

A: Datasheet

Algorithm: microfocus_5

Developer: MicroFocus

Submission Date: 2018_10_29

Template size: 256 bytes

Template time (2.5 percentile): 225 msec

Template time (median): 263 msec

Template time (97.5 percentile): 312 msec

Investigation:

Frontal mugshot ranking 248 (out of 259) -- FNIR(1600000, 0, 1) = 0.4242 vs. lowest 0.0009 from sensetime_005

Mugshot webcam ranking 213 (out of 221) -- FNIR(1600000, 0, 1) = 0.6010 vs. lowest 0.0062 from sensetime_005

Immigration visa-border ranking 125 (out of 142) -- FNIR(1600000, 0, 1) = 0.4943 vs. lowest 0.0014 from visionlabs_009

Immigration visa-kiosk ranking 125 (out of 139) -- FNIR(1600000, 0, 1) = 0.7774 vs. lowest 0.0694 from cib_000

Identification:

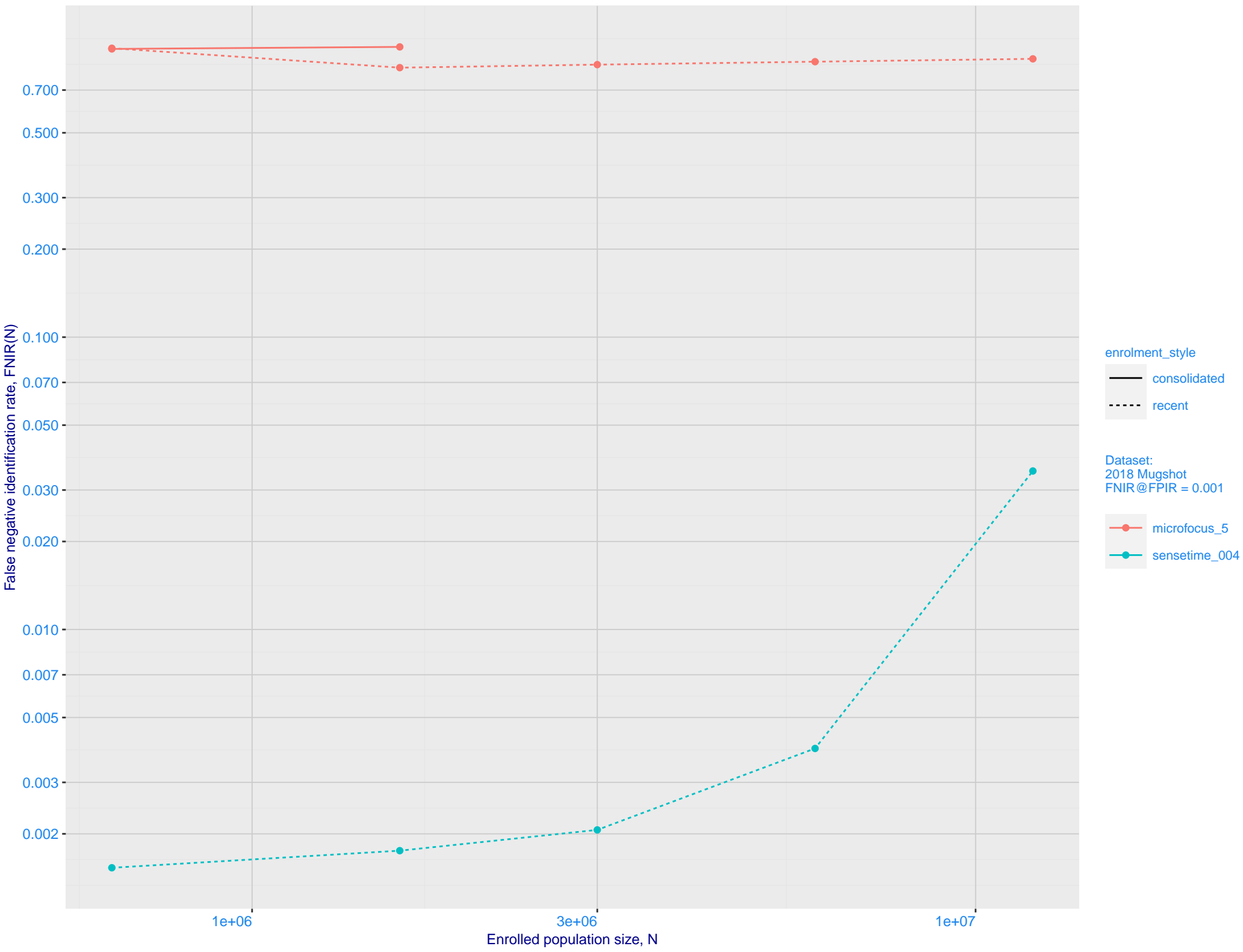
Frontal mugshot ranking 241 (out of 259) -- FNIR(1600000, T, L+1) = 0.8352, FPIR=0.001000 vs. lowest 0.0018 from sensetime_004

Mugshot webcam ranking 205 (out of 219) -- FNIR(1600000, T, L+1) = 0.9281, FPIR=0.001000 vs. lowest 0.0122 from sensetime_003

