A: Datasheet

Algorithm: tiger_3

Developer: TigerIT Americas LLC

Submission Date: 2018_10_30

Template size: 2052 bytes

Template time (2.5 percentile): 427 msec

Template time (median): 462 msec

Template time (97.5 percentile): 512 msec

Investigation:

Frontal mugshot ranking 84 (out of 259) –– FNIR(1600000, 0, 1) = 0.0056 vs. lowest 0.0009 from sensetime_005
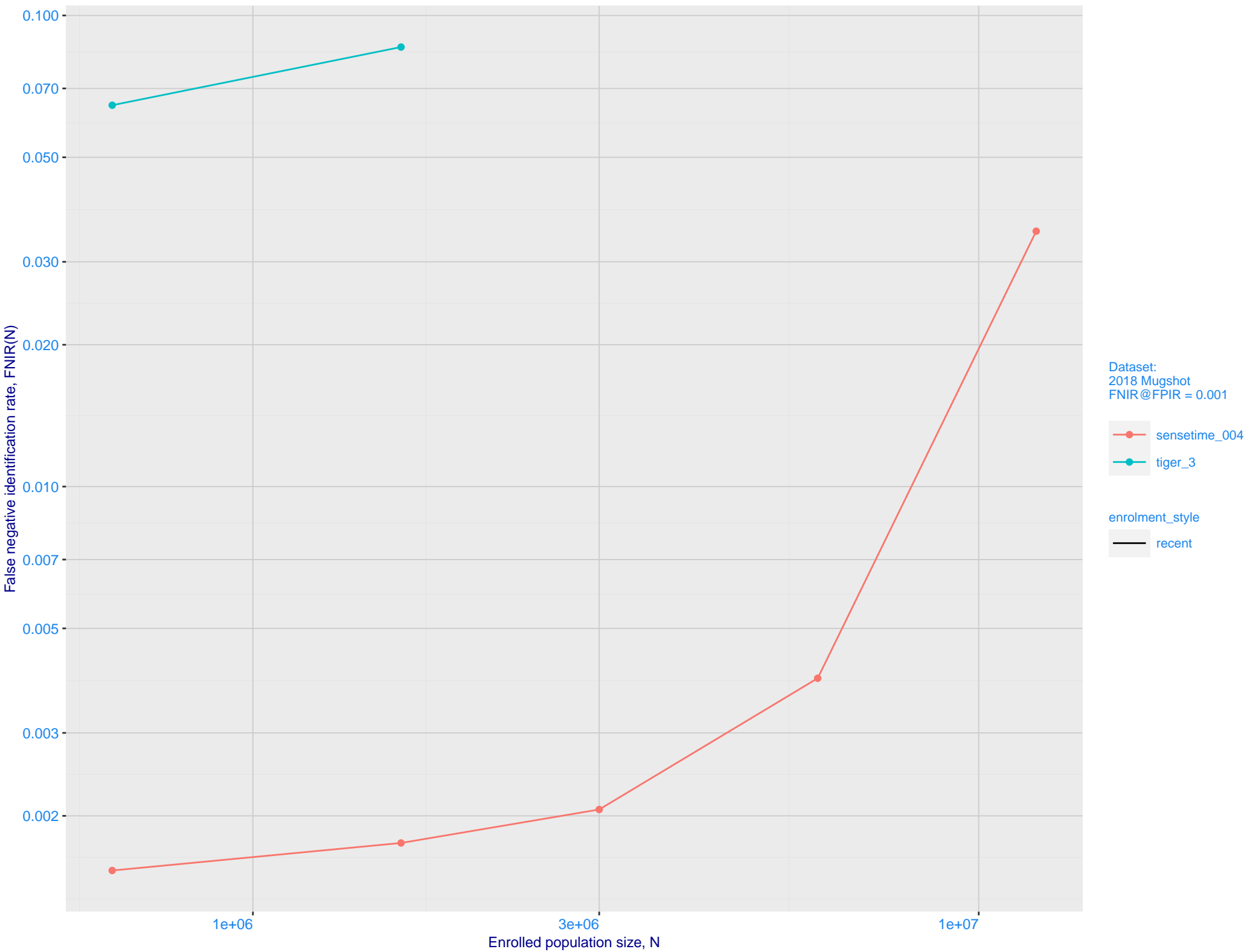
Mugshot webcam ranking 84 (out of 221) –– FNIR(1600000, 0, 1) = 0.0229 vs. lowest 0.0062 from sensetime_005
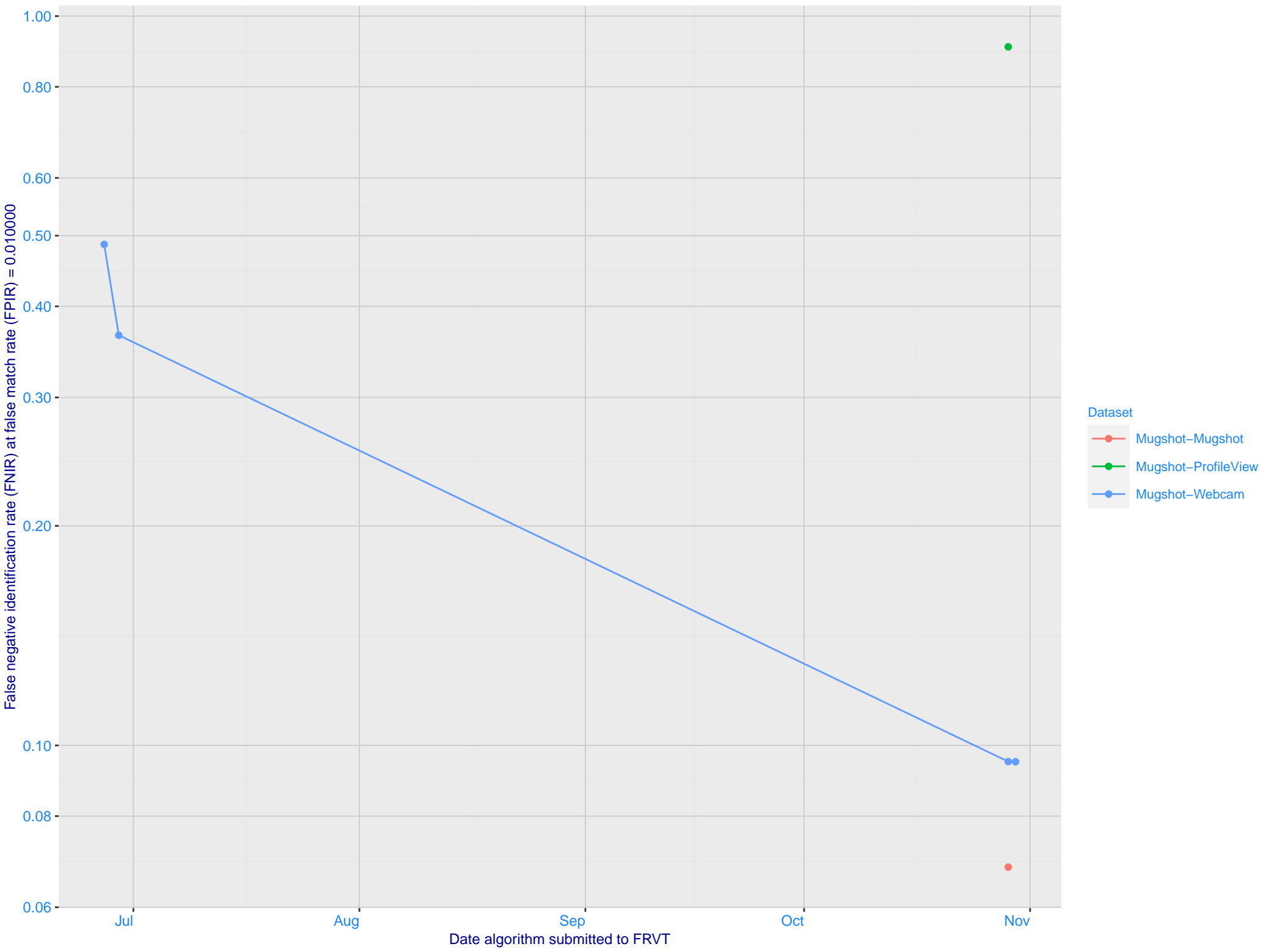
Identification:

Frontal mugshot ranking 113 (out of 259) –– FNIR(1600000, T, L+1) = 0.0857, FPIR=0.001000 vs. lowest 0.0018 from sensetime_004

Mugshot webcam ranking 105 (out of 219) –– FNIR(1600000, T, L+1) = 0.1584, FPIR=0.001000 vs. lowest 0.0122 from sensetime_003
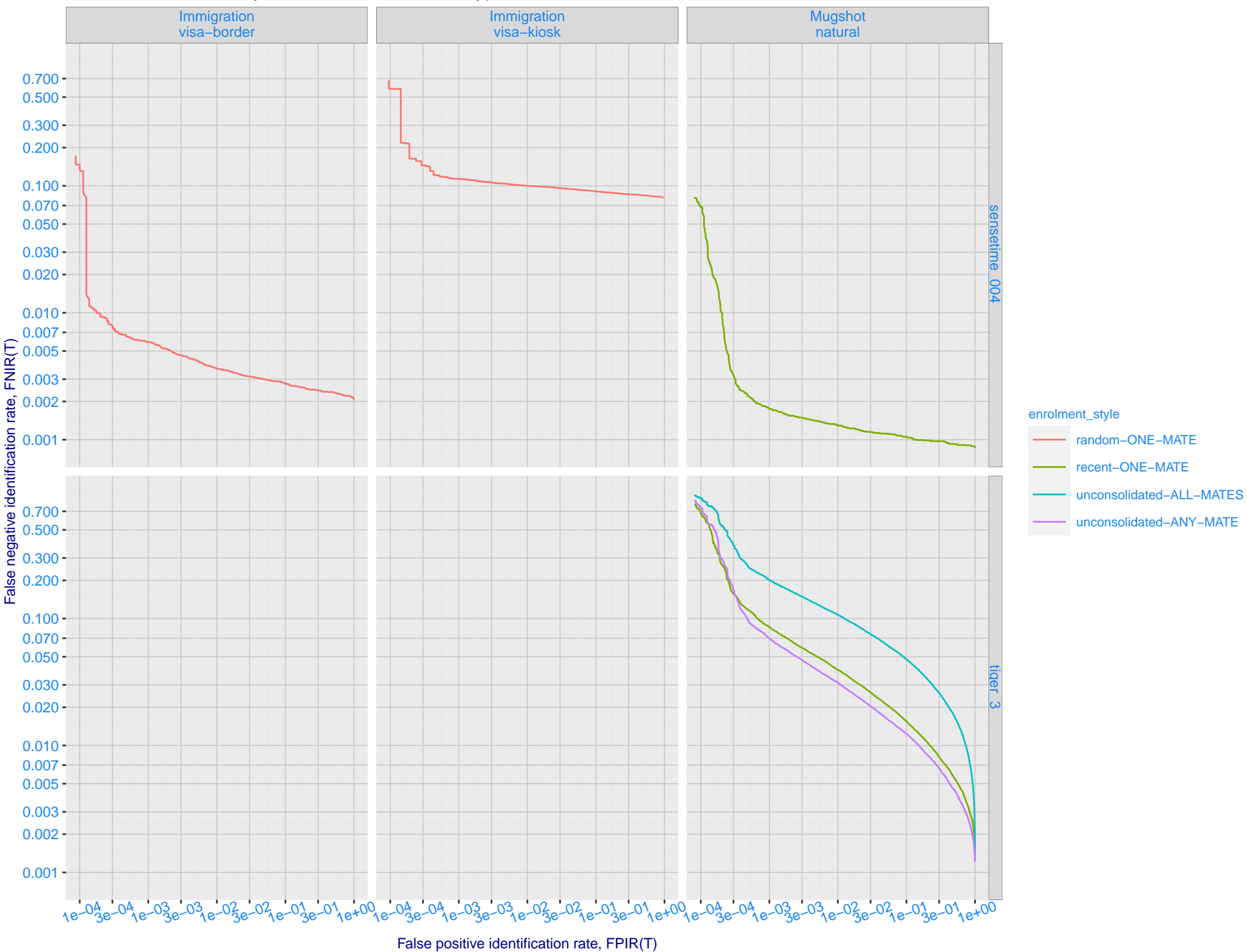
B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime_004)
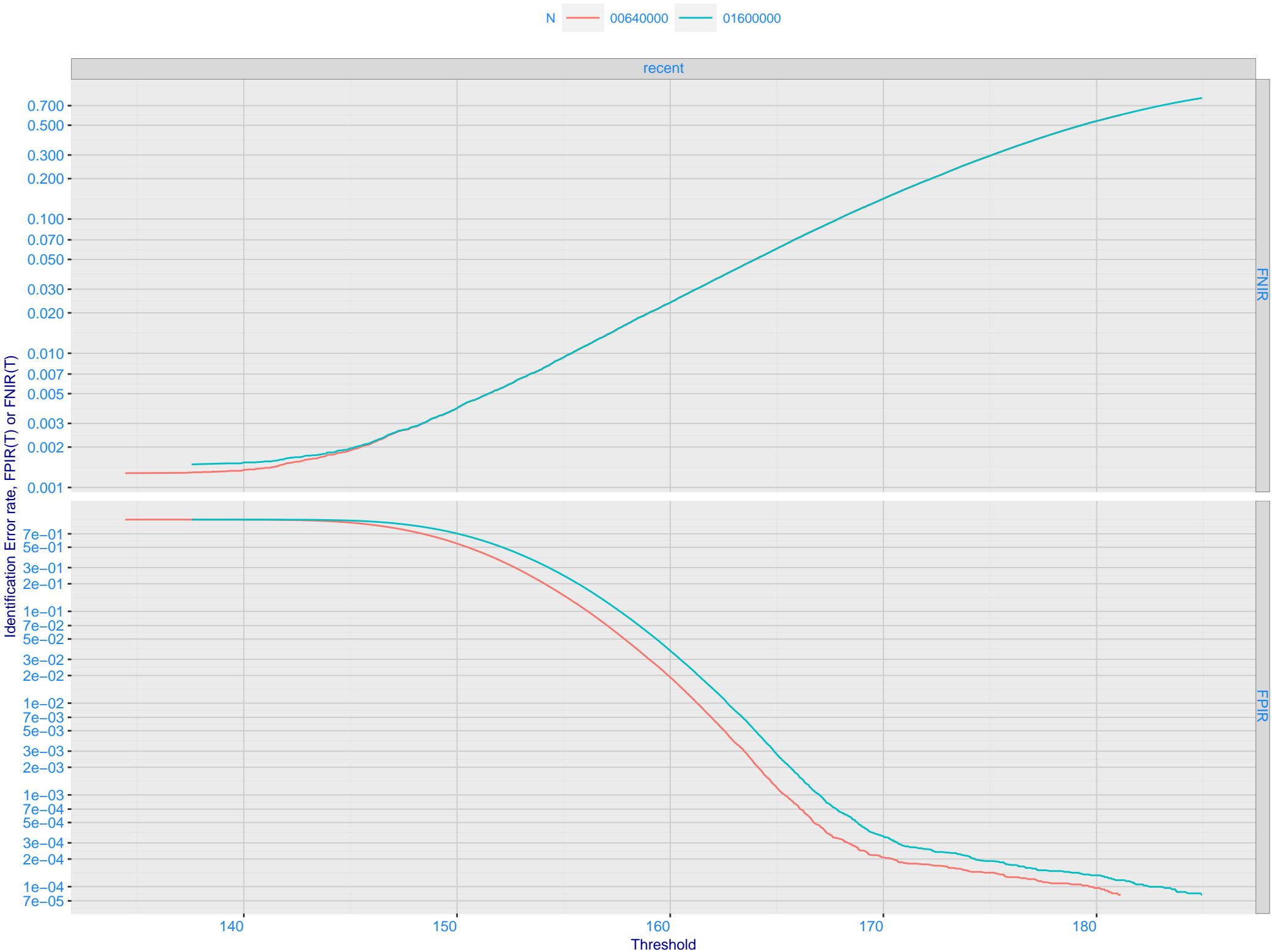
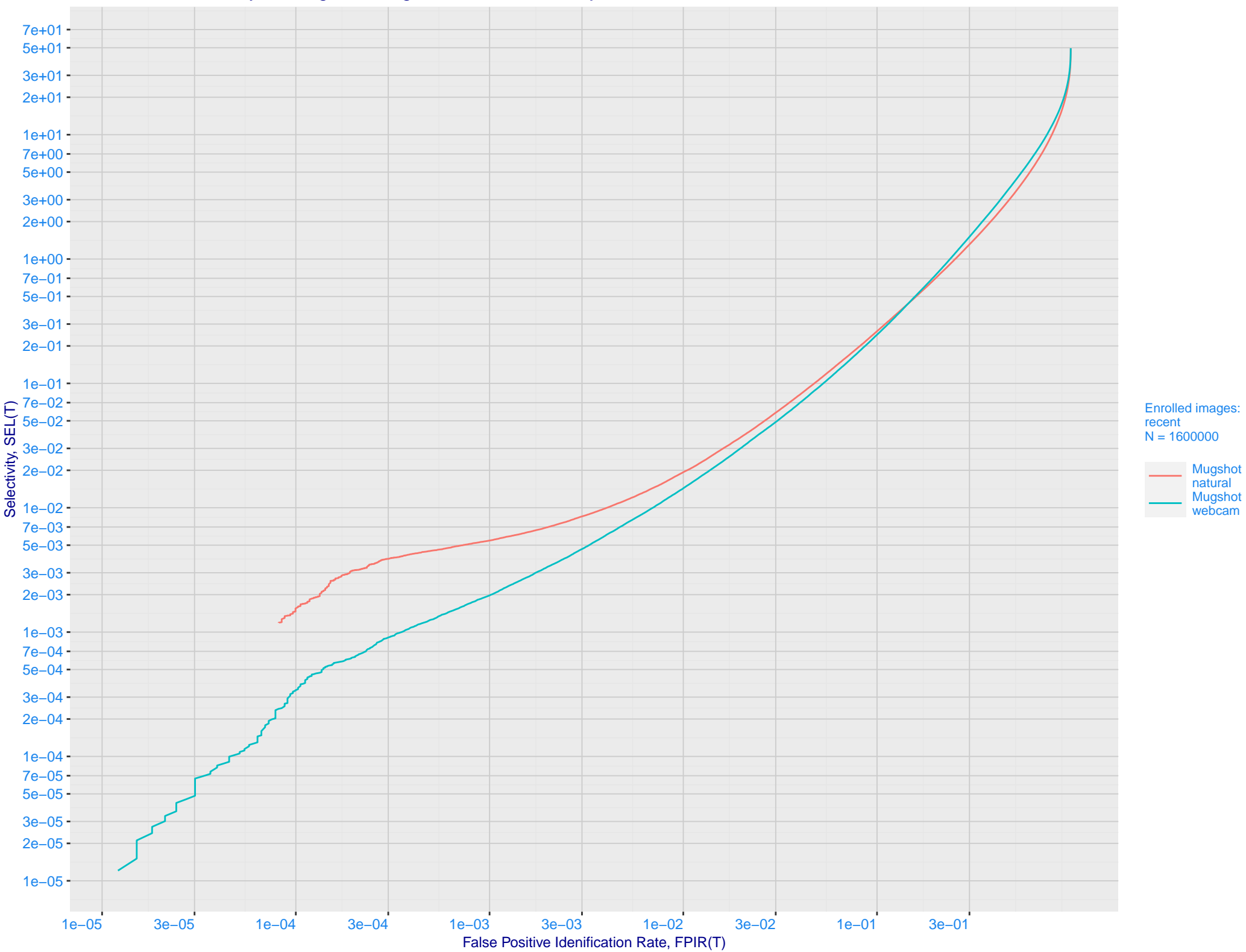C: Evolution of accuracy for TIGER algorithms on three datasets 2018 – present

