

A: Datasheet

Algorithm: allgovision_001

Developer: AllGoVision

Submission Date: 2020_07_14

Template size: 2048 bytes

Template time (2.5 percentile): 772 msec

Template time (median): 778 msec

Template time (97.5 percentile): 851 msec

Investigation:

Frontal mugshot ranking 176 (out of 329) -- FNIR(1600000, 0, 1) = 0.0090 vs. lowest 0.0009 from sensetime_006

Mugshot webcam ranking 191 (out of 291) -- FNIR(1600000, 0, 1) = 0.0383 vs. lowest 0.0057 from sensetime_006

Mugshot profile ranking 123 (out of 260) -- FNIR(1600000, 0, 1) = 0.6609 vs. lowest 0.0550 from sensetime_006

Immigration visa-border ranking 136 (out of 218) -- FNIR(1600000, 0, 1) = 0.0206 vs. lowest 0.0009 from sensetime_006

Immigration visa-kiosk ranking 153 (out of 215) -- FNIR(1600000, 0, 1) = 0.2411 vs. lowest 0.0487 from cubox_000

Identification:

Frontal mugshot ranking 192 (out of 329) -- FNIR(1600000, T, L+1) = 0.1016, FPIR=0.001000 vs. lowest 0.0017 from nec_005

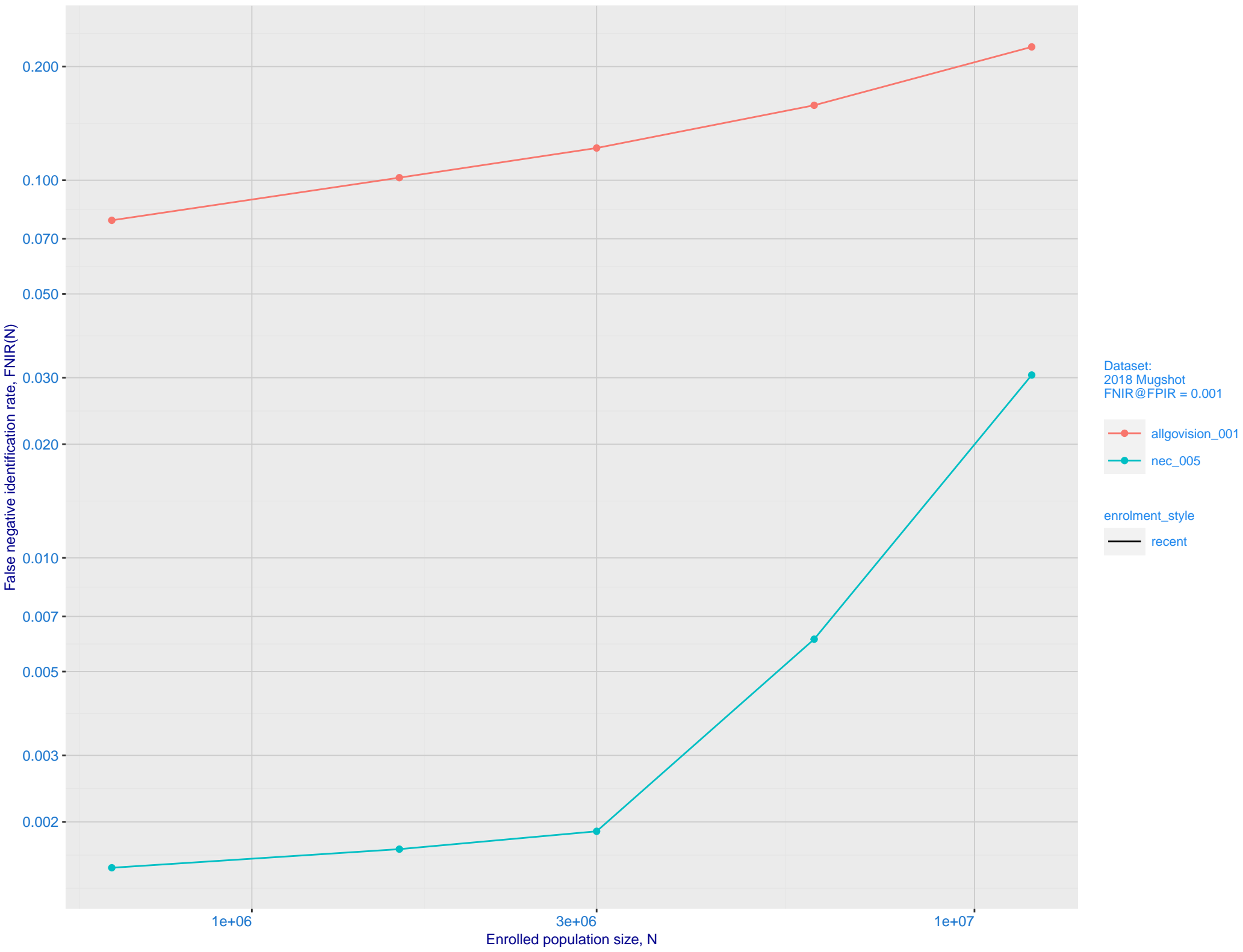
Mugshot webcam ranking 190 (out of 289) -- FNIR(1600000, T, L+1) = 0.2204, FPIR=0.001000 vs. lowest 0.0120 from nec_005

