A: Datasheet

Algorithm: vd_003

Developer: Visidon

Submission Date: 2021_10_12

Template size: 2052 bytes

Template time (2.5 percentile): 684 msec

Template time (median): 692 msec

Template time (97.5 percentile): 709 msec

Investigation:

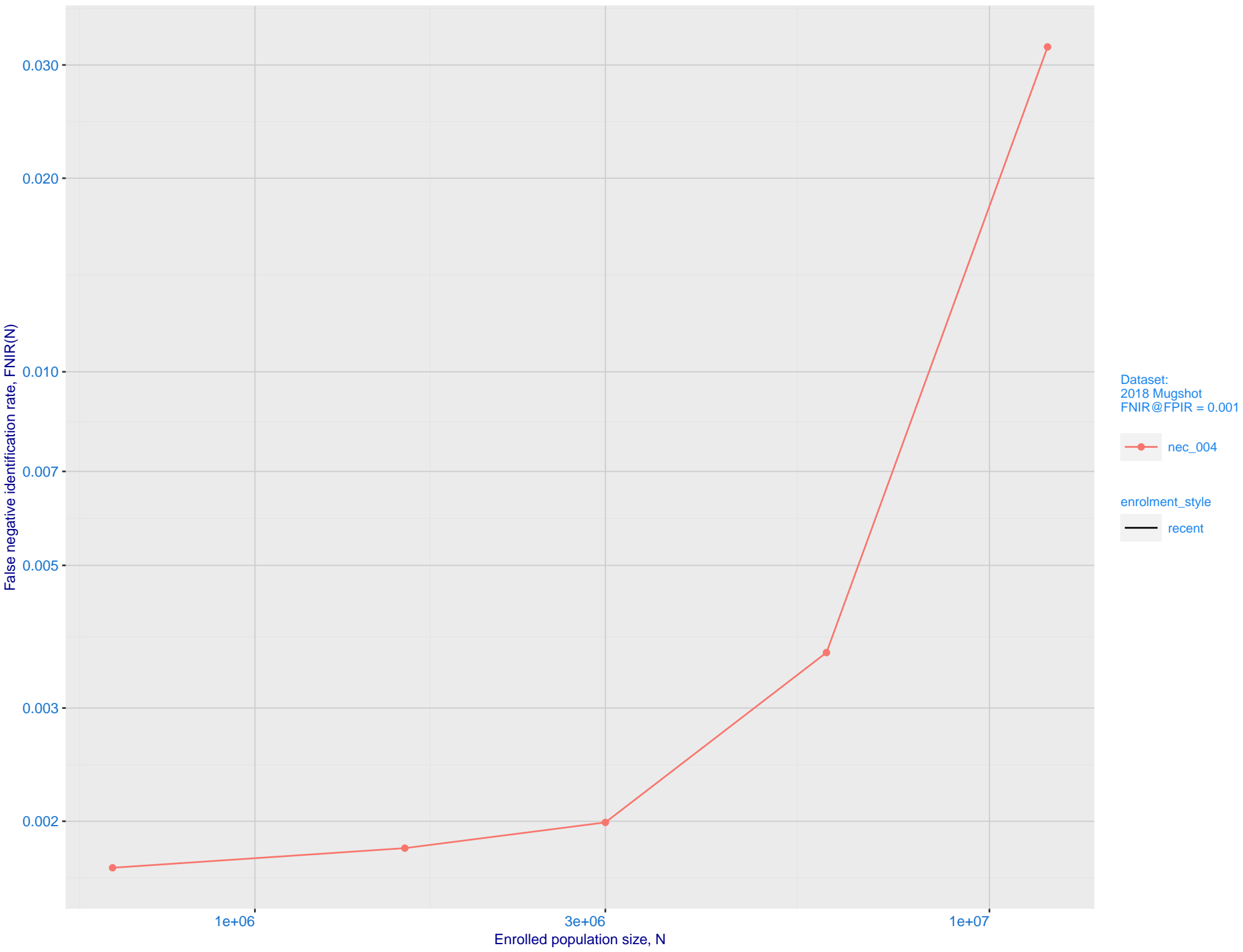Mugshot webcam ranking 116 (out of 269) –– FNIR(1600000, 0, 1) = 0.0218 vs. lowest 0.0057 from sensetime_006