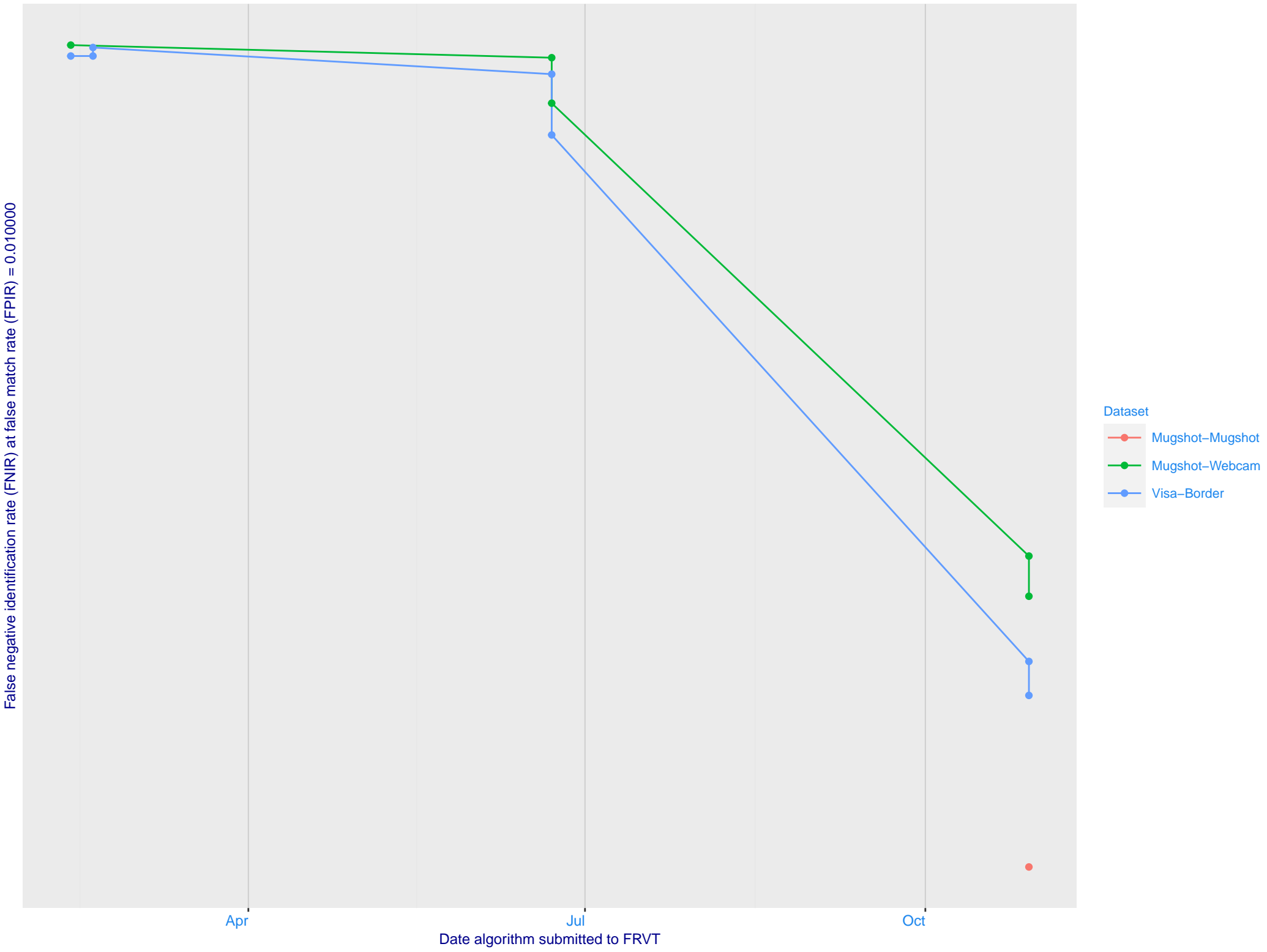
Immigration visa-border ranking 119 (out of 139) -- FNIR(1600000, T, L+1) = 0.9348, FPIR=0.001000 vs. lowest 0.0059 from sensetime_004

Immigration visa-kiosk ranking 114 (out of 134) -- FNIR(1600000, T, L+1) = 0.9848, FPIR=0.001000 vs. lowest 0.1048 from sensetime_005

