

A: Datasheet

Algorithm: eyedea_2

Developer: Eyedea Recognition

Submission Date: 2018_02_16

Template size: 1036 bytes

Template time (2.5 percentile): 353 msec

Template time (median): 426 msec

Template time (97.5 percentile): 520 msec

Investigation:

Frontal mugshot ranking 232 (out of 259) -- FNIR(1600000, 0, 1) = 0.1979 vs. lowest 0.0009 from sensetime_005

Mugshot profile ranking 121 (out of 190) -- FNIR(1600000, 0, 1) = 0.9343 vs. lowest 0.0591 from sensetime_005

Immigration visa-border ranking 113 (out of 142) -- FNIR(1600000, 0, 1) = 0.2298 vs. lowest 0.0014 from visionlabs_009

Immigration visa-kiosk ranking 115 (out of 139) -- FNIR(1600000, 0, 1) = 0.4965 vs. lowest 0.0694 from cib_000

Identification:

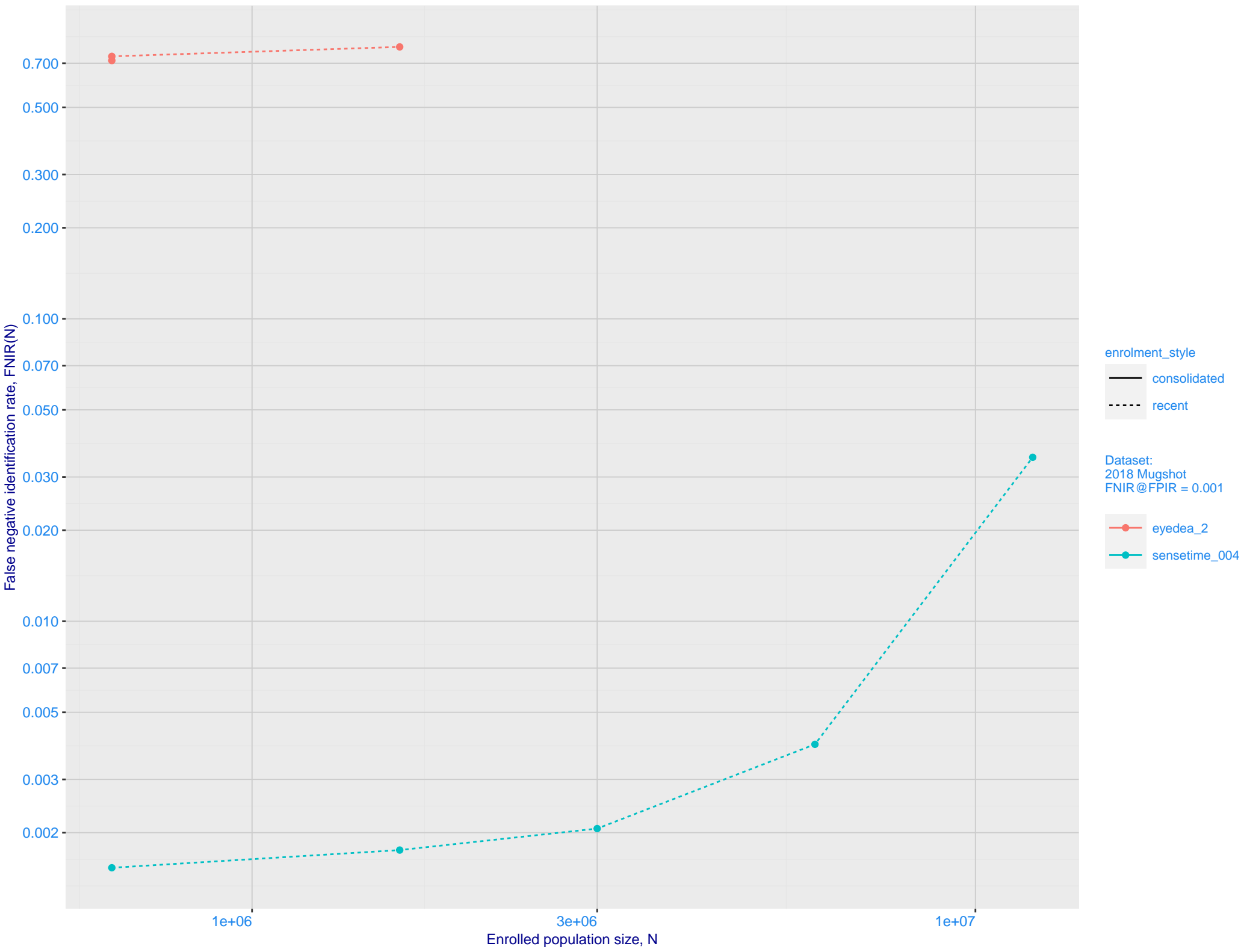
Frontal mugshot ranking 235 (out of 259) -- FNIR(1600000, T, L+1) = 0.7926, FPIR=0.001000 vs. lowest 0.0018 from sensetime_004

Mugshot profile ranking 138 (out of 189) -- FNIR(1600000, T, L+1) = 0.9994, FPIR=0.001000 vs. lowest 0.1733 from sensetime_005