Mugshot profile ranking 98 (out of 259) -- FNIR(1600000, T, L+1) = 0.9857, FPIR=0.001000 vs. lowest 0.1331 from cloudwalk_hr_000

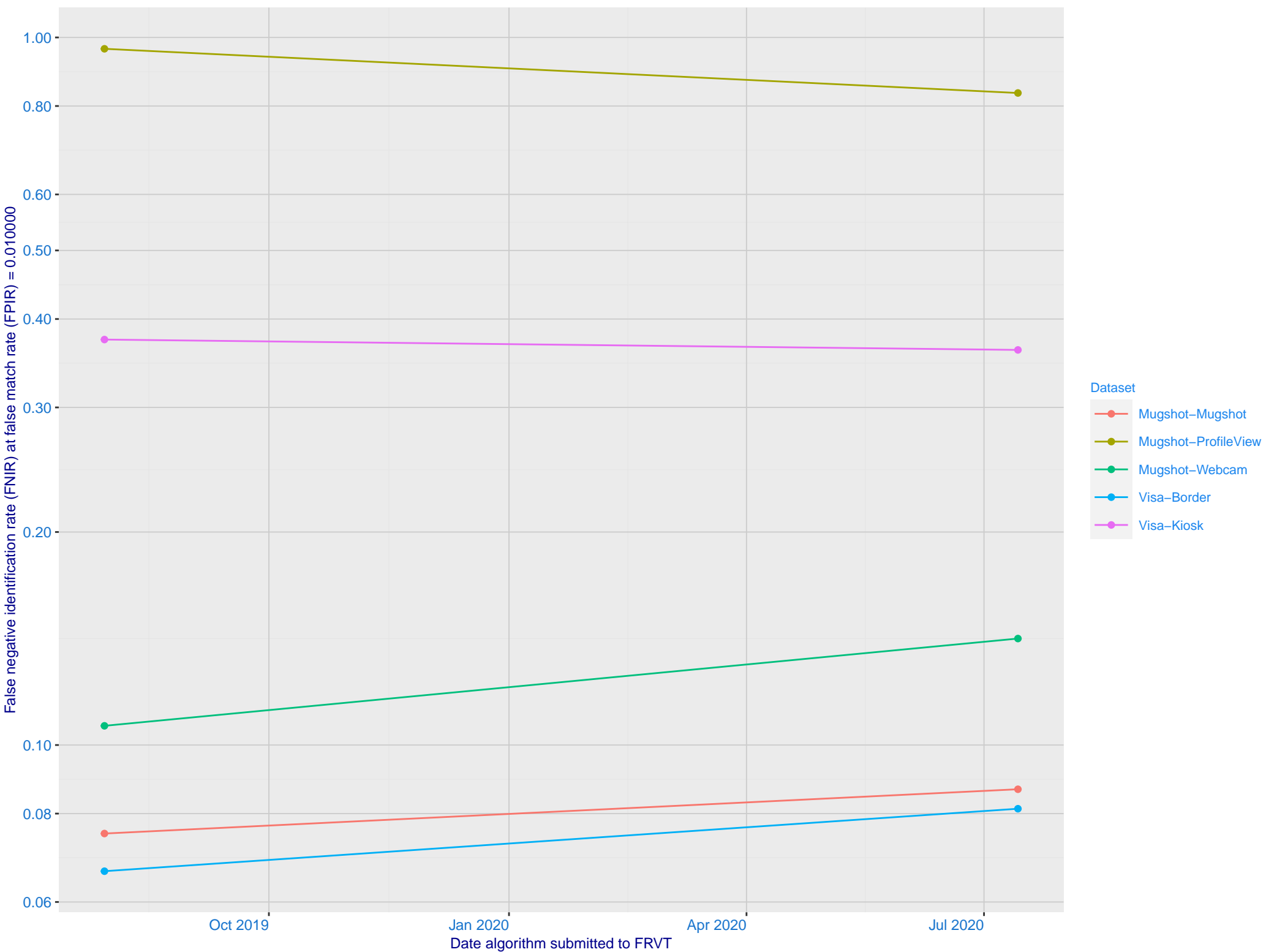
Immigration visa-border ranking 138 (out of 217) -- FNIR(1600000, T, L+1) = 0.1503, FPIR=0.001000 vs. lowest 0.0032 from paravision_009