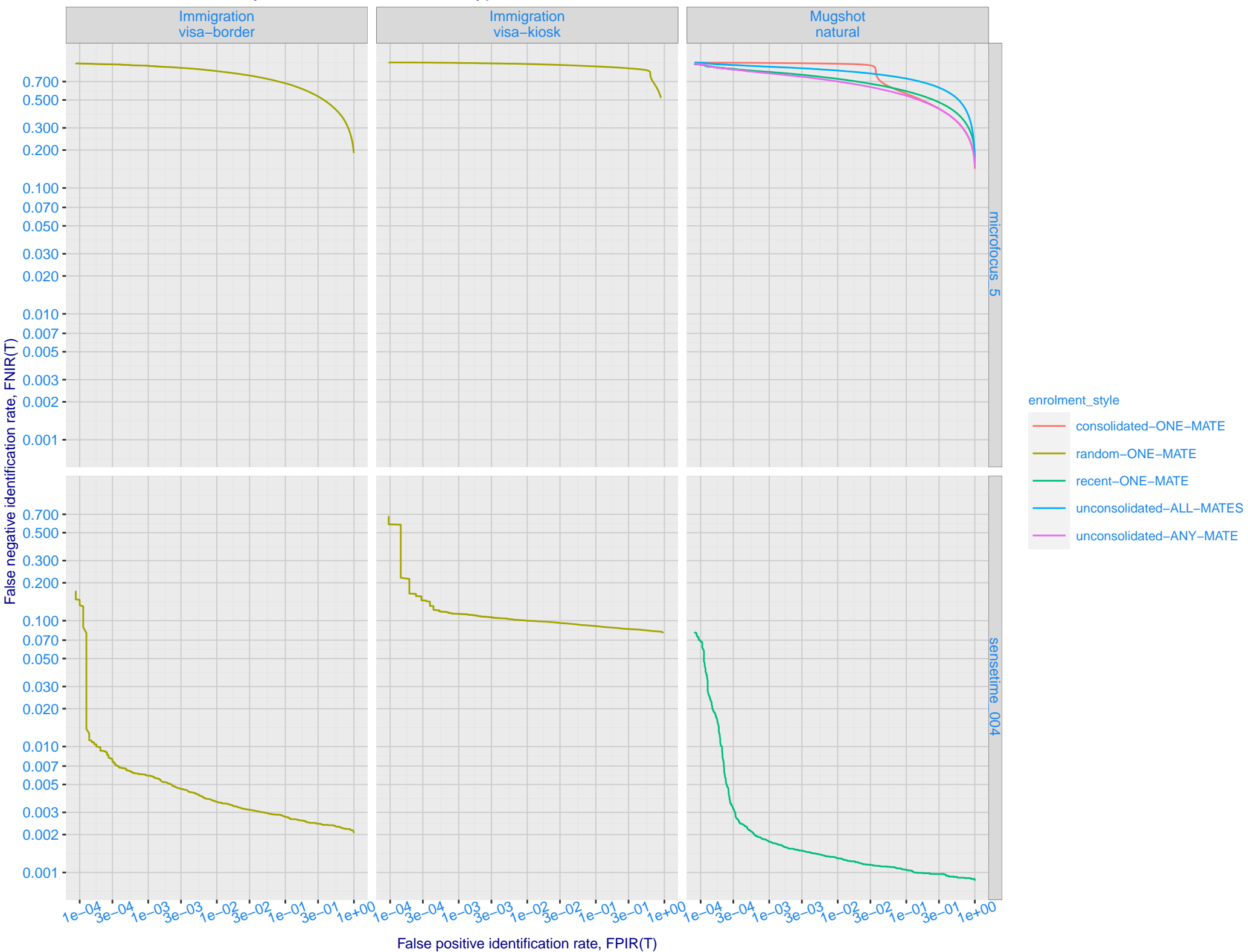
B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime_004)



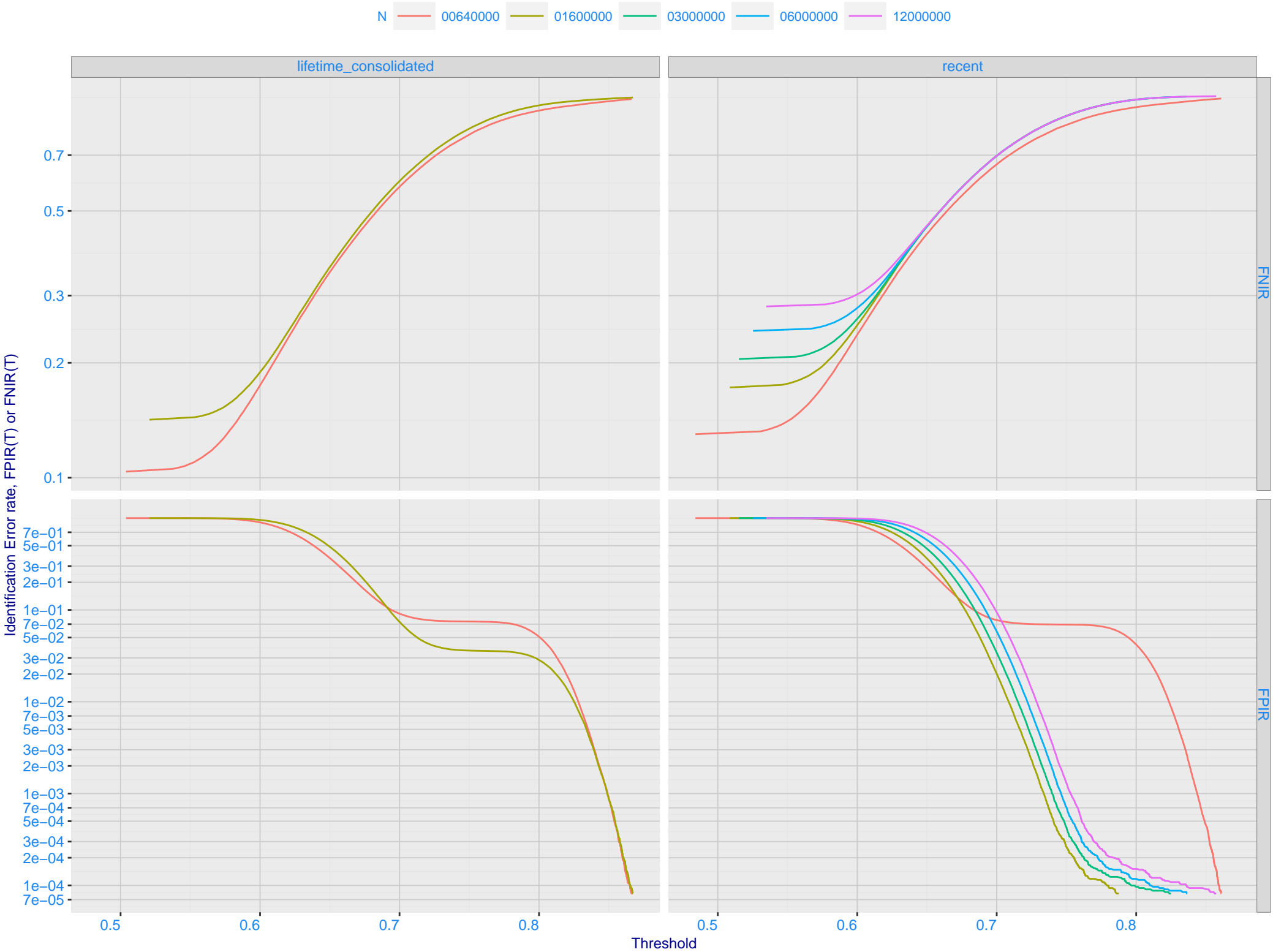
C: Evolution of accuracy for MICROFOCUS algorithms on three datasets 2018 – present