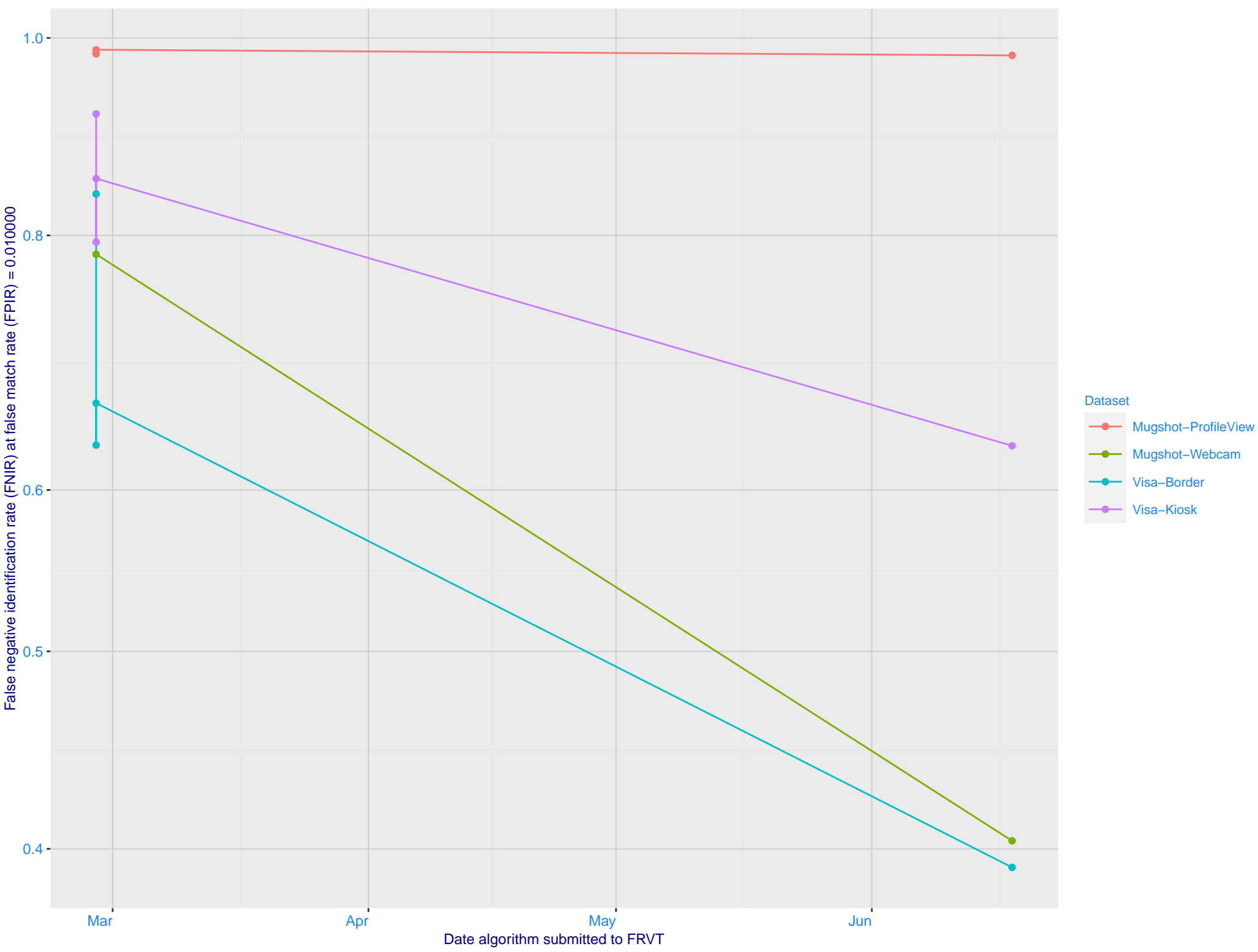
Immigration visa-border ranking 113 (out of 139) -- FNIR(1600000, T, L+1) = 0.8351, FPIR=0.001000 vs. lowest 0.0059 from sensetime_004

Immigration visa-kiosk ranking 106 (out of 134) -- FNIR(1600000, T, L+1) = 0.9471, FPIR=0.001000 vs. lowest 0.1048 from sensetime_005

