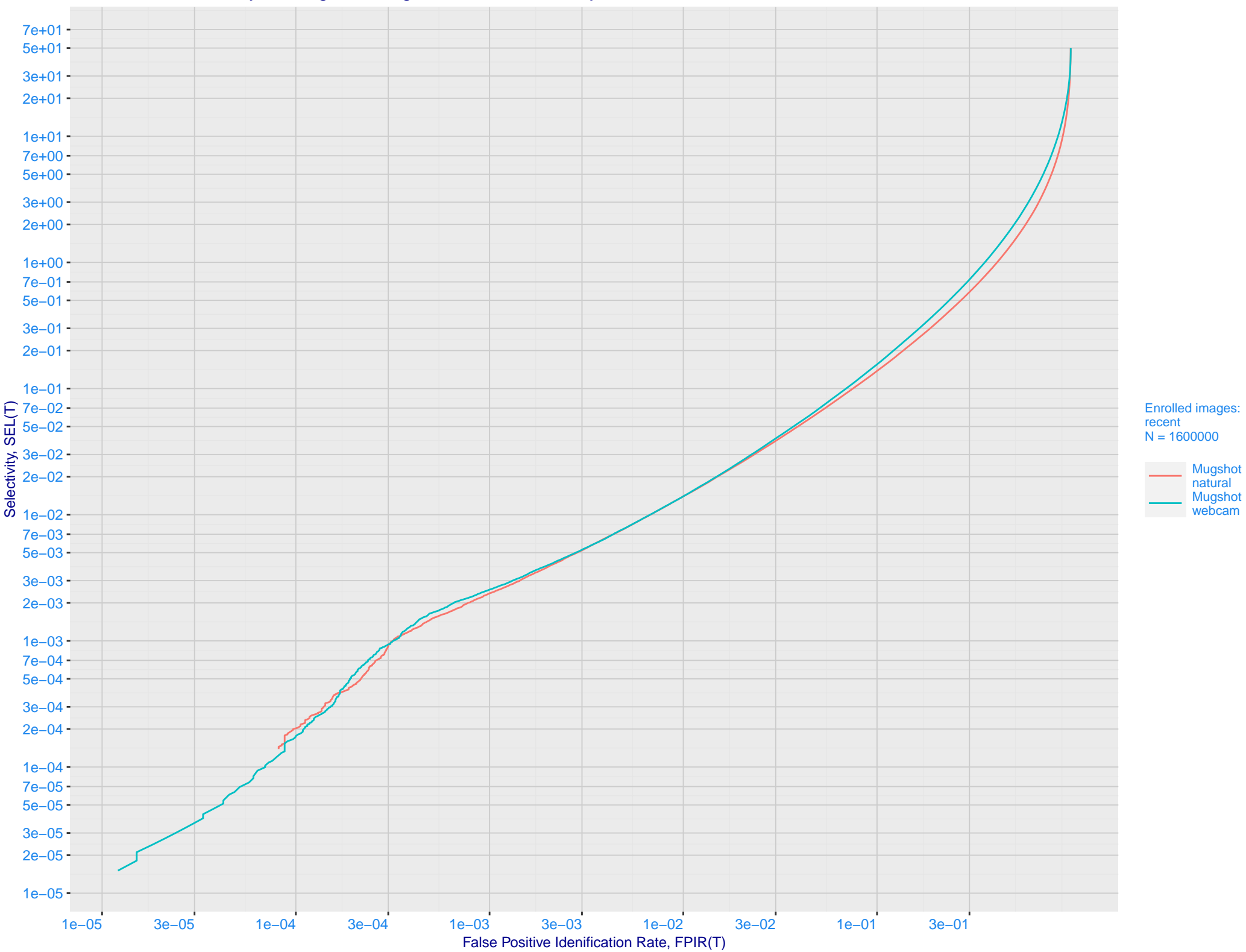# C: Evolution of accuracy for REALNETWORKS algorithms on three datasets 2018 – present