Immigration visa-kiosk ranking 108 (out of 212) -- FNIR(1600000, T, L+1) = 0.4926, FPIR=0.001000 vs. lowest 0.0728 from paravision_009

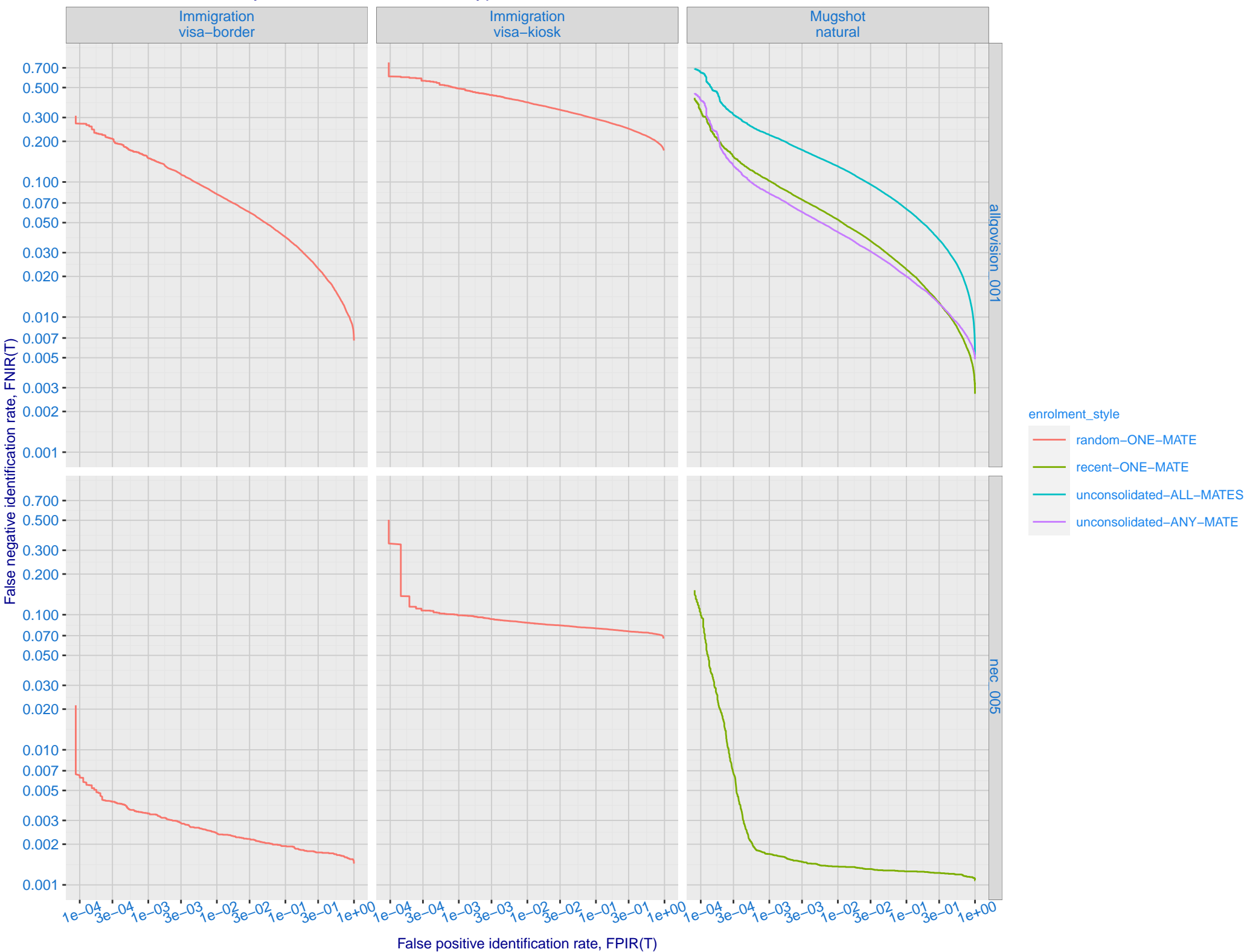
B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (nec_005)