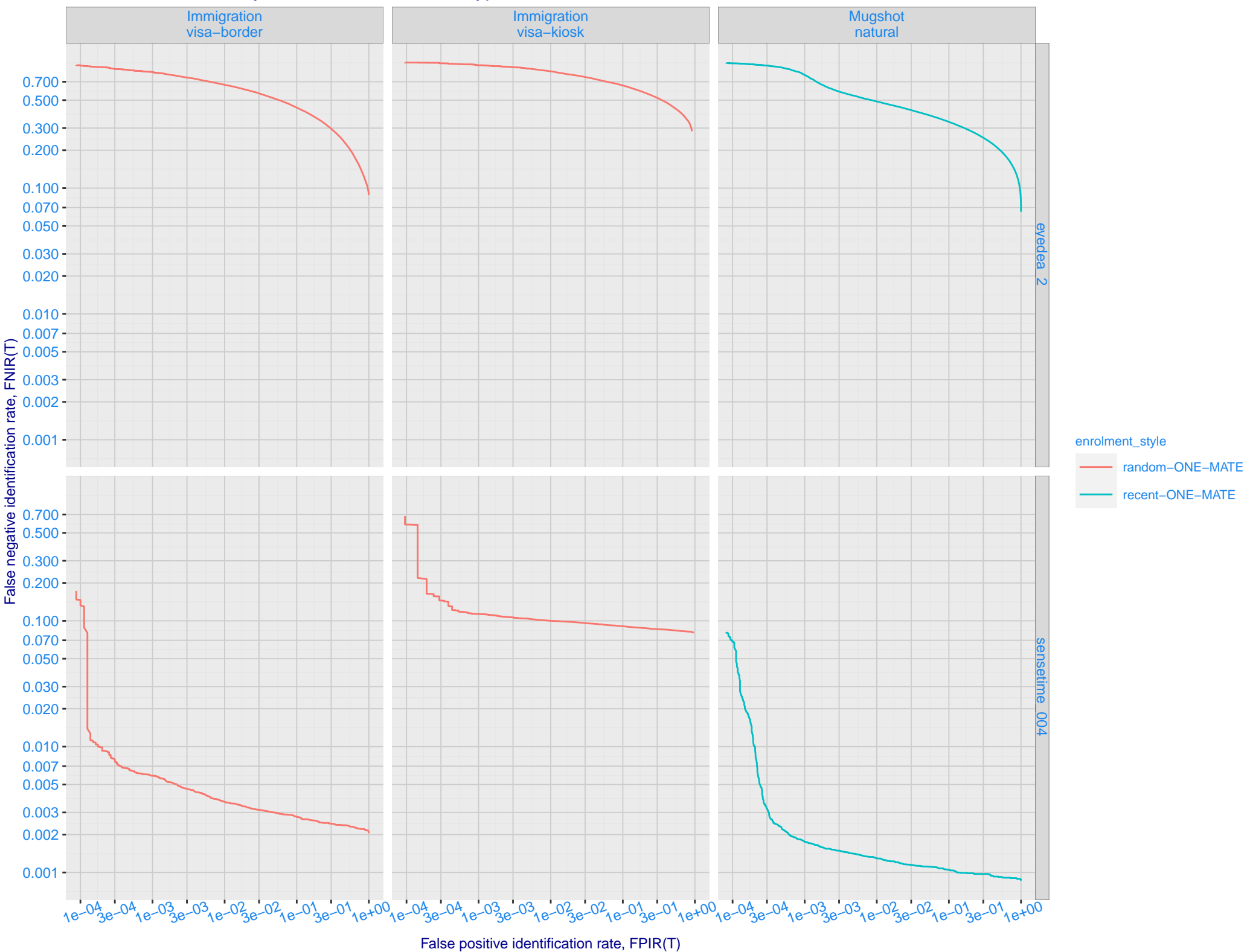
B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime_004)



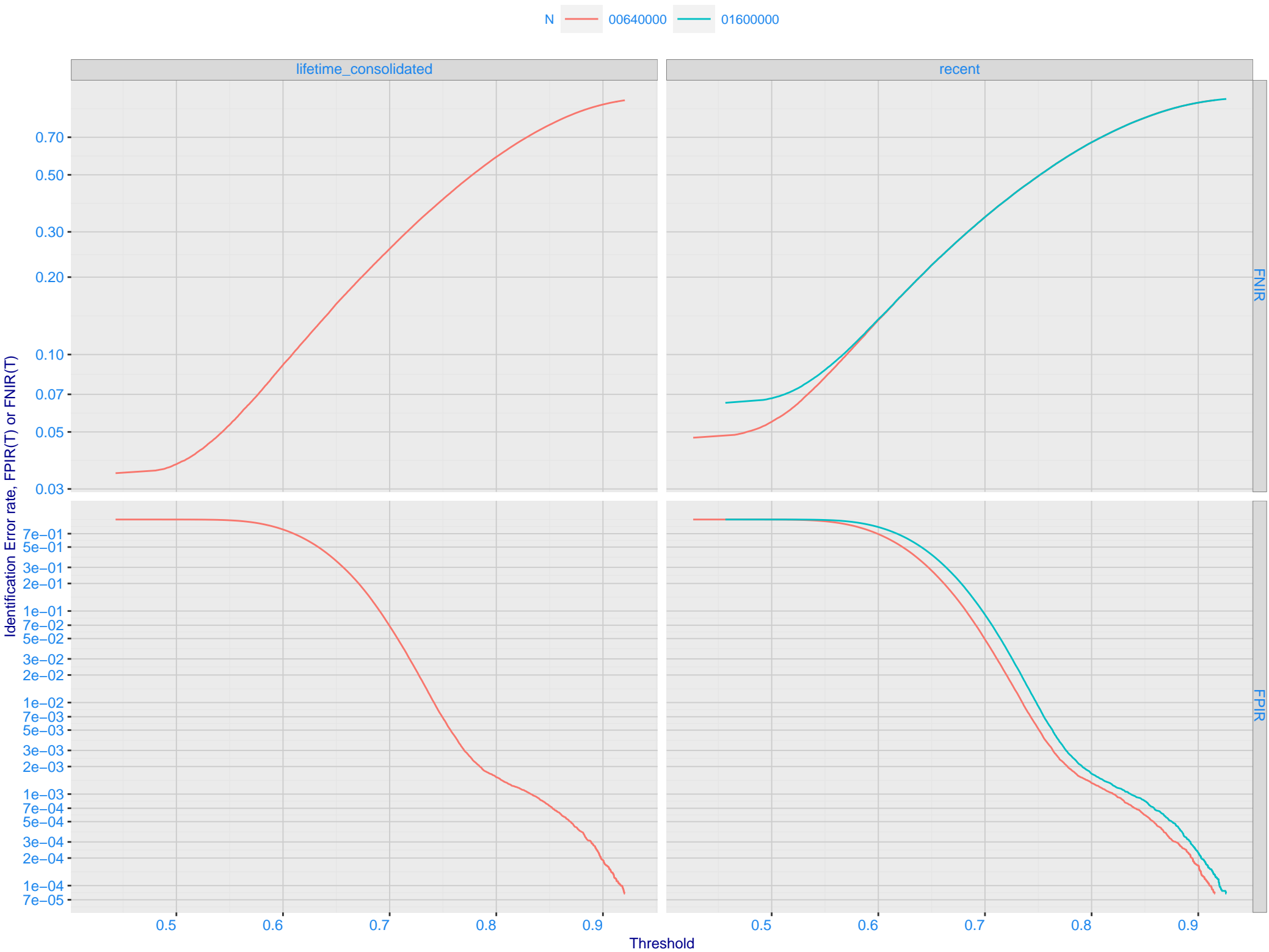
C: Evolution of accuracy for EYEDEA algorithms on three datasets 2018 – present