Mugshot profile ranking 126 (out of 237) –– FNIR(1600000, 0, 1) = 0.7730 vs. lowest 0.0550 from sensetime_006
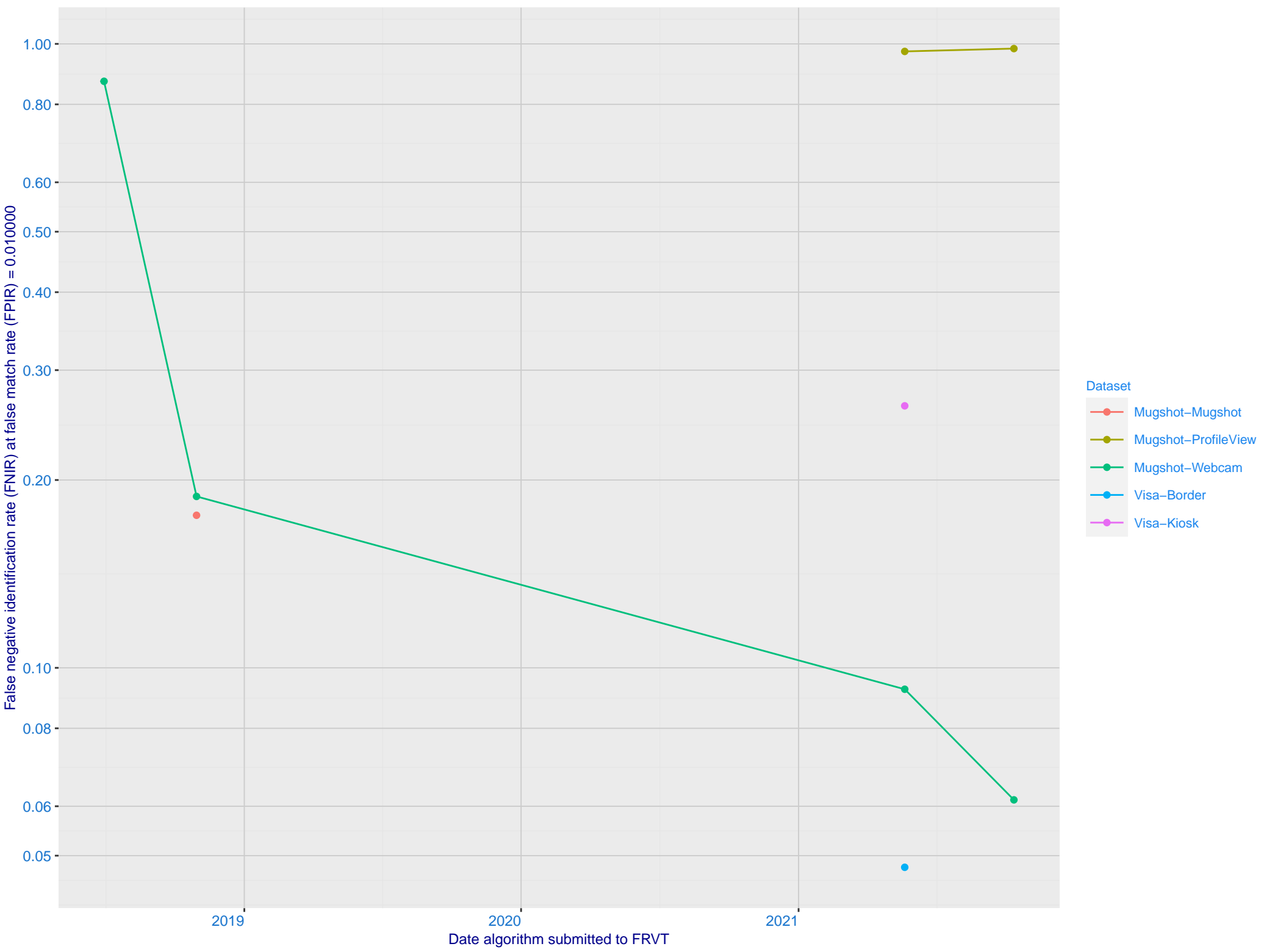
Identification:

Mugshot webcam ranking 98 (out of 267) –– FNIR(1600000, T, L+1) = 0.1001, FPIR=0.001000 vs. lowest 0.0122 from sensetime_003

Mugshot profile ranking 158 (out of 236) –– FNIR(1600000, T, L+1) = 0.9989, FPIR=0.001000 vs. lowest 0.1331 from cloudwalk_hr_000
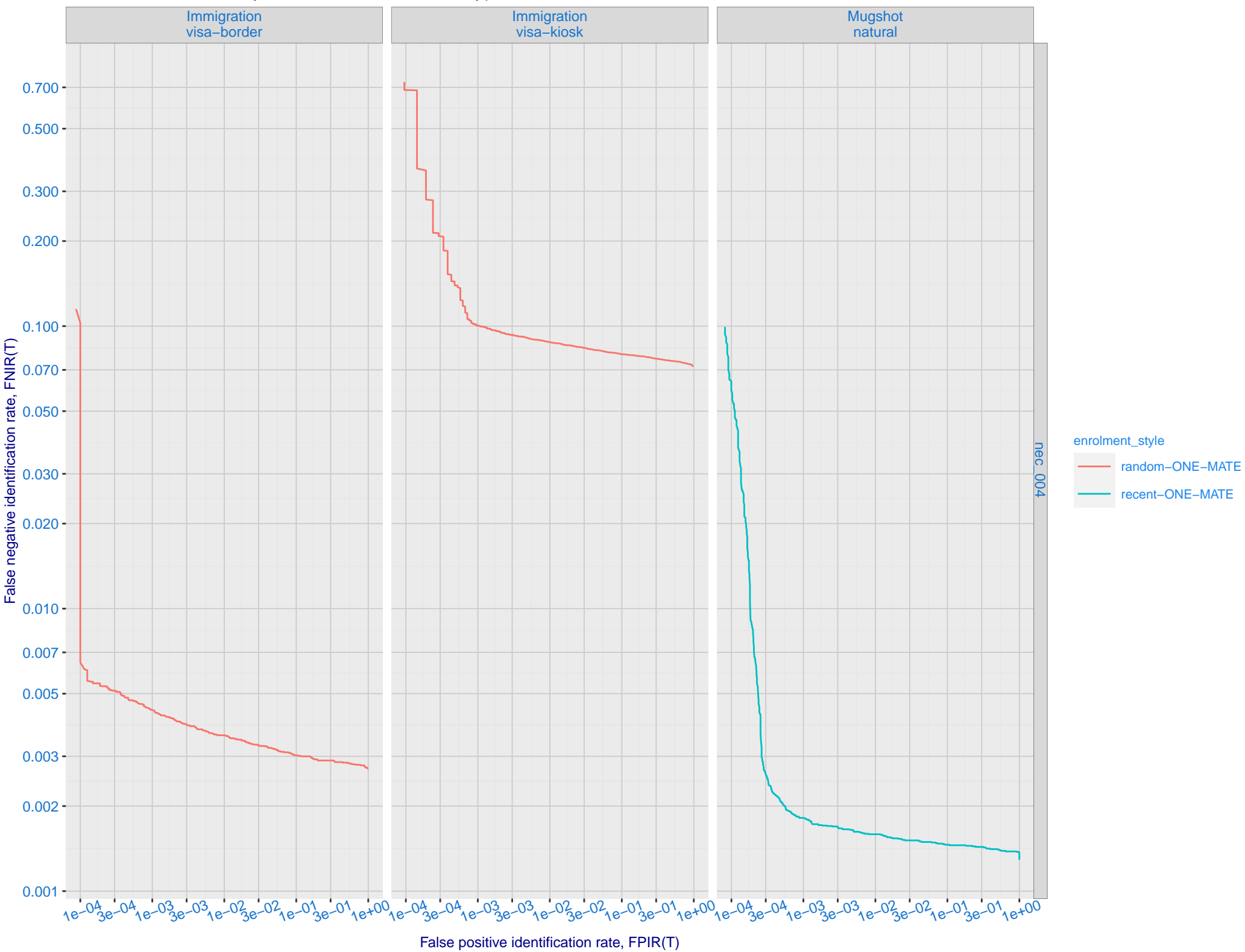
B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (nec_004)