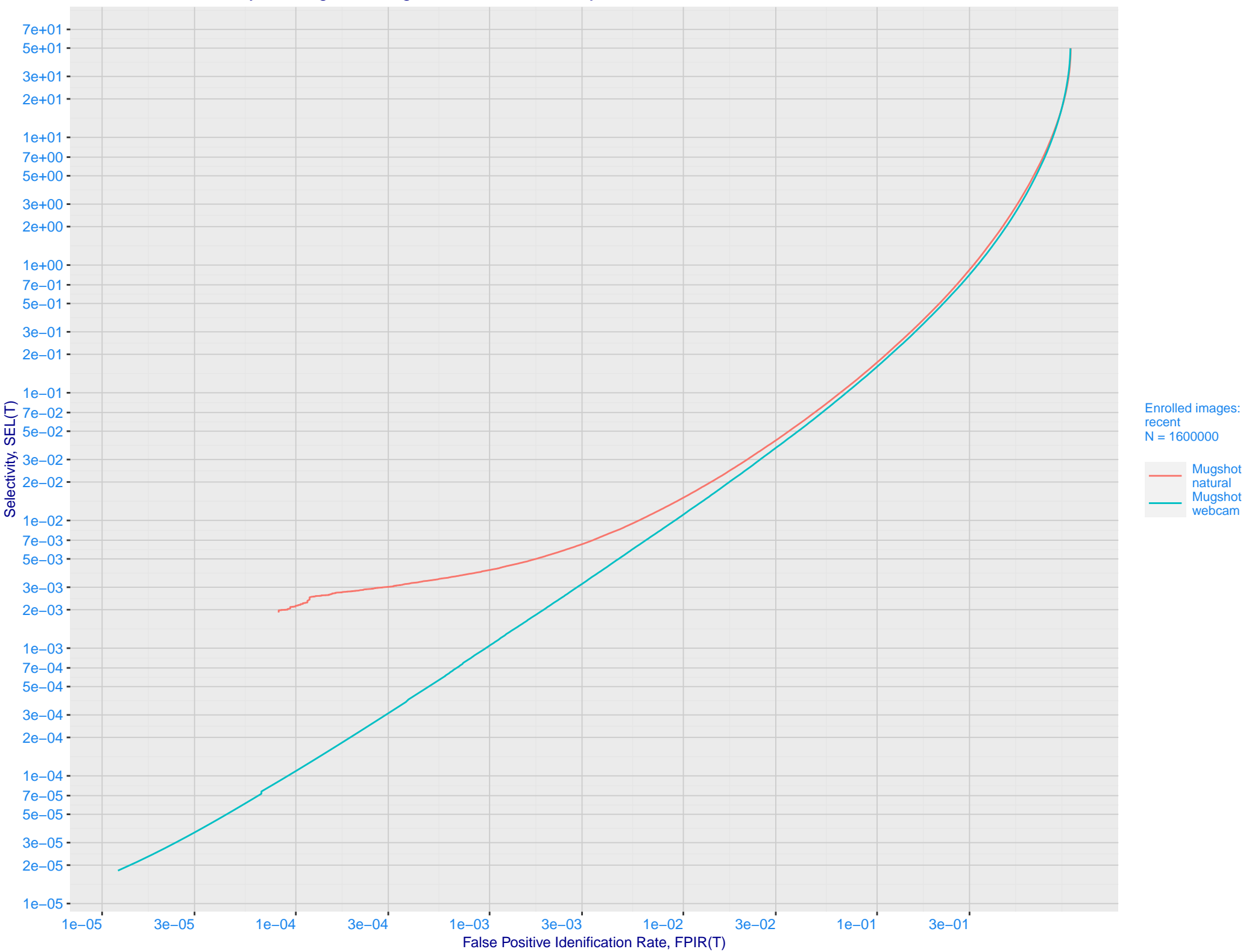
D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals

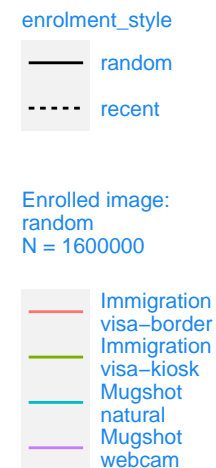


E: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images

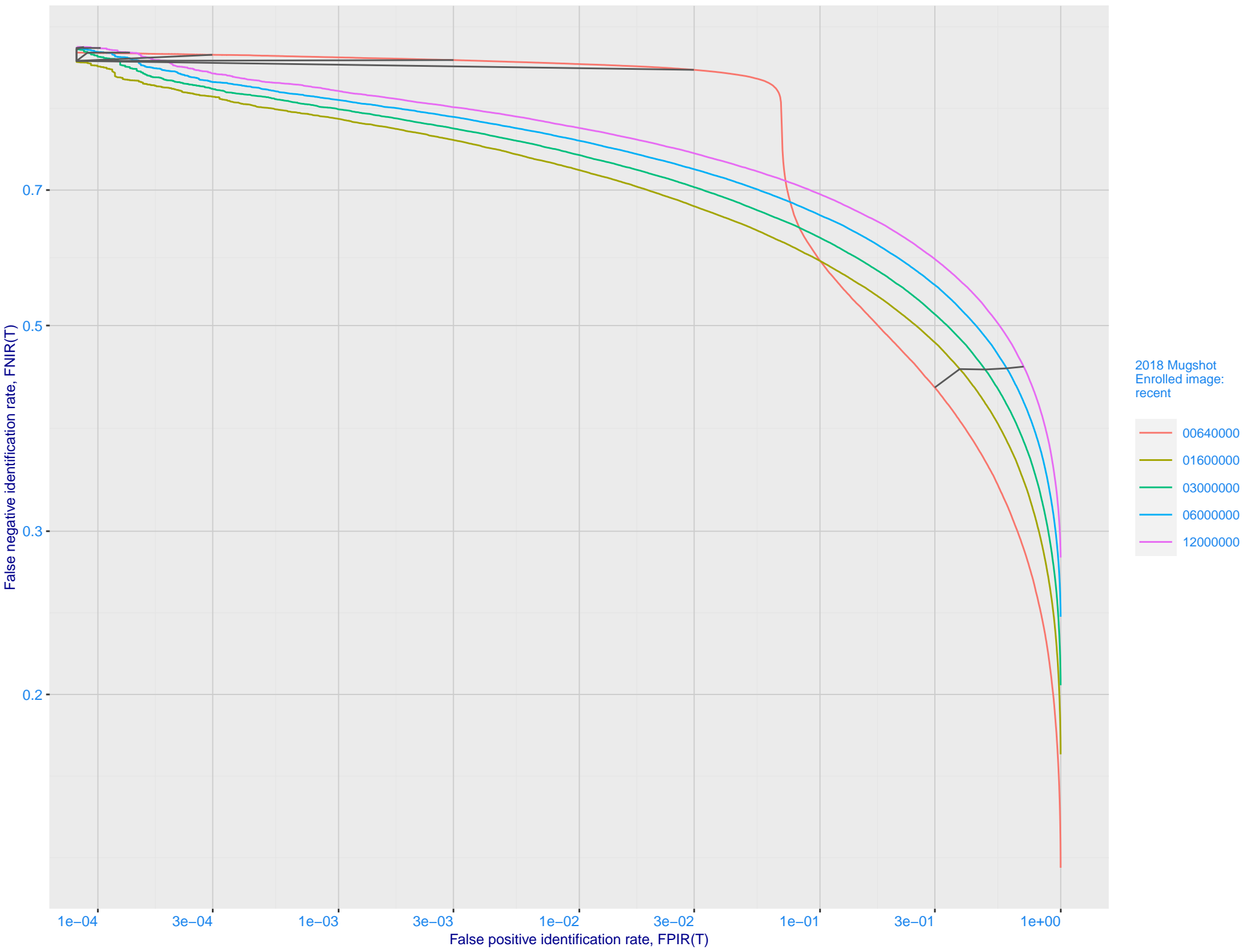