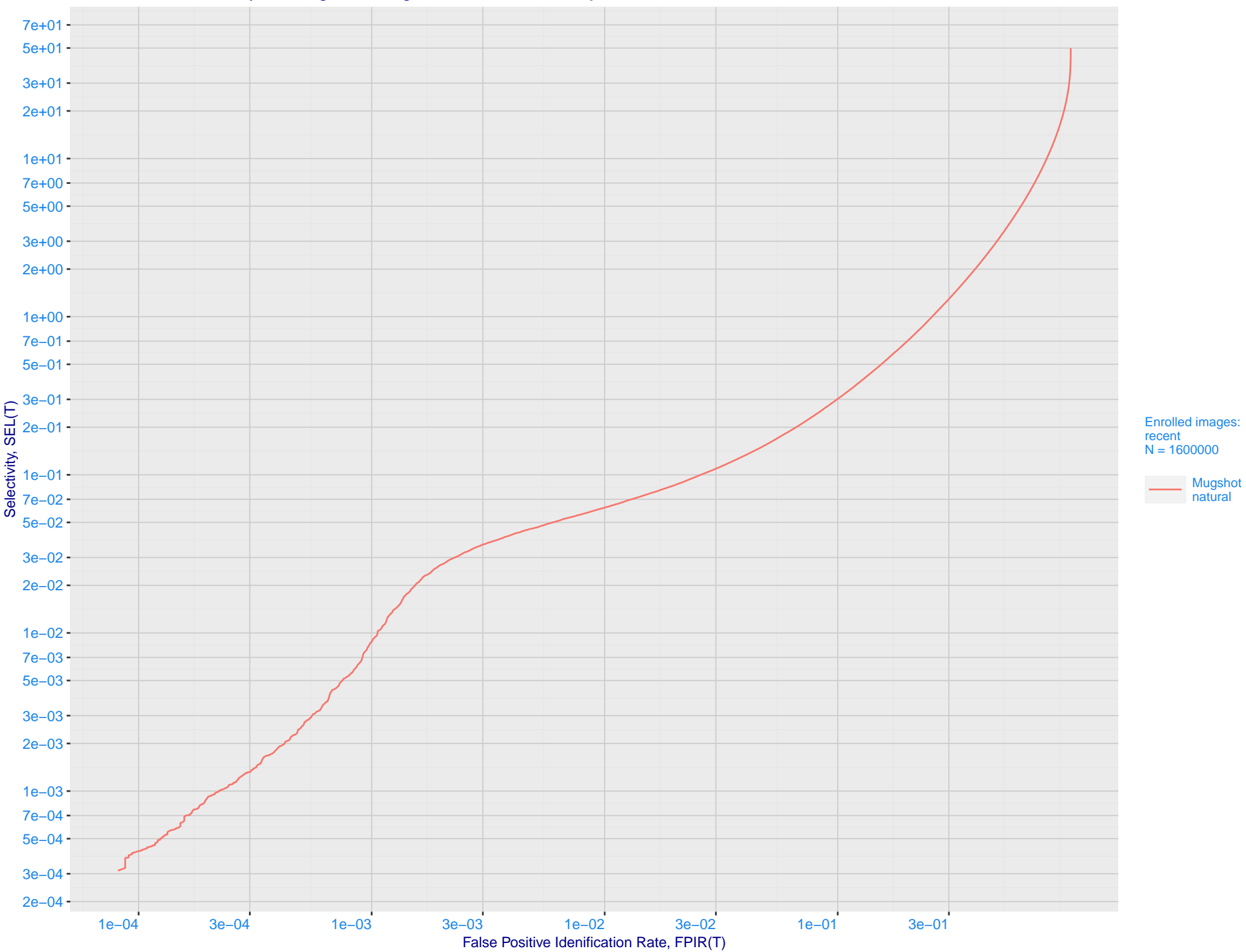
D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