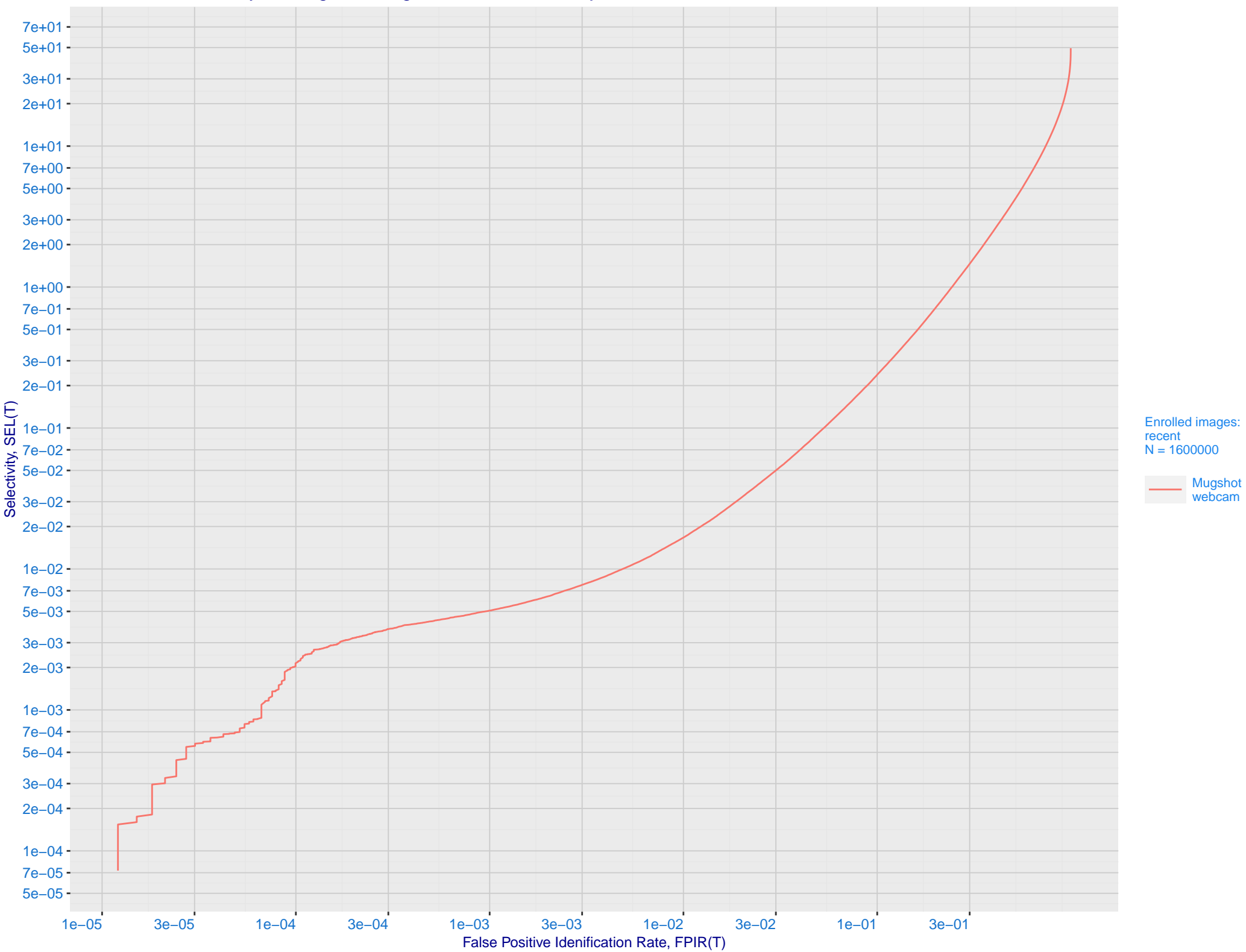
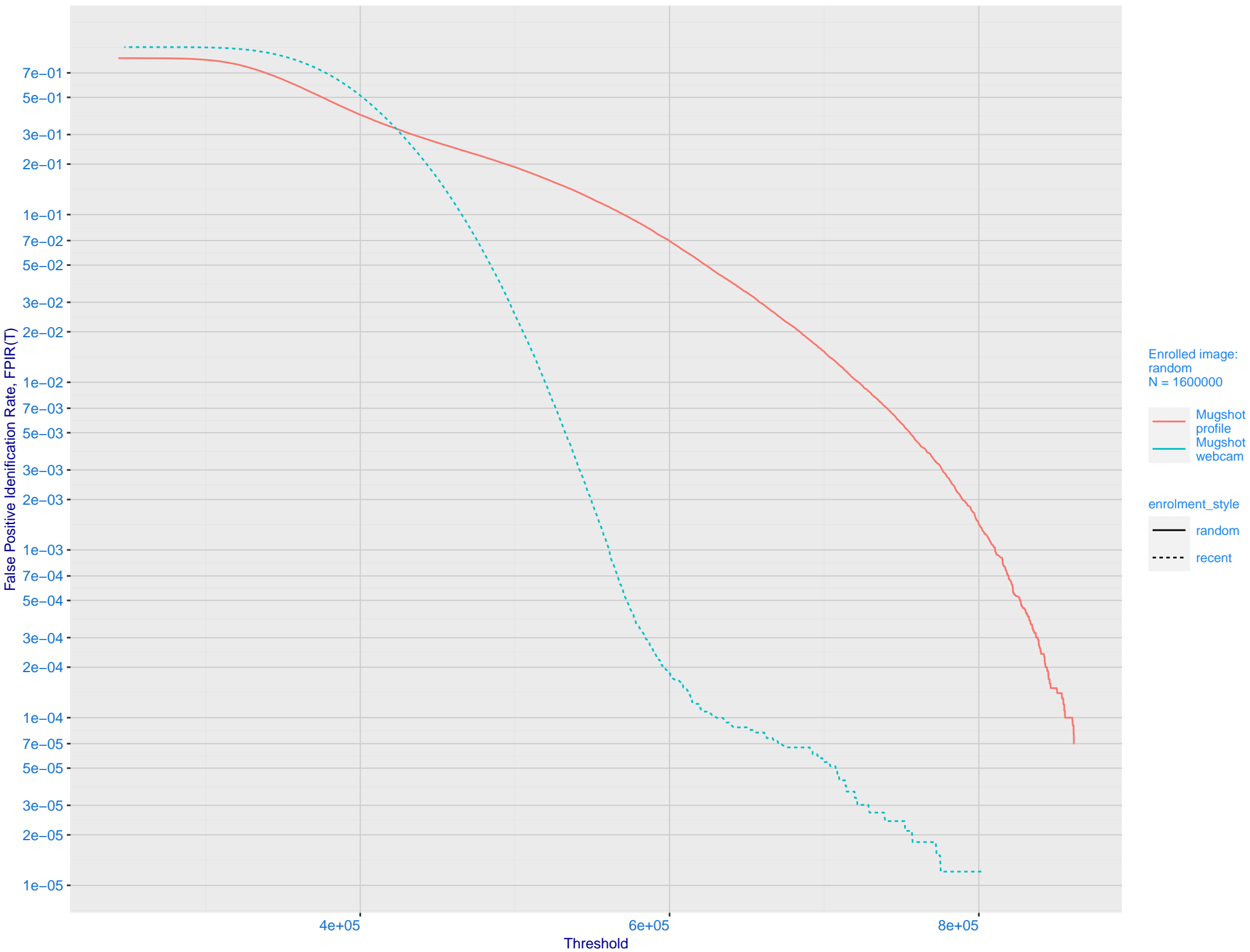C: Evolution of accuracy for VD algorithms on three datasets 2018 – present