F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate

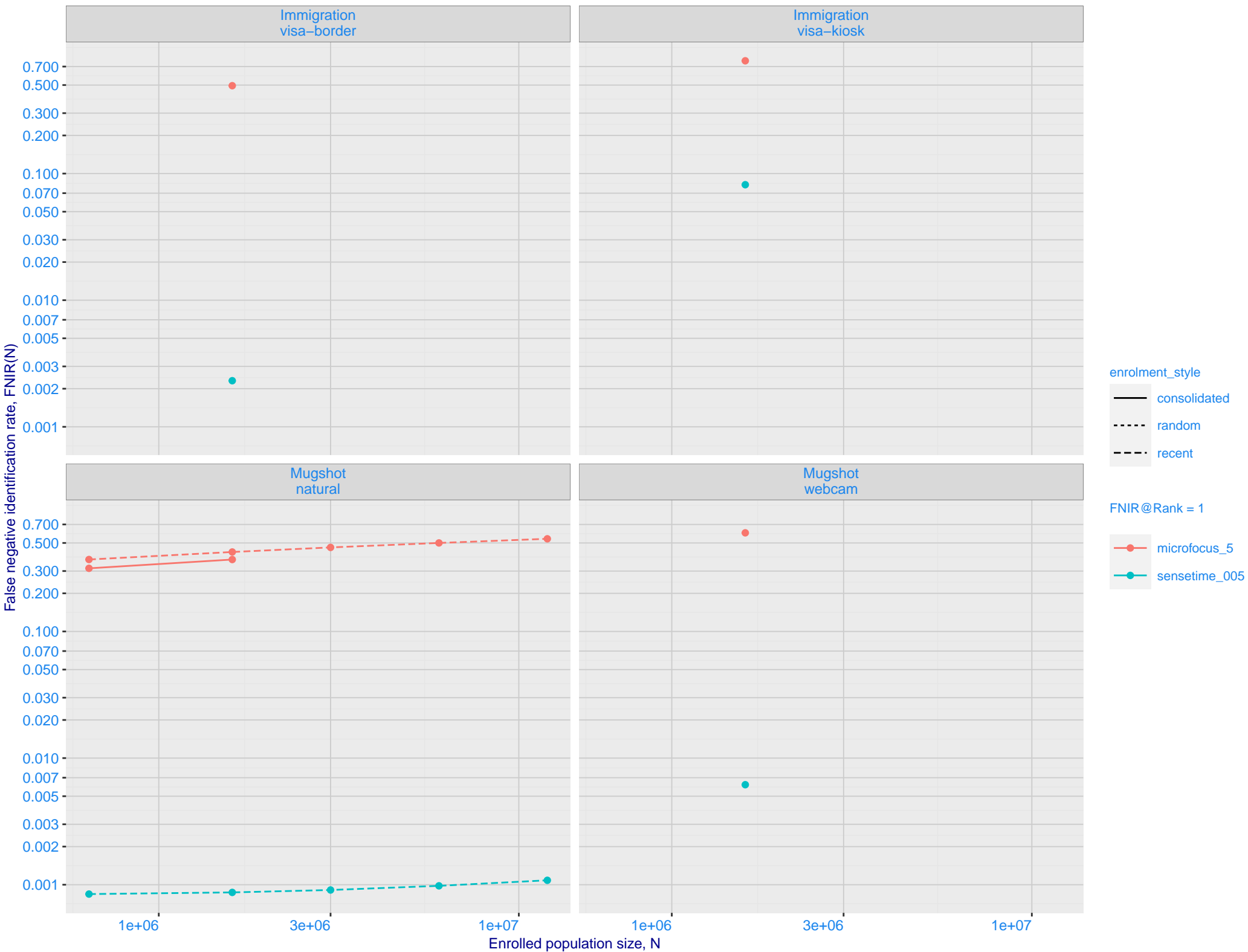




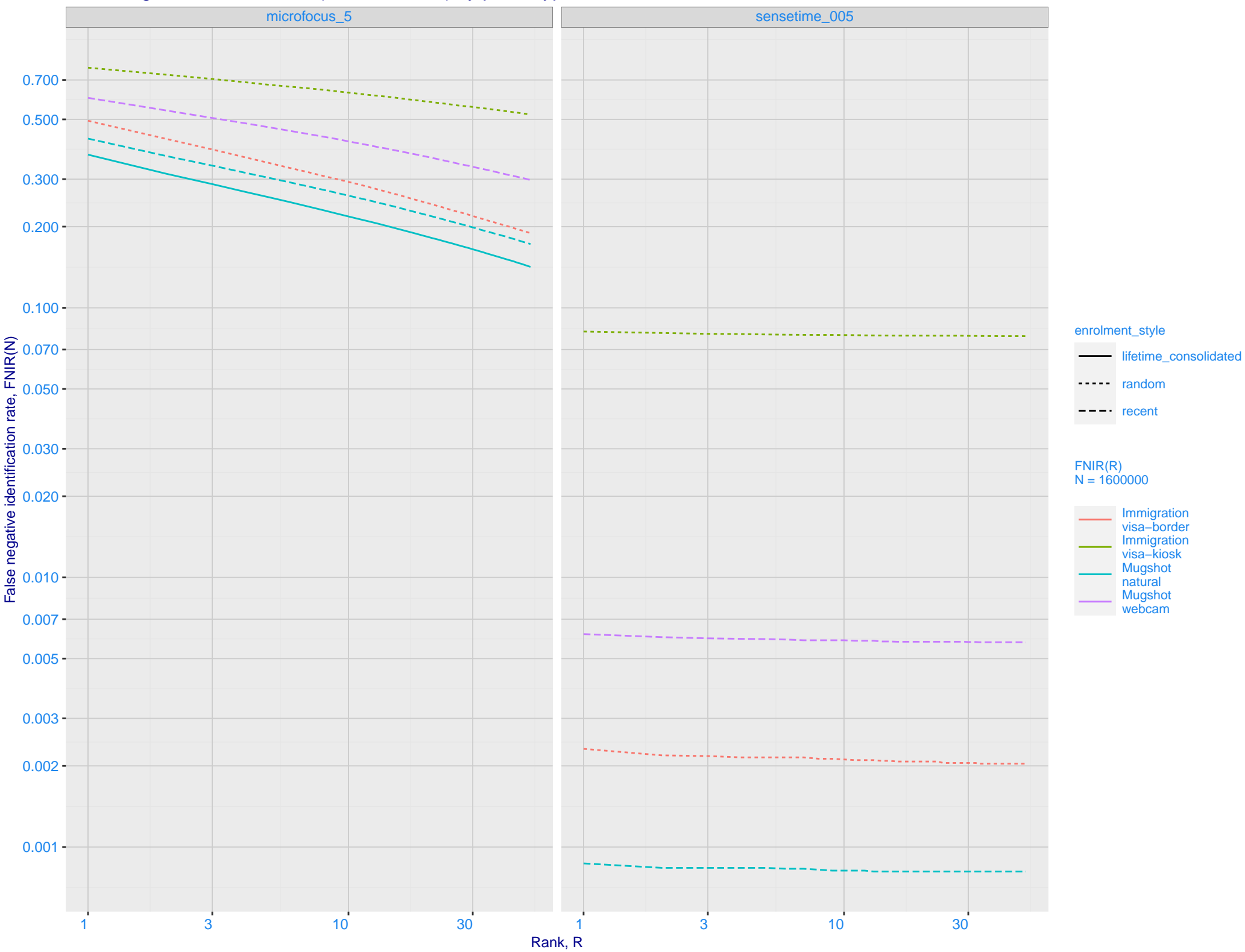
H: DET for Mugshot natural images and