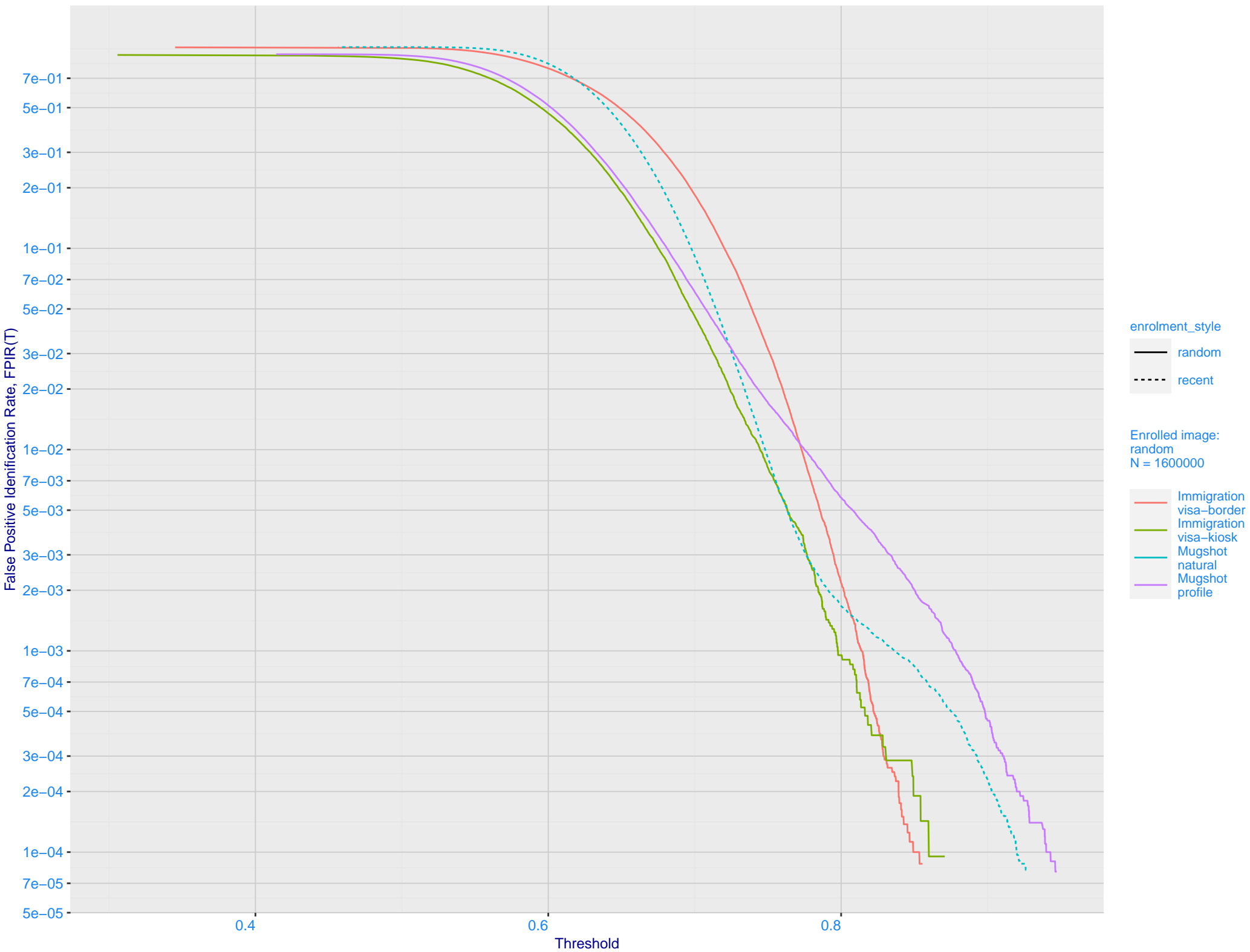
E: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