D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals
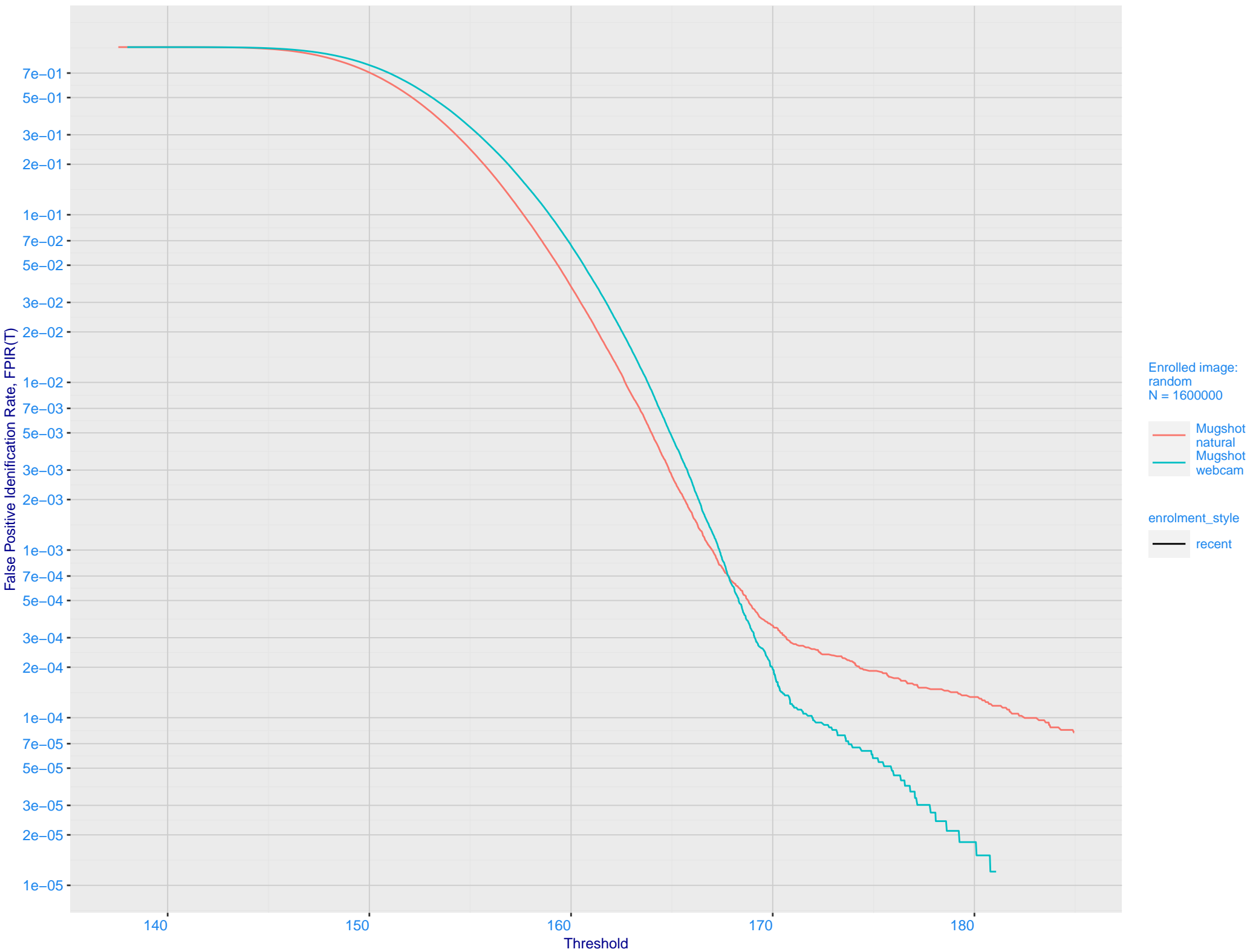
E: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images
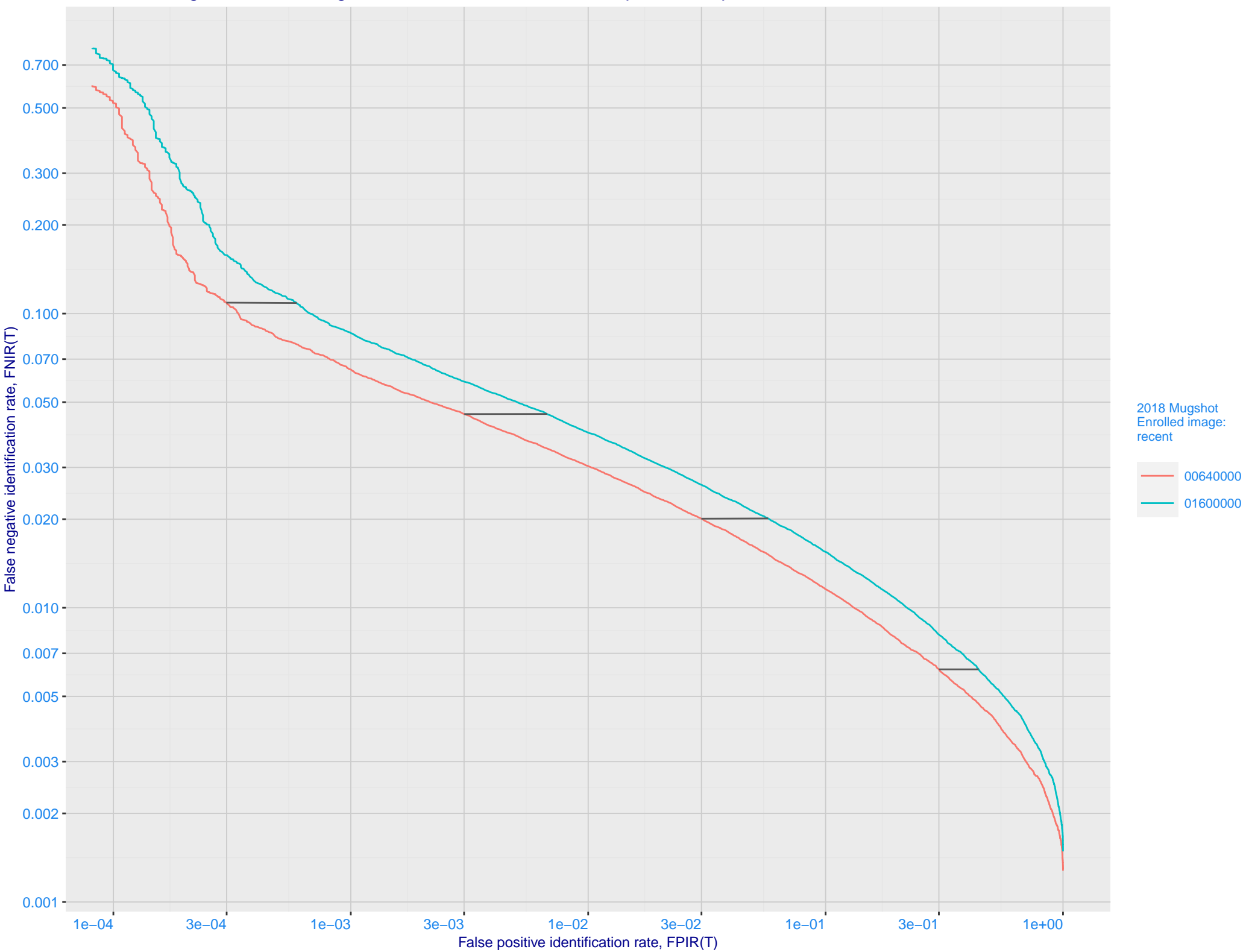
F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate

Selectivity, SEL(T)

False Positive Idenification Rate, FPIR(T)

Enrolled images:
recent
N = 1600000

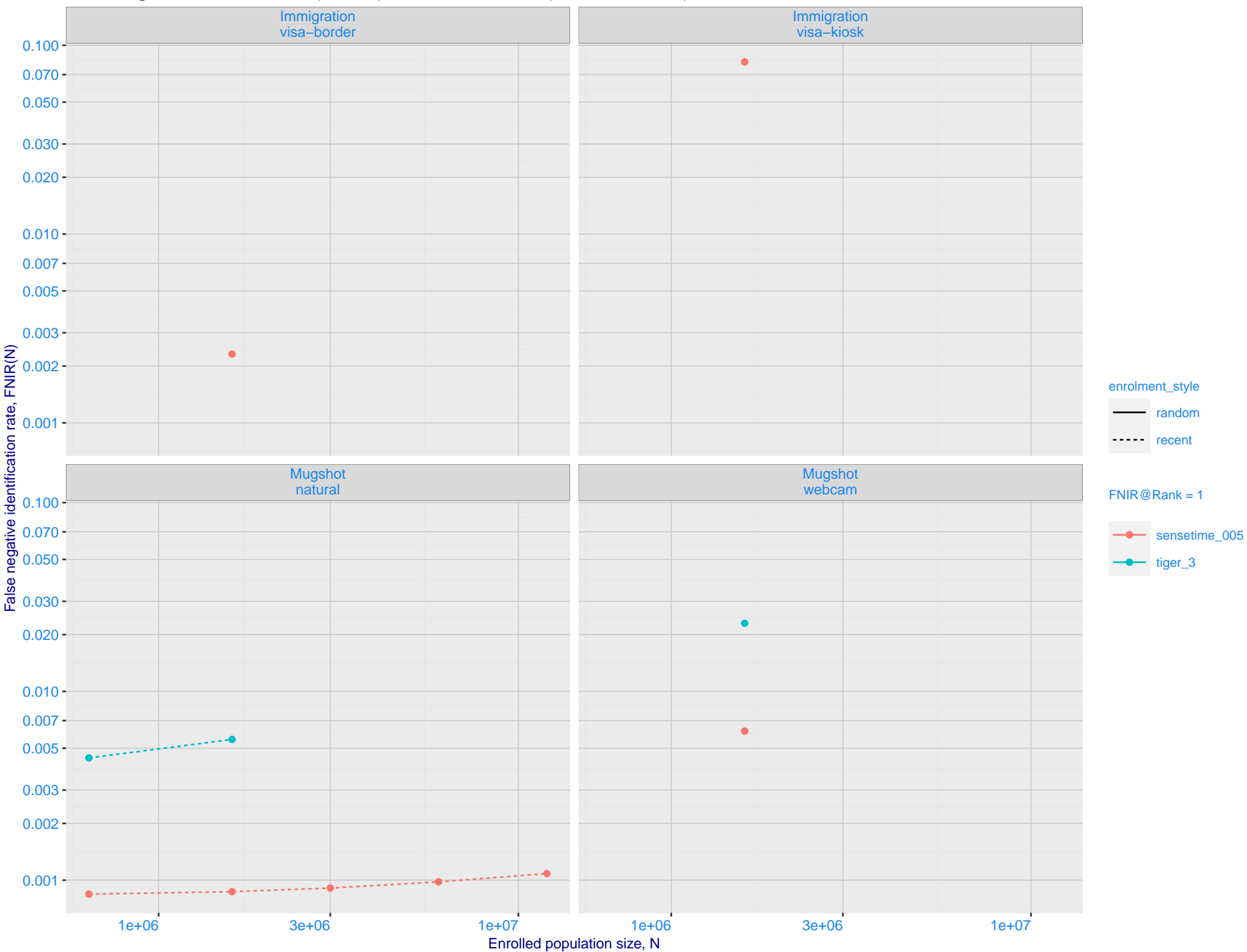Mugshot