various N. Links connect points of equal threshold.



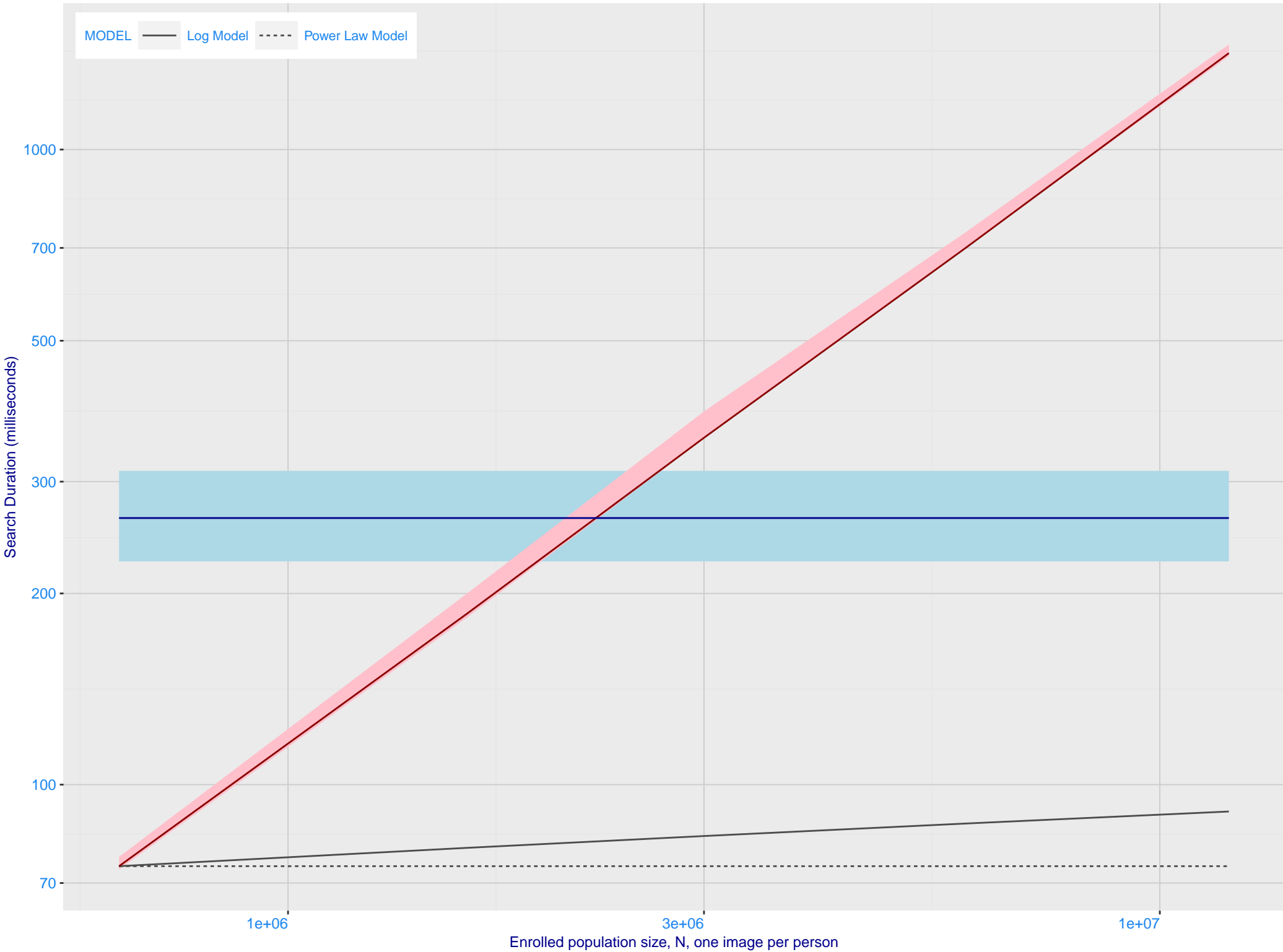
I: Investigational mode: FNIR(N, 1, 0) vs. most accurate (sensetime_005)