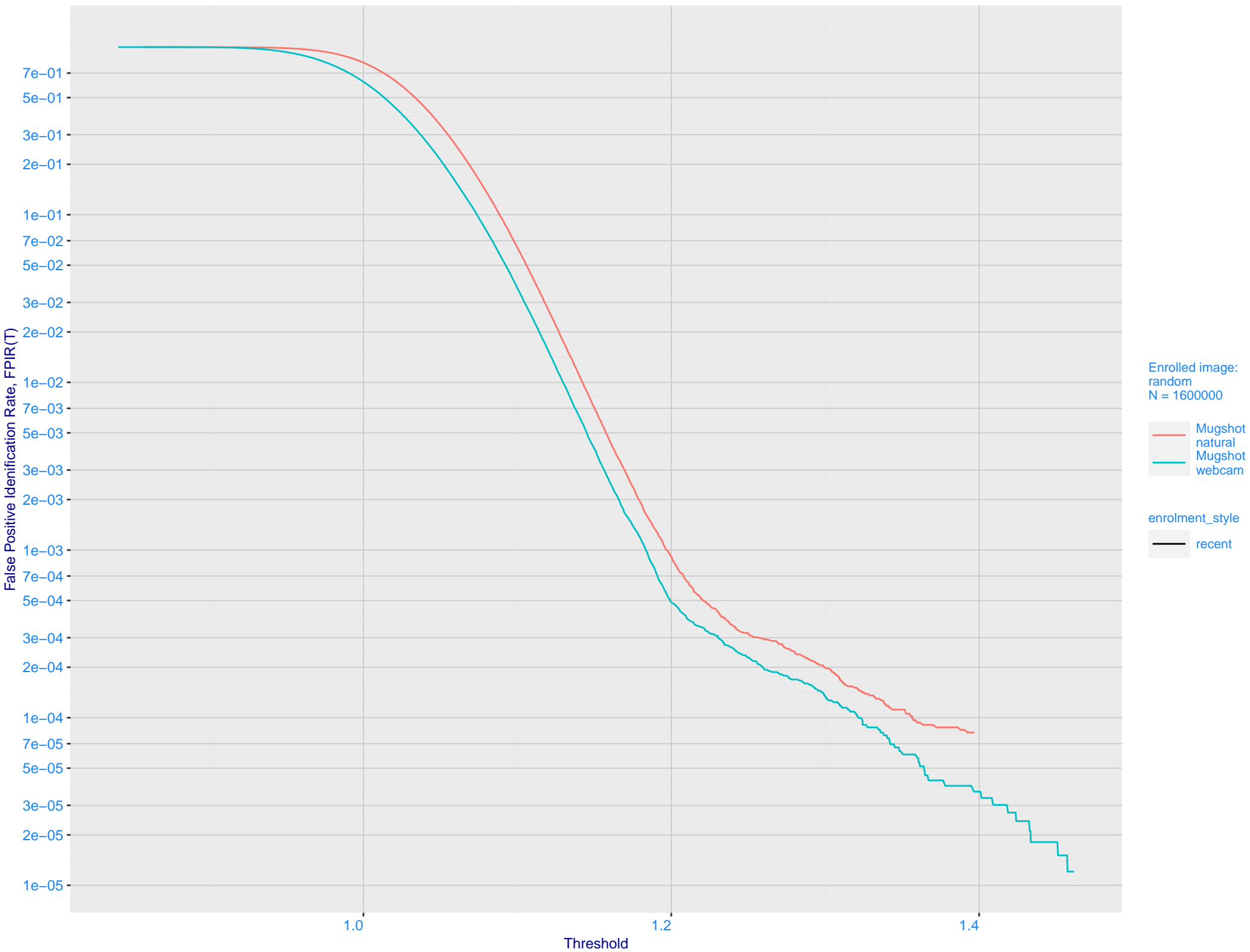D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals

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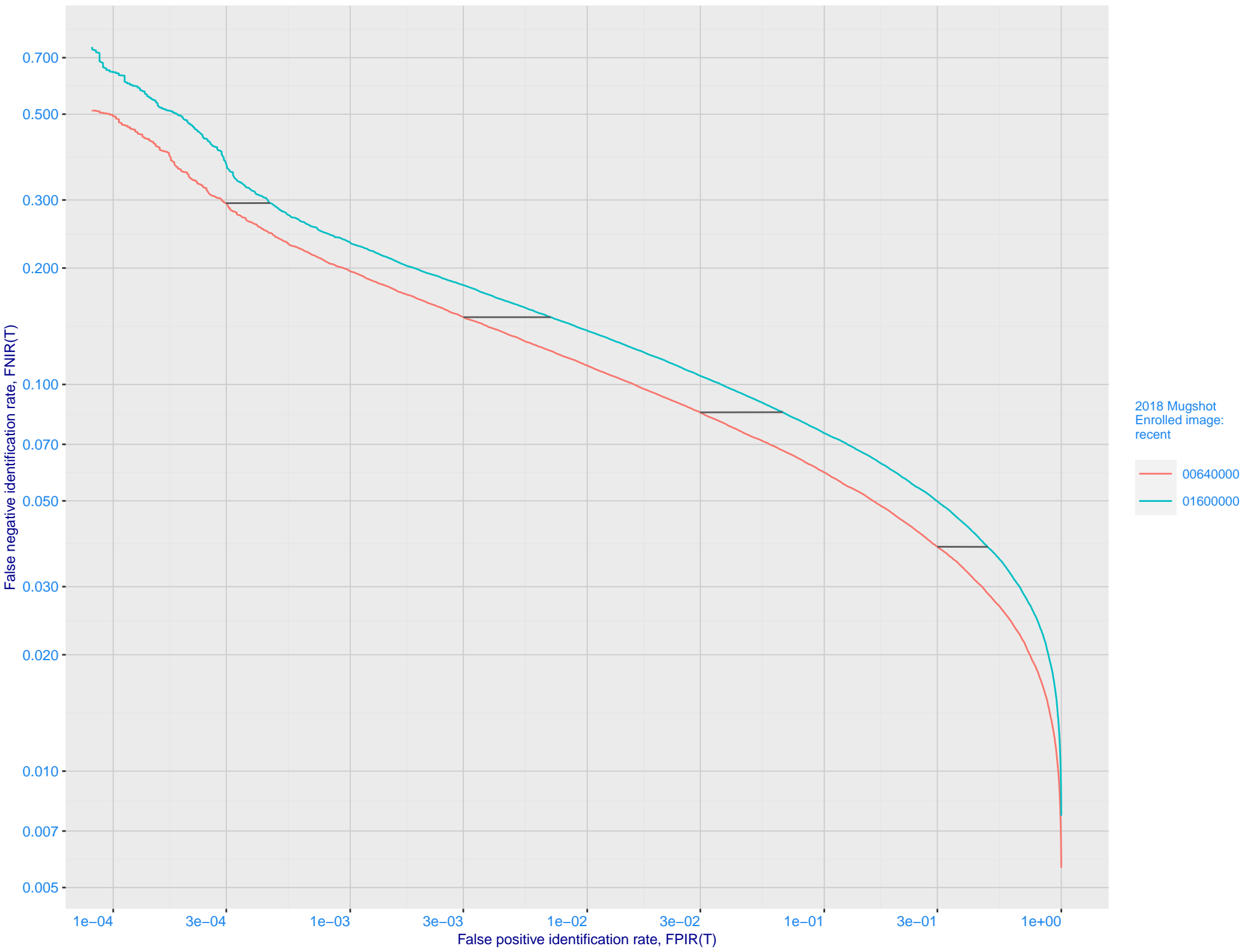
F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate

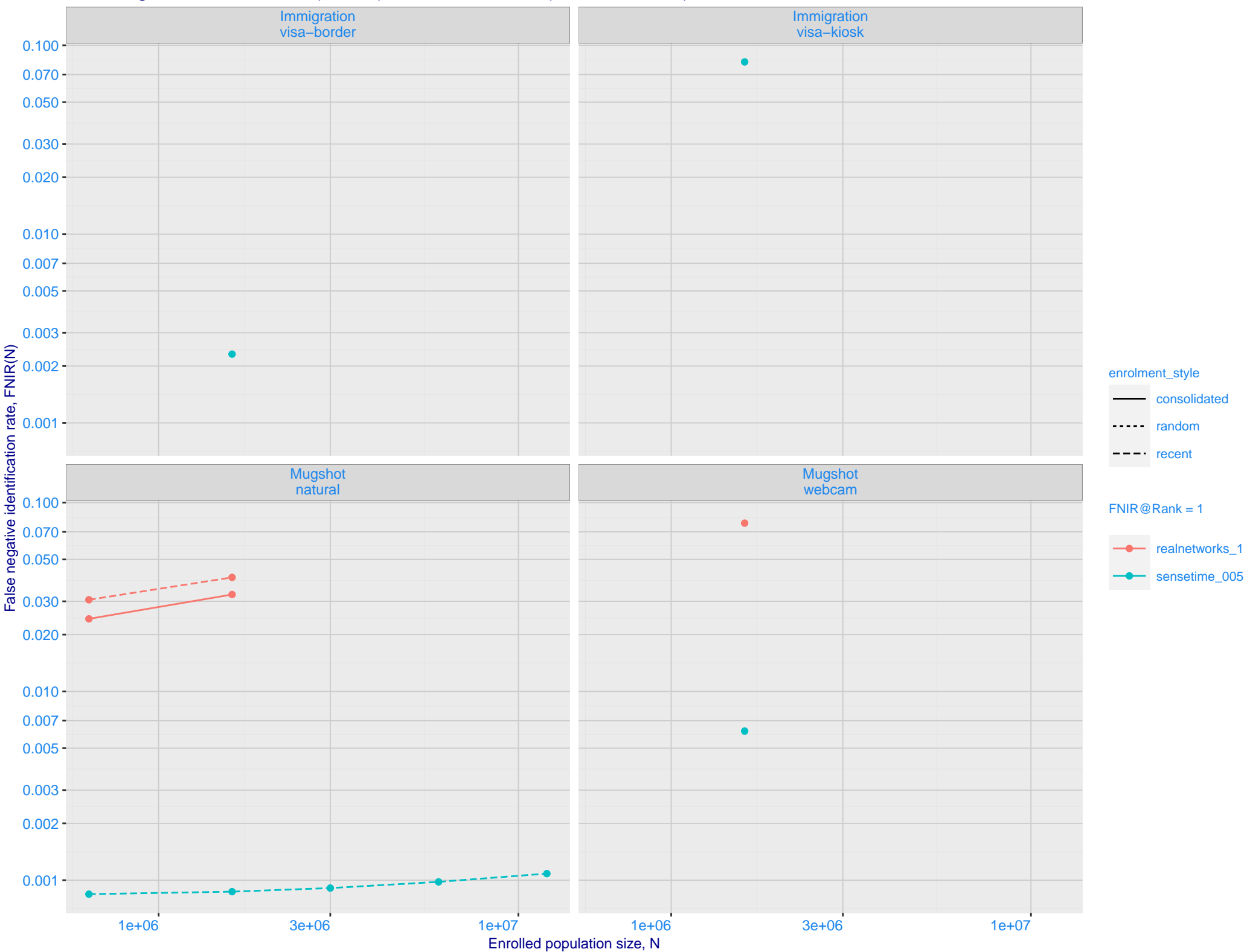G: FPIR dependence on T by probe type for N = 1600000 subjects