natural
Mugshot
webcam

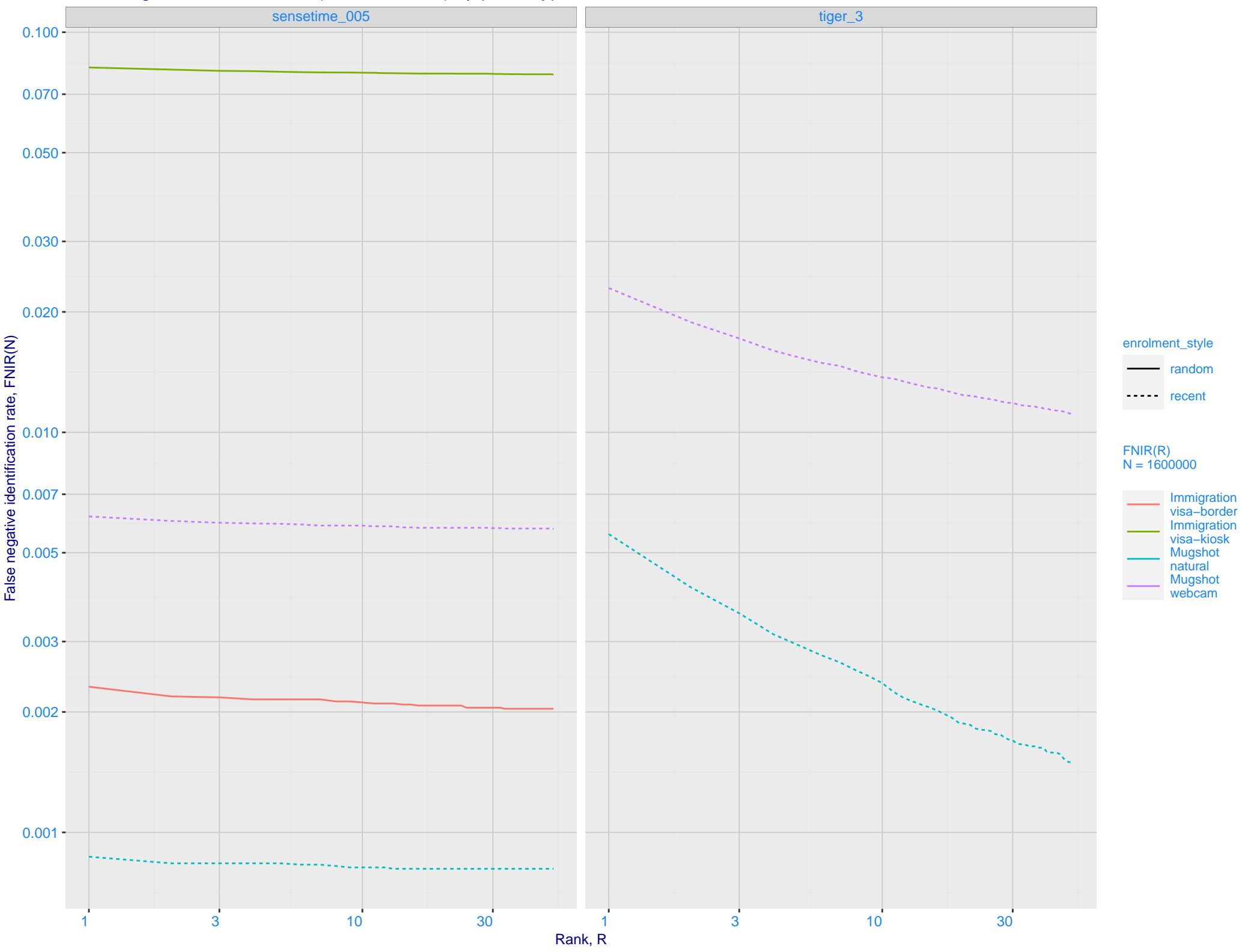G: FPIR dependence on T by probe type for N = 1600000 subjects