J: Investigational mode: FNIR(1600000, R, 0) by probe type

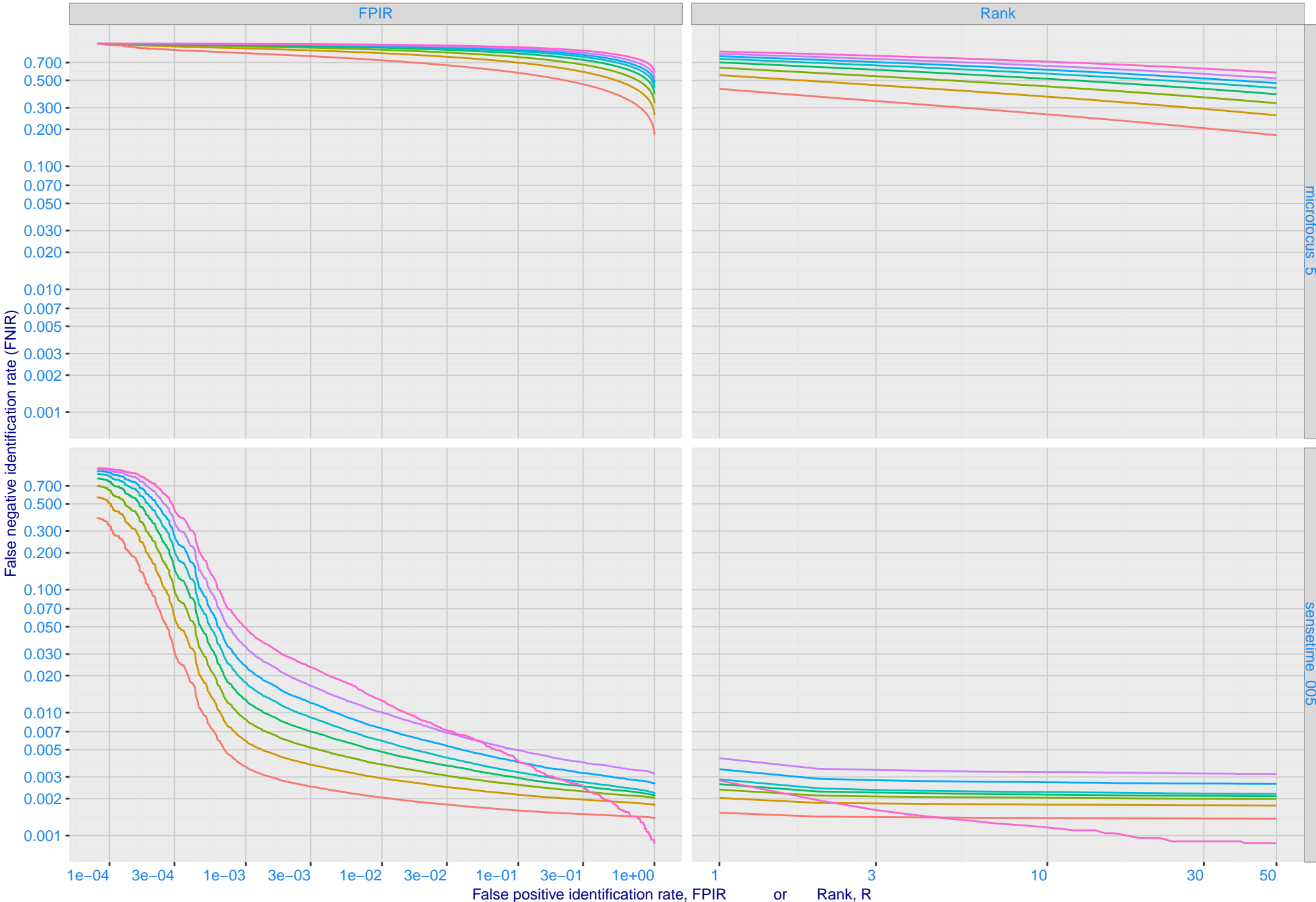


Template duration; search duration vs. N. The blue and pink ribbon covers 95 percent of observed measurements. The template generation time is independent of N. The log and power-law models are fit to the first two (N,T) observations



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

Dataset: 2018 Mugshot N = 3068801



N: Decline of genuine scores with ageing