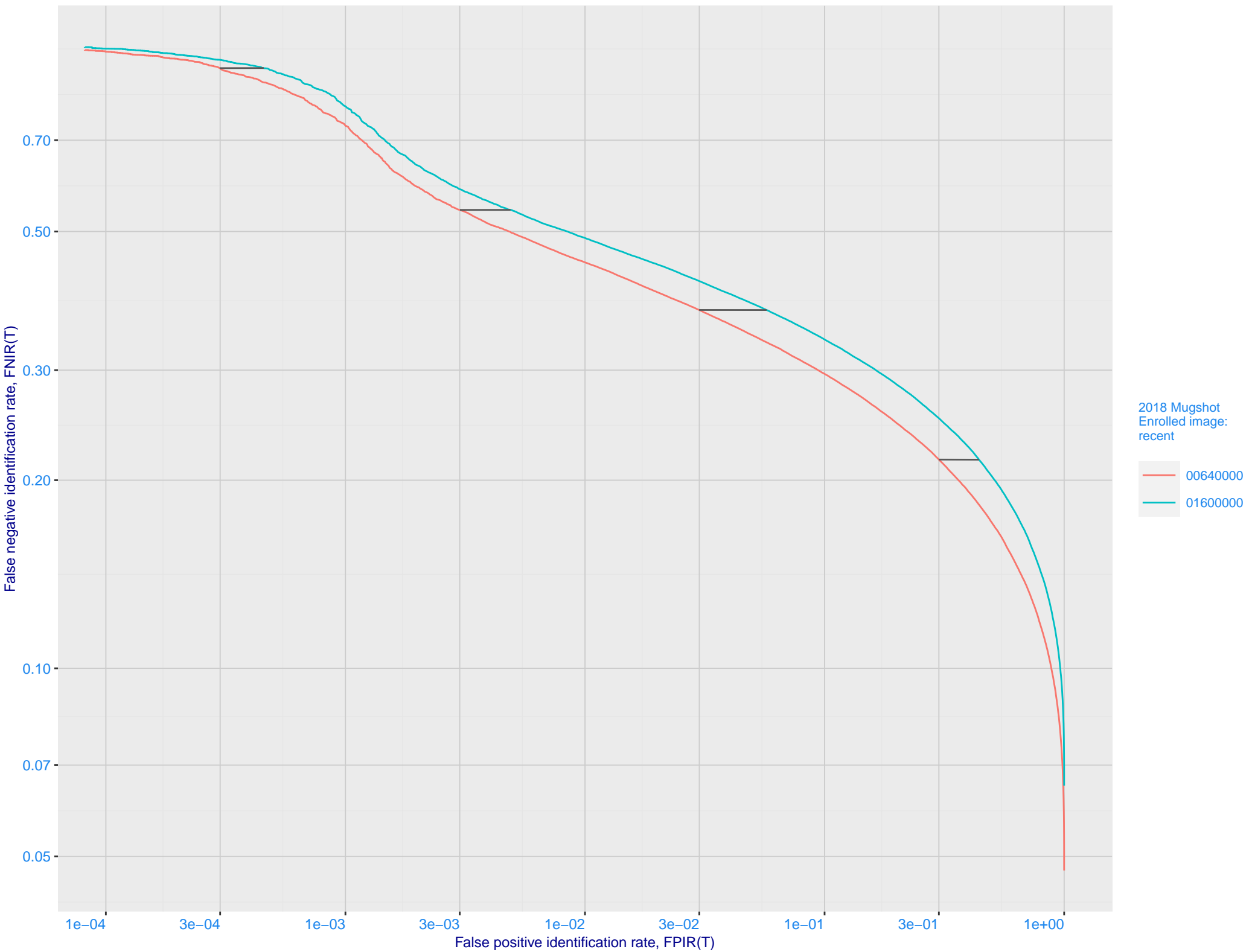
F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