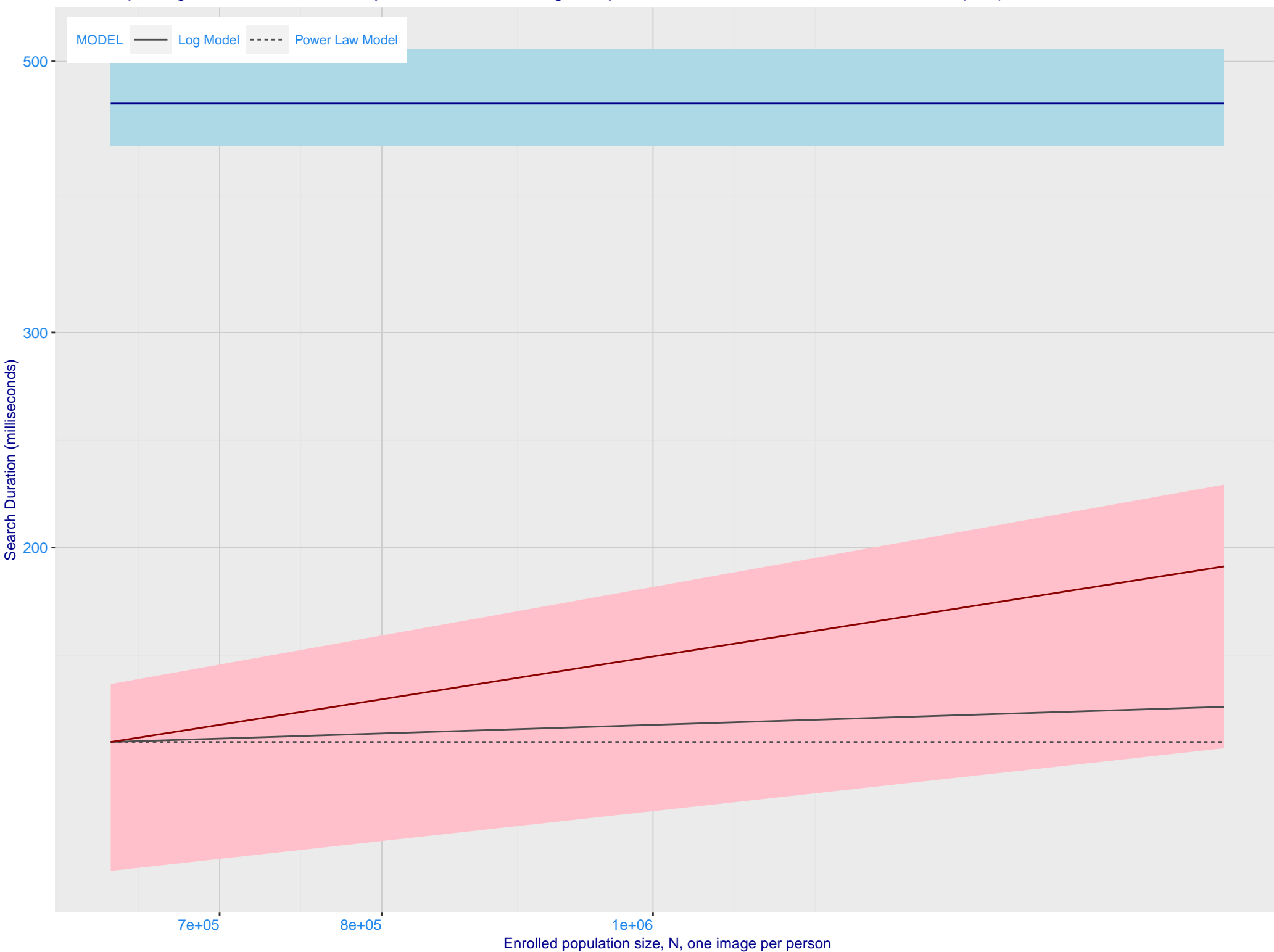H: DET for Mugshot natural images and various N. Links connect points of equal threshold.

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