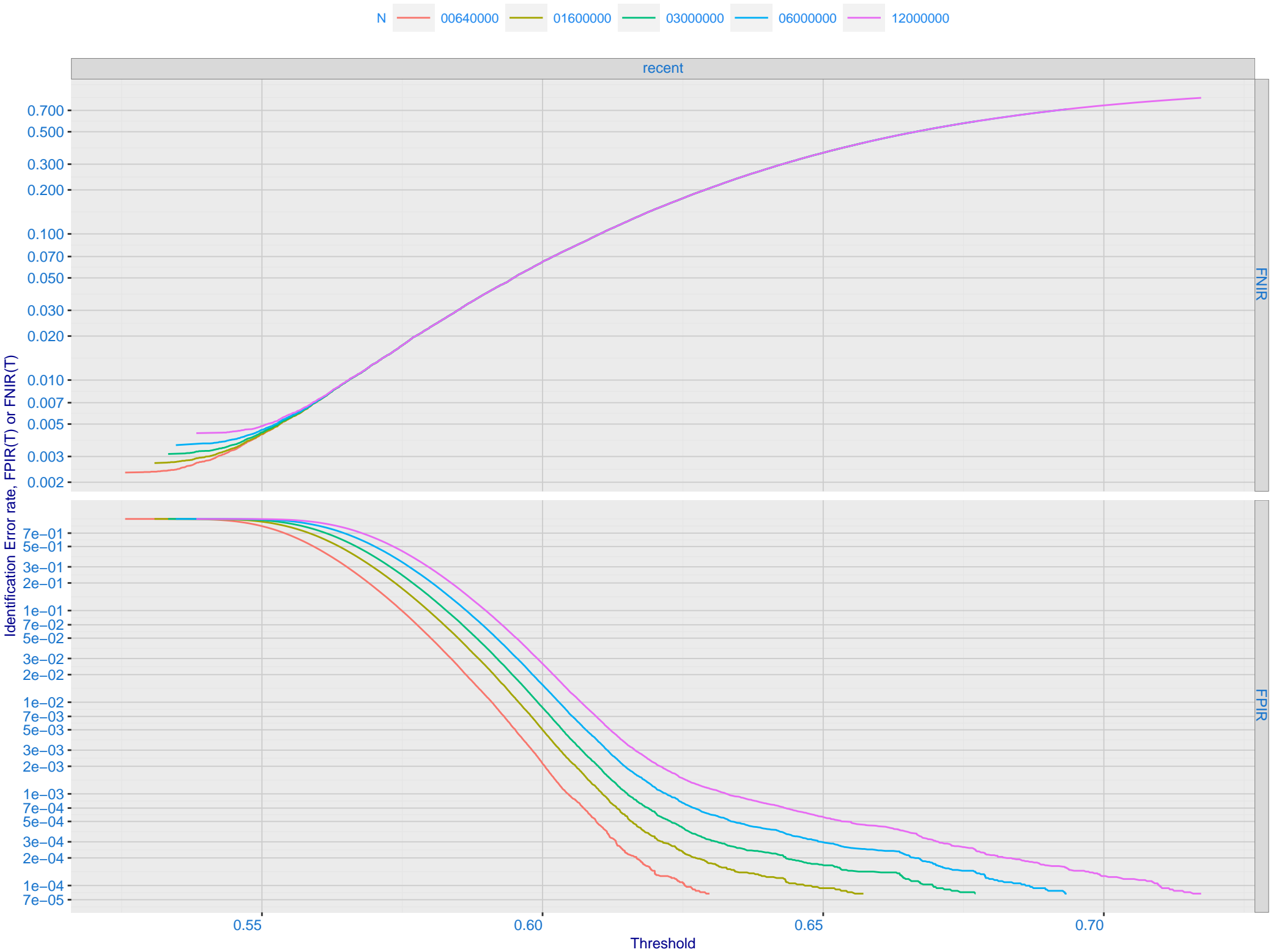
C: Evolution of accuracy for ALLGOVISION algorithms on three datasets 2018 – present