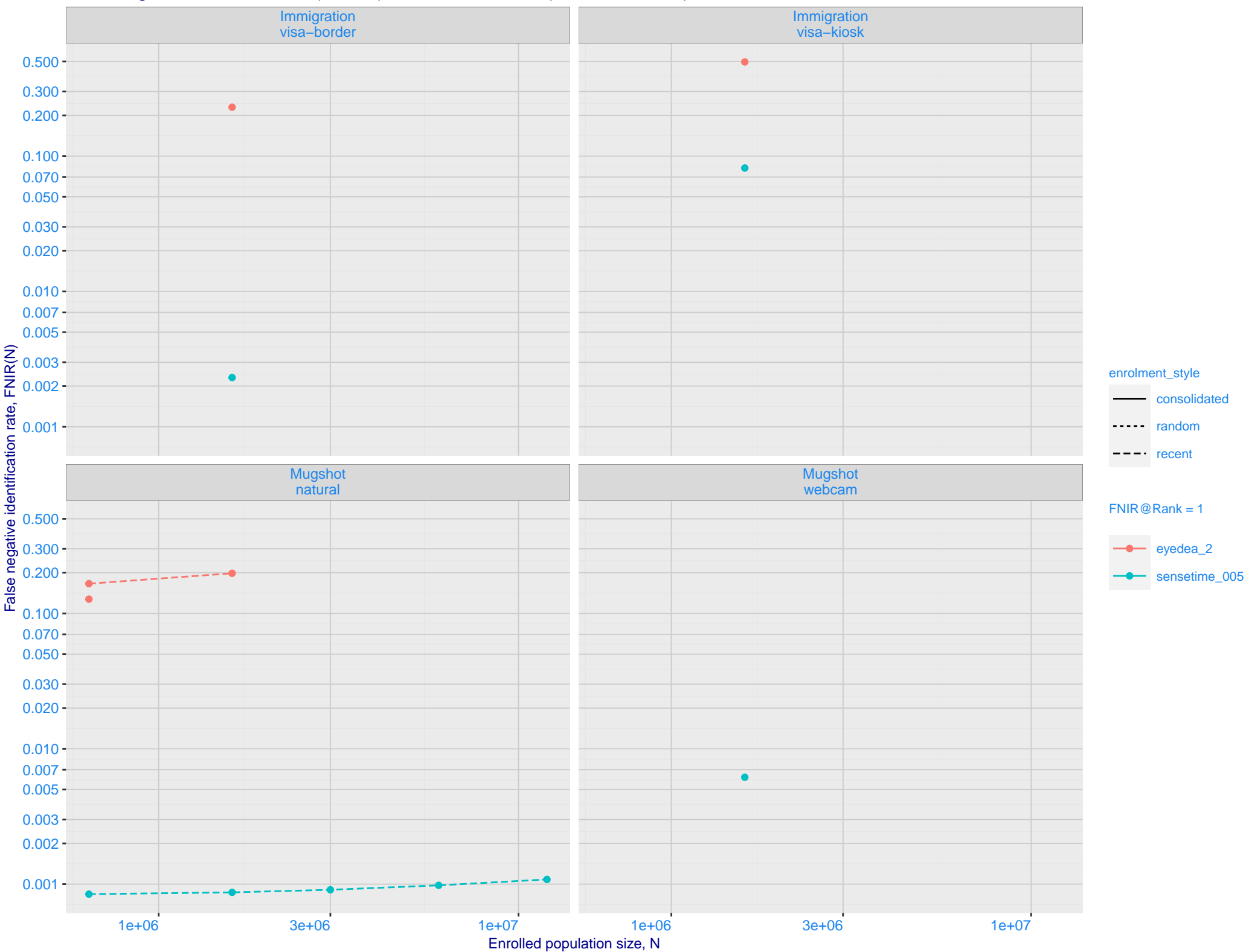
G: FPIR dependence on T by probe type for N = 1600000 subjects



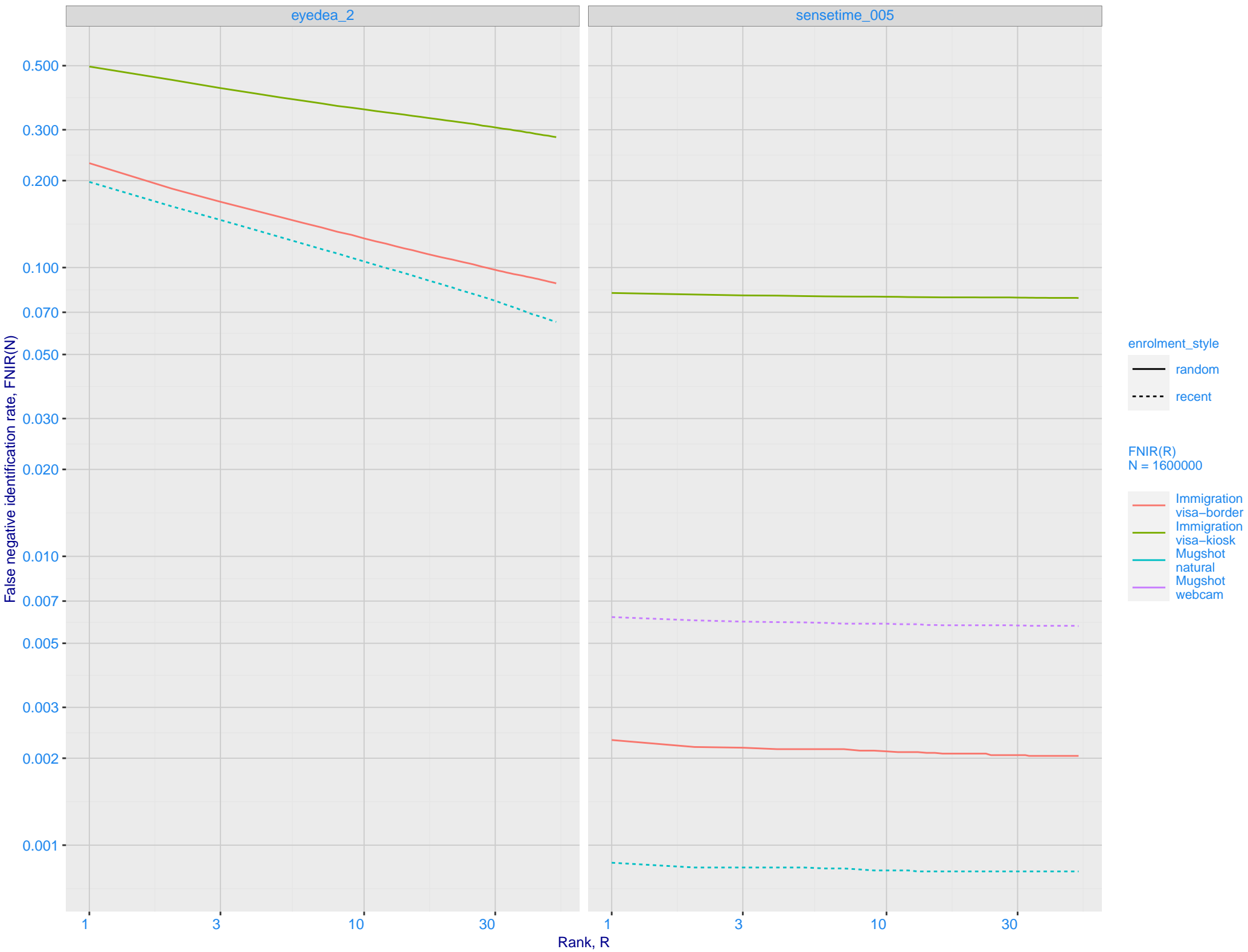
H: DET for Mugshot natural images and various N. Links connect points of equal threshold.