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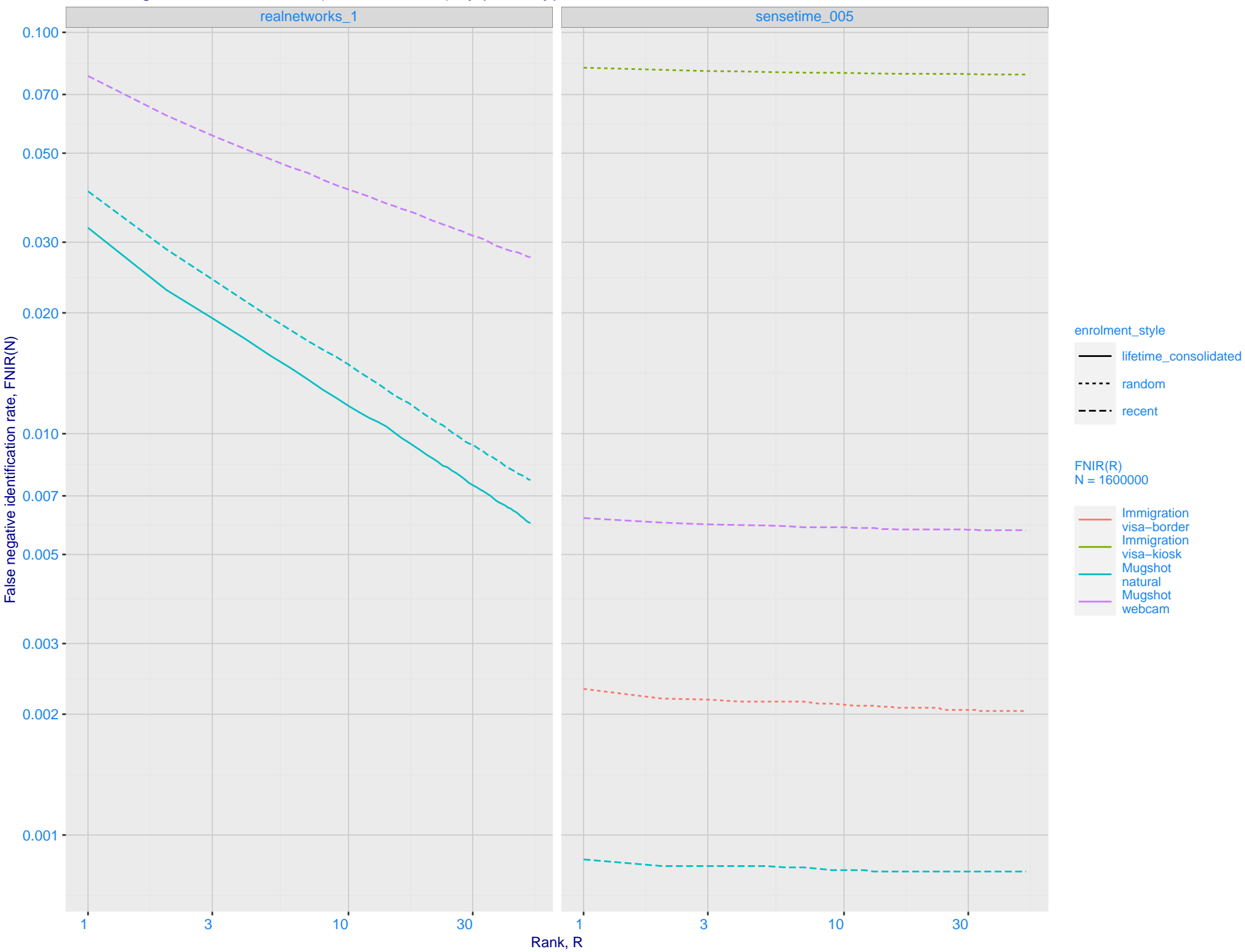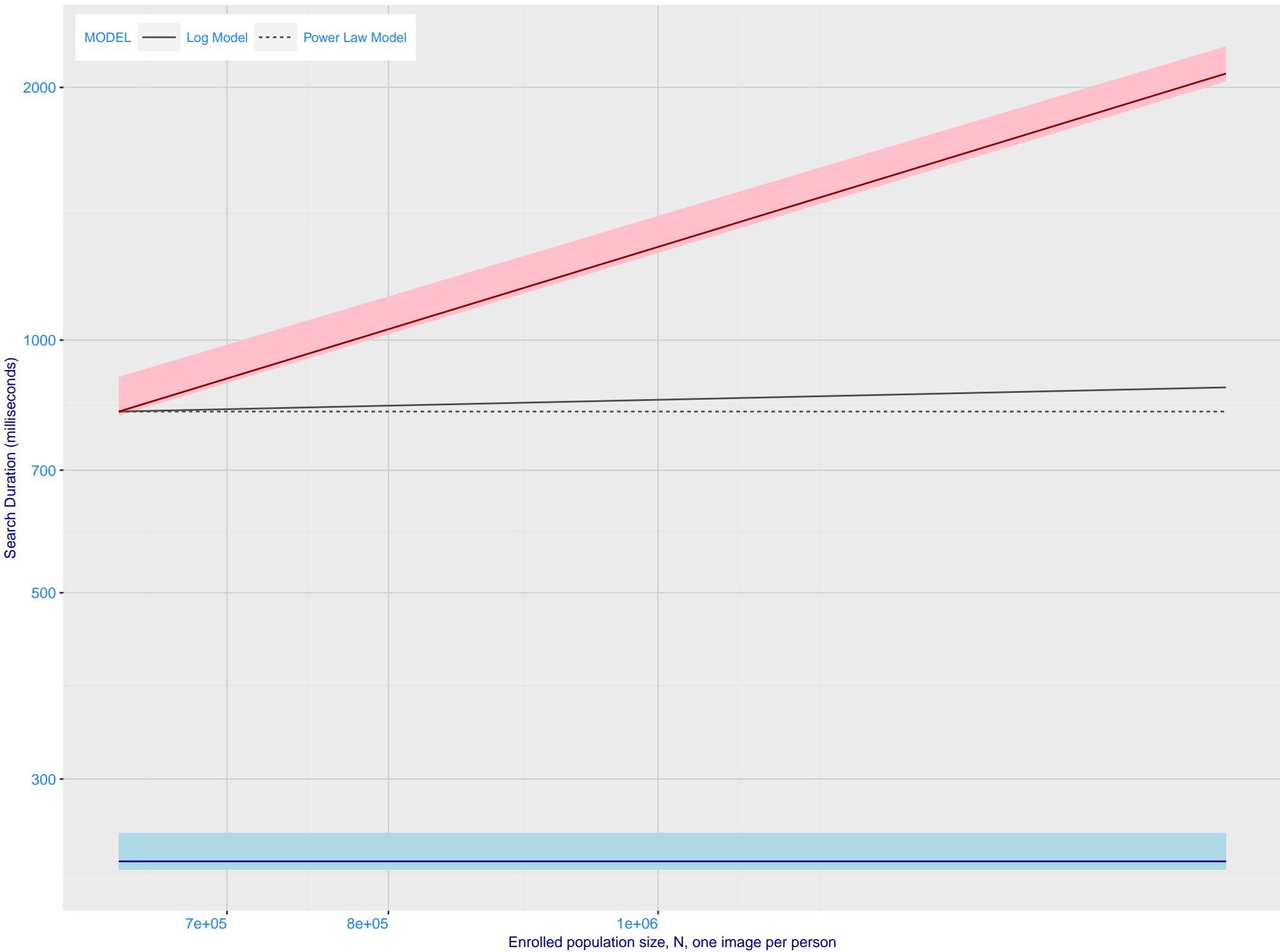
I: Investigational mode: FNIR(N, 1, 0) vs. most accurate (sensetime_005)

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