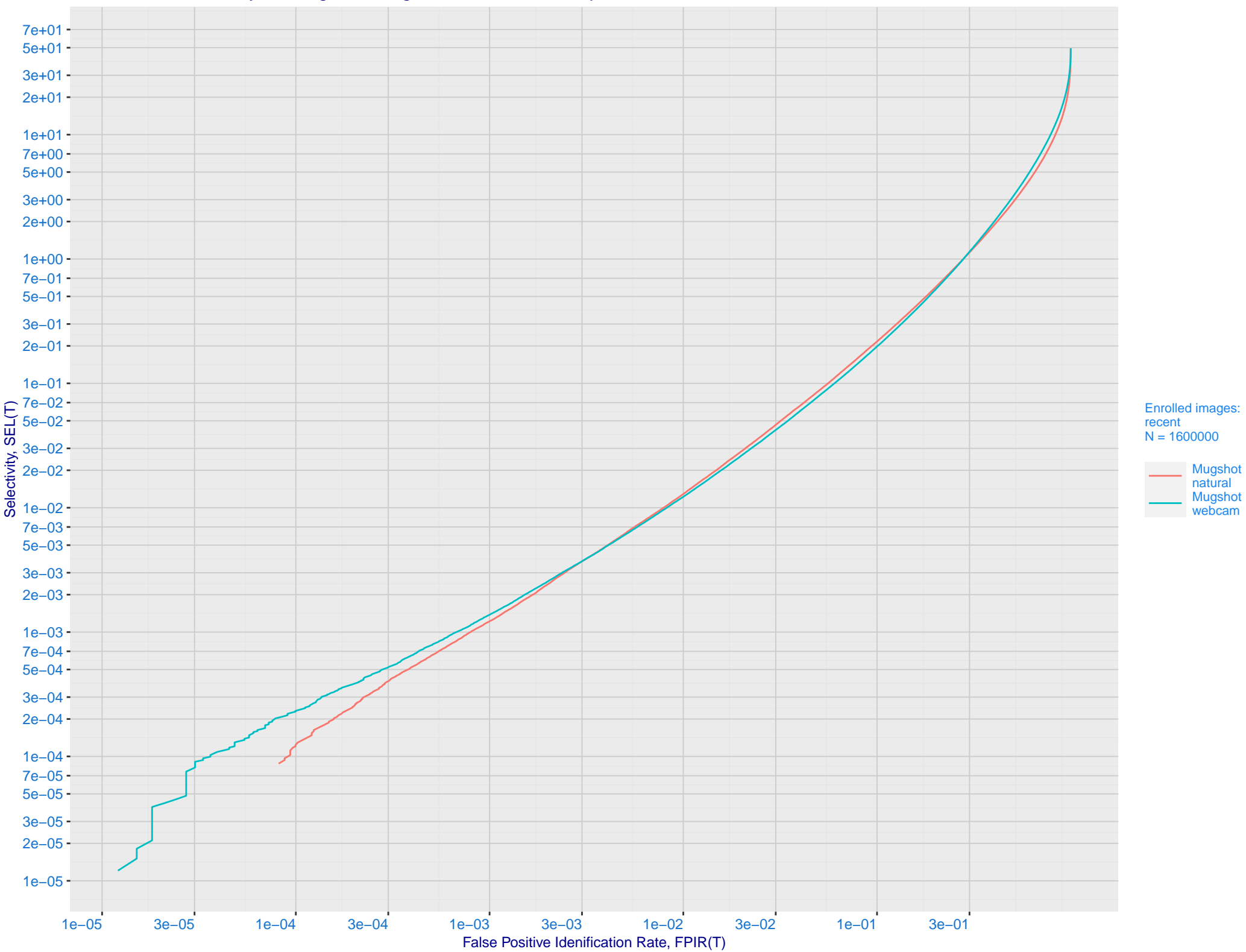
D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