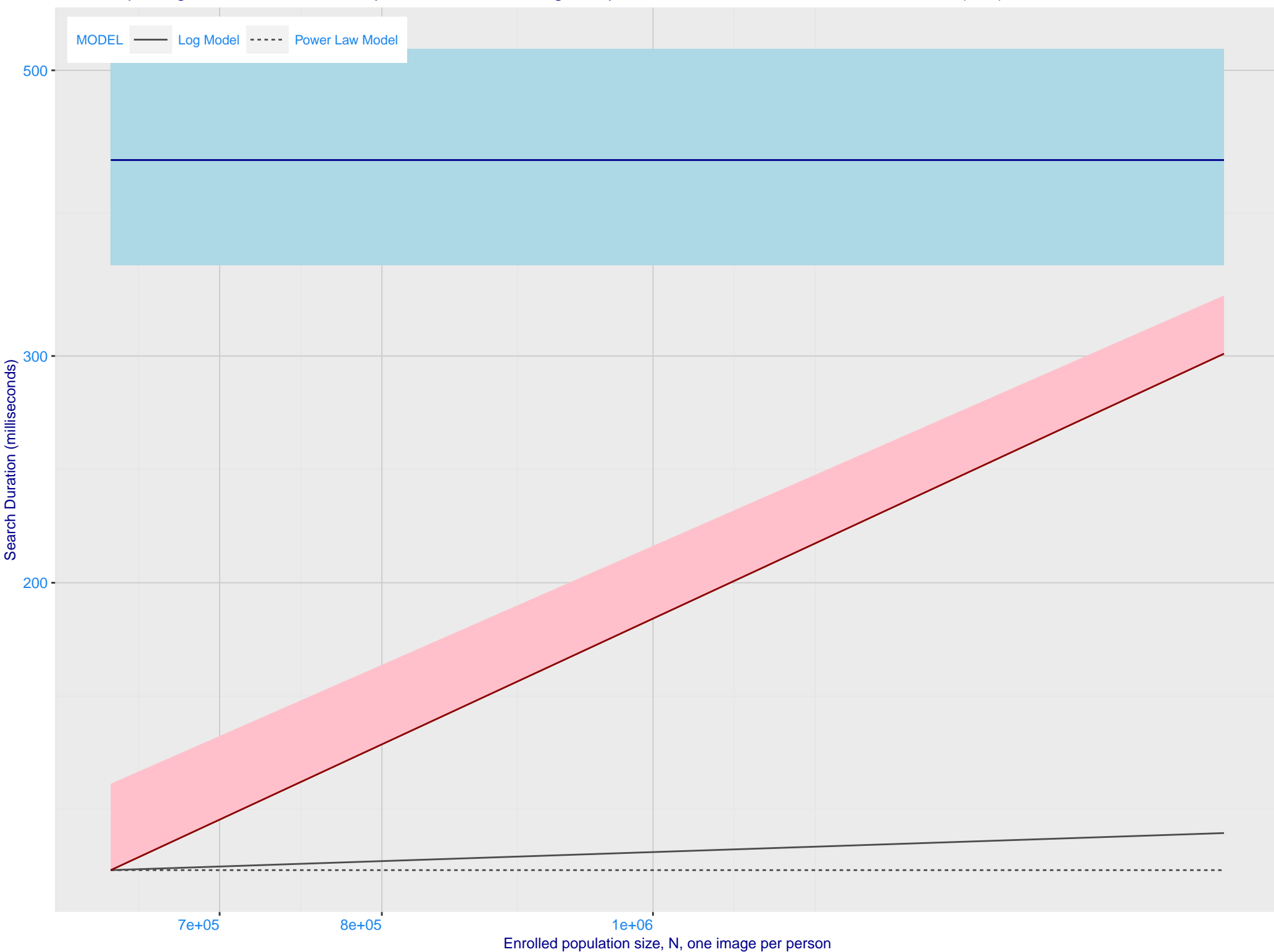
I: Investigational mode: FNIR(N, 1, 0) vs. most accurate (sensetime_005)



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

Dataset: 2018 Mugshot N = 3068801