D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals
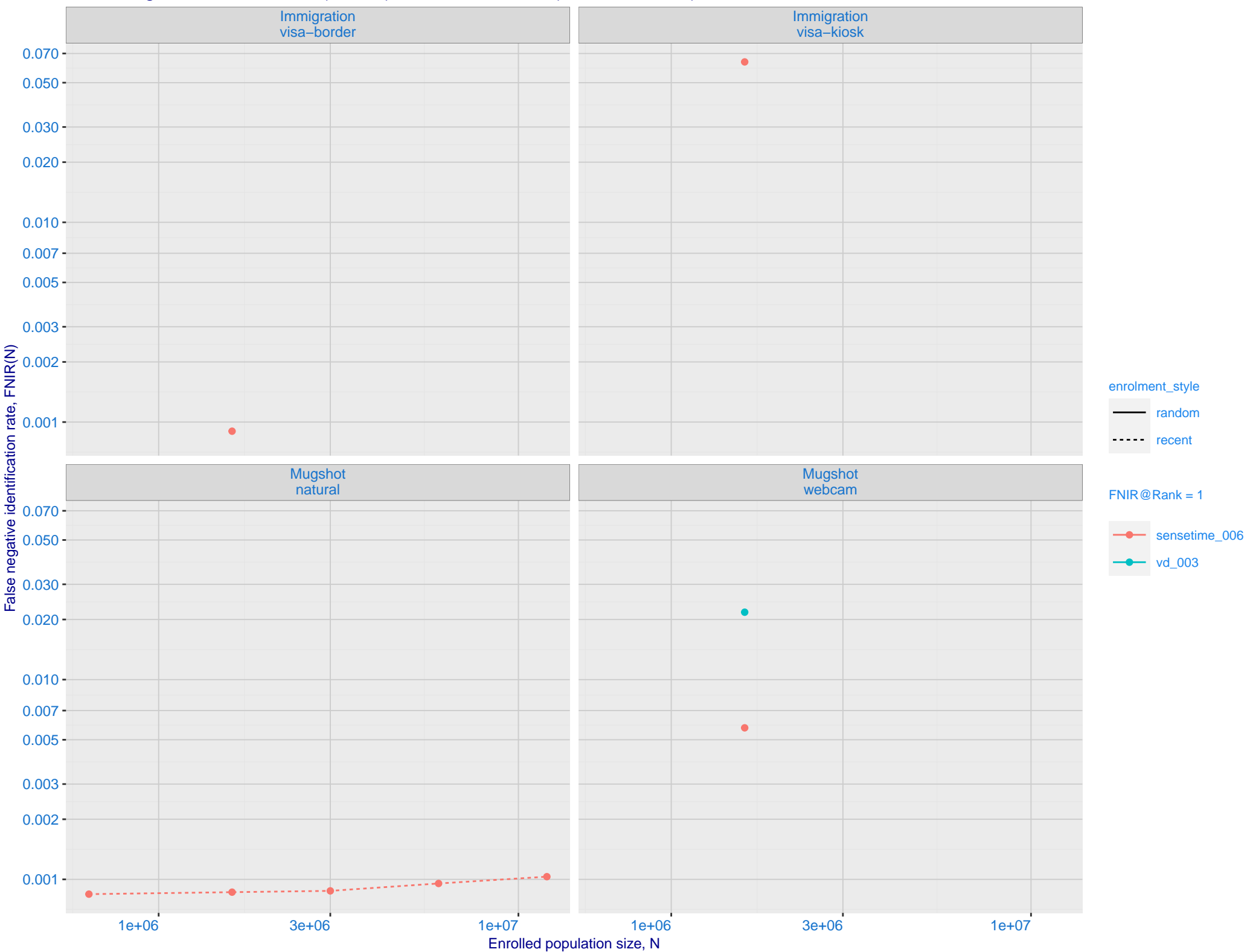
F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate
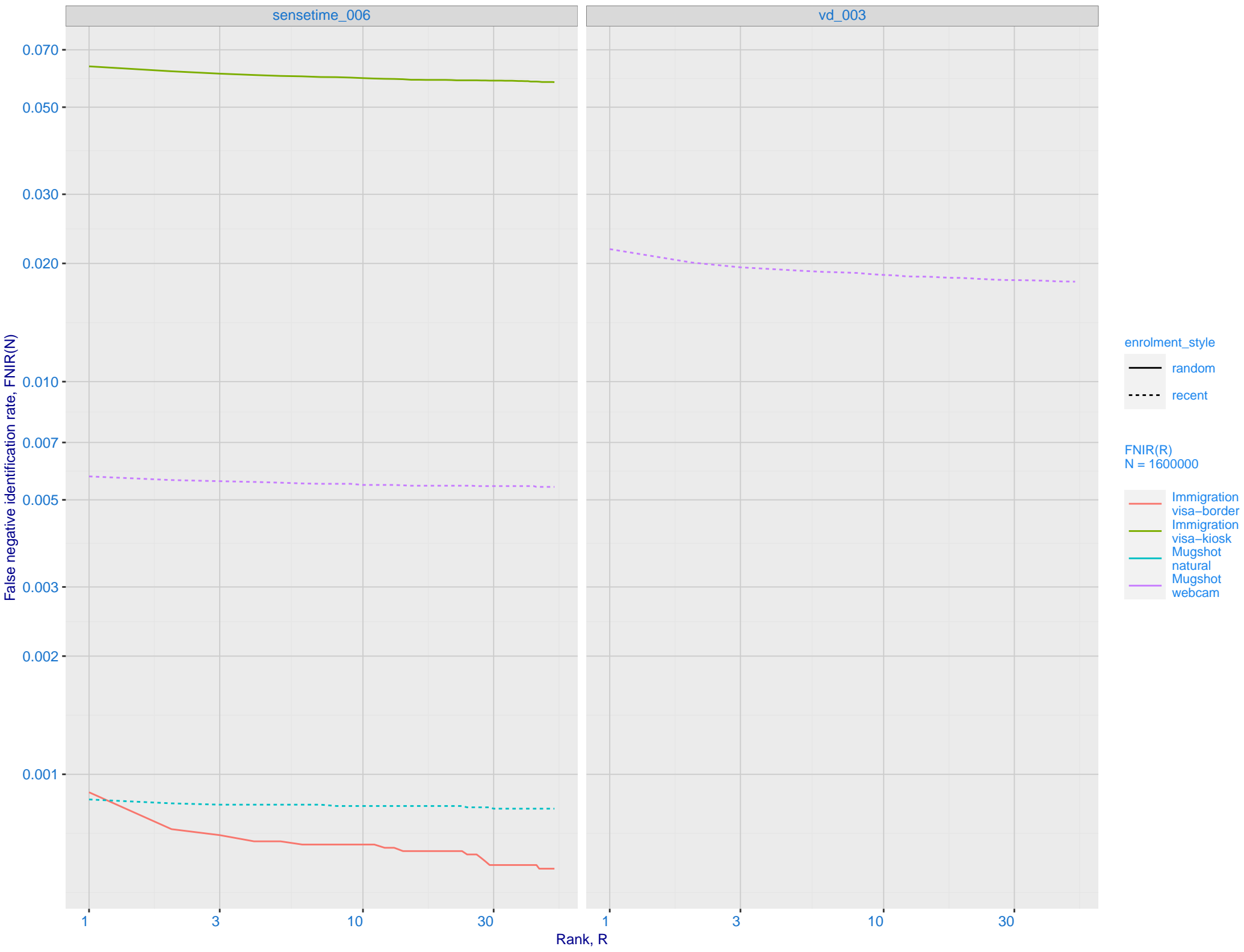
G: FPIR dependence on T by probe type for N = 1600000 subjects