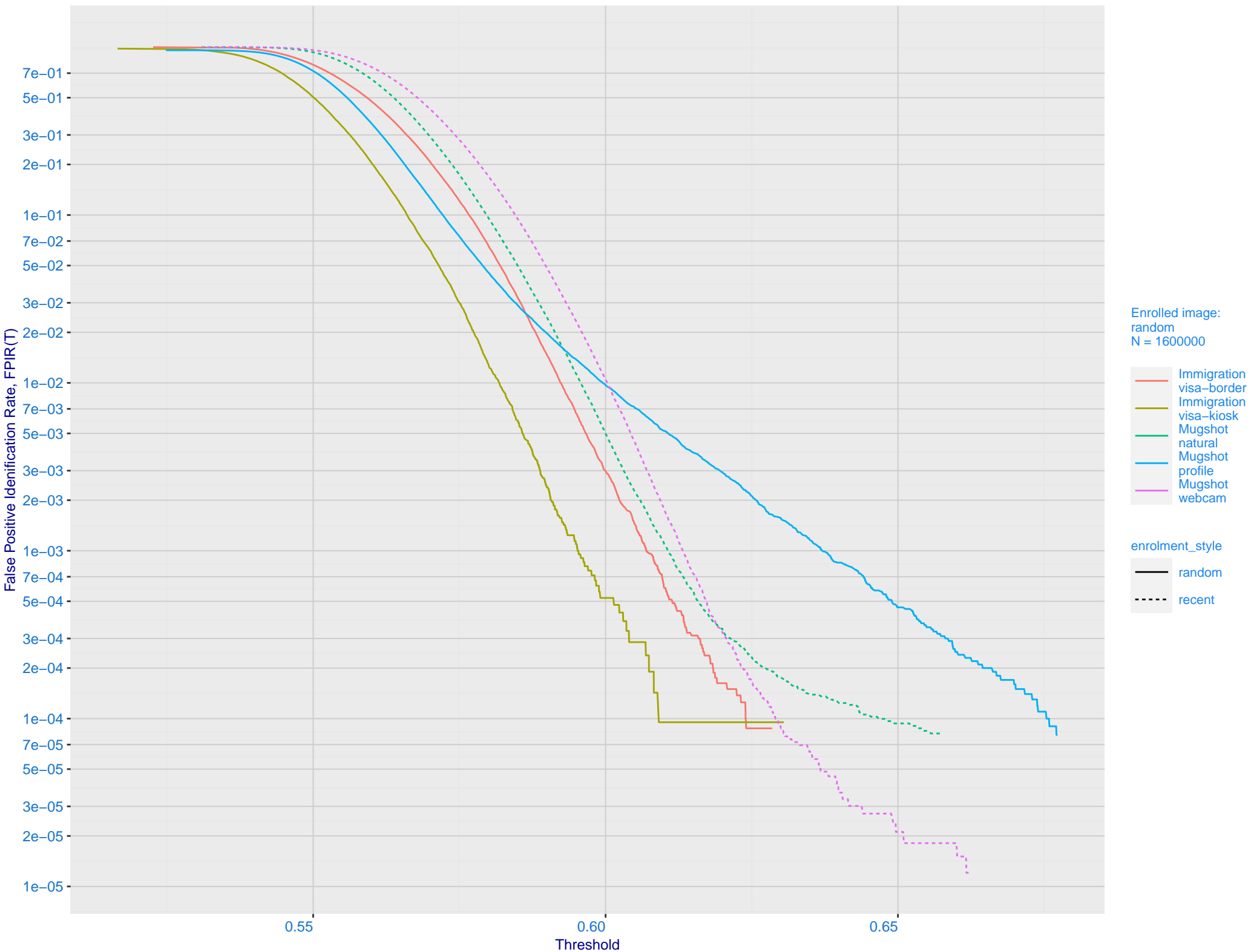
E: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



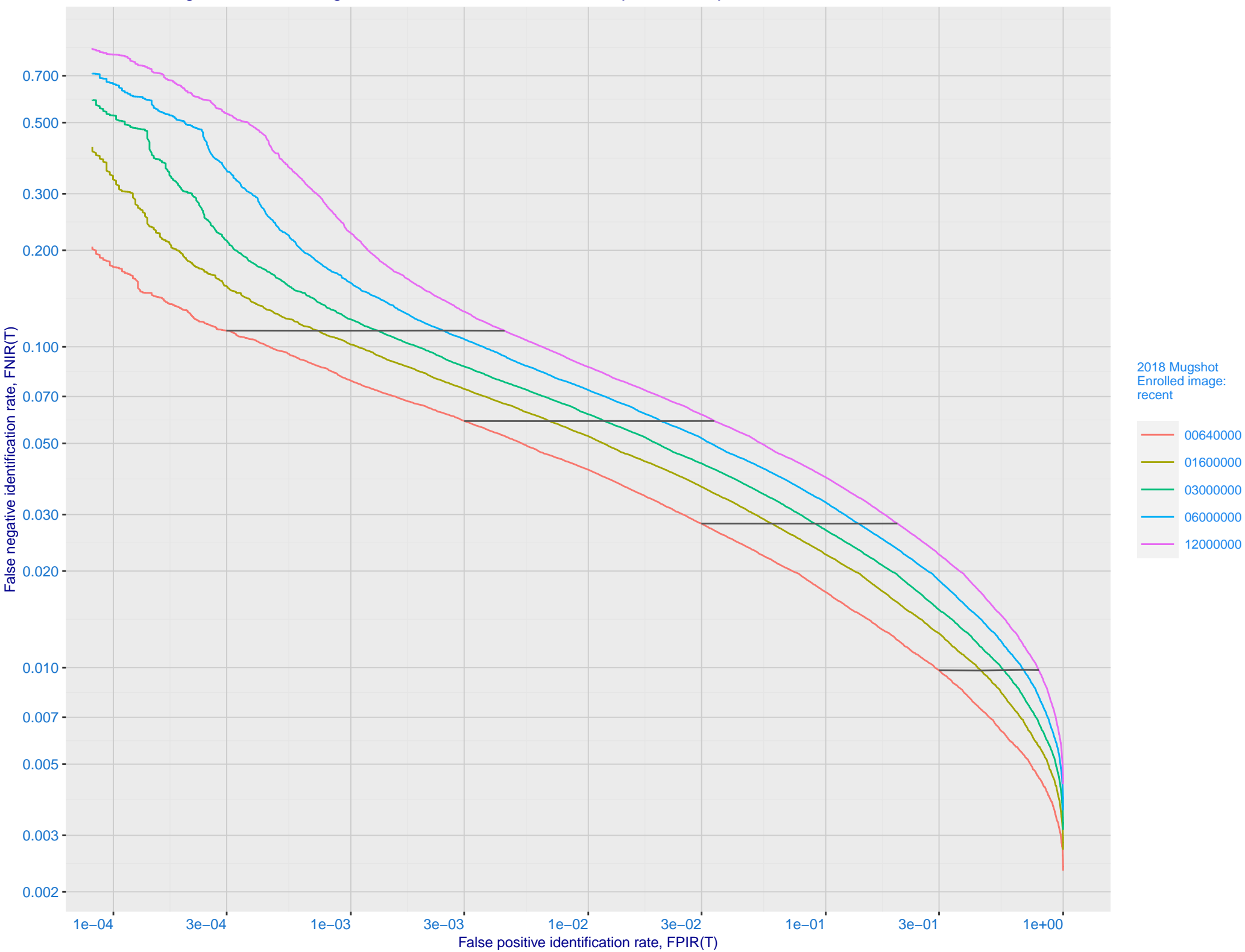
F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