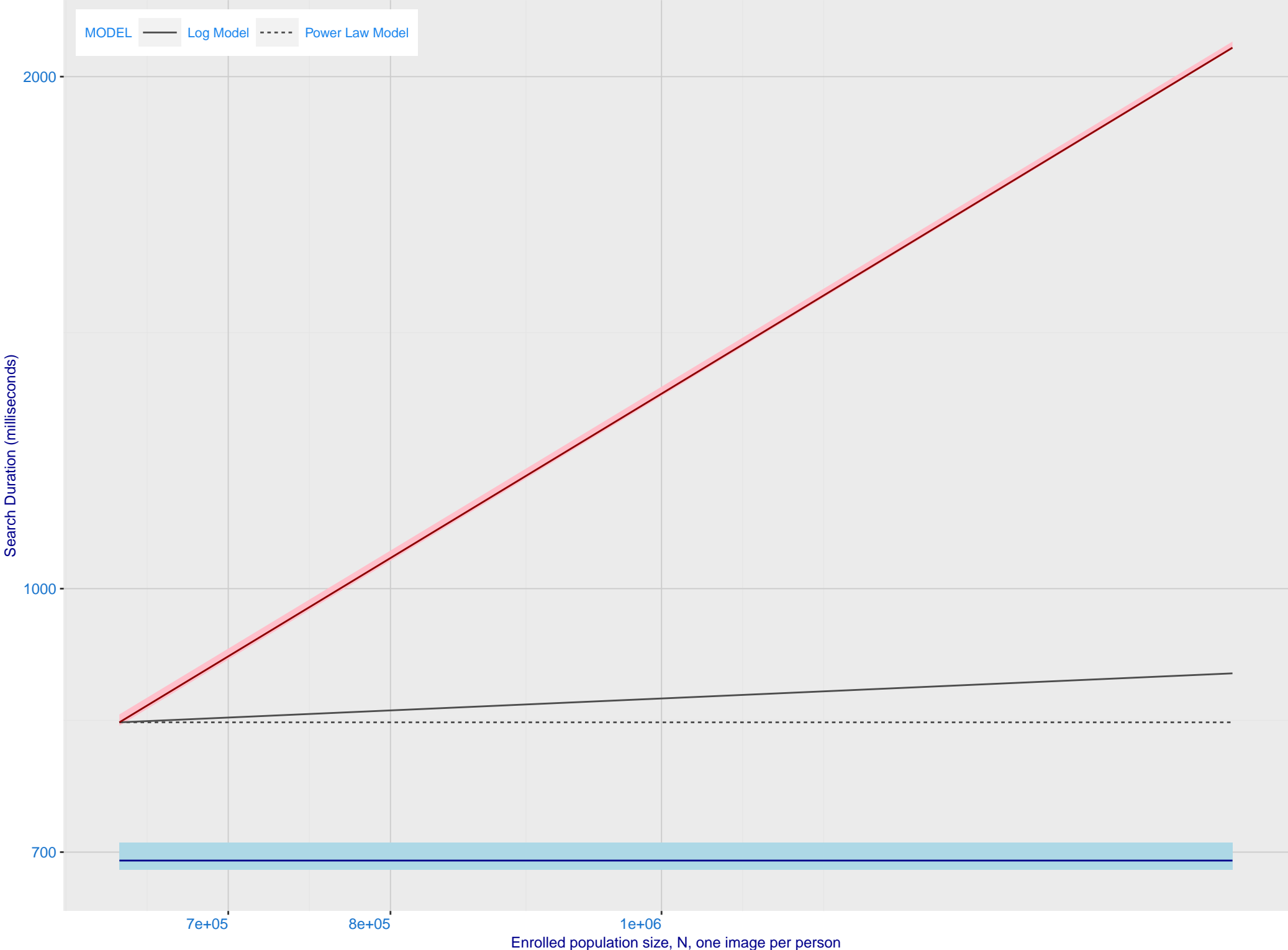K: Investigational mode: FNIR(N, 1, 0) vs. most accurate (sensetime_006)

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

MODEL — Log Model ⋯⋯ Power Law Model

Search Duration (milliseconds)

Enrolled population size, N, one image per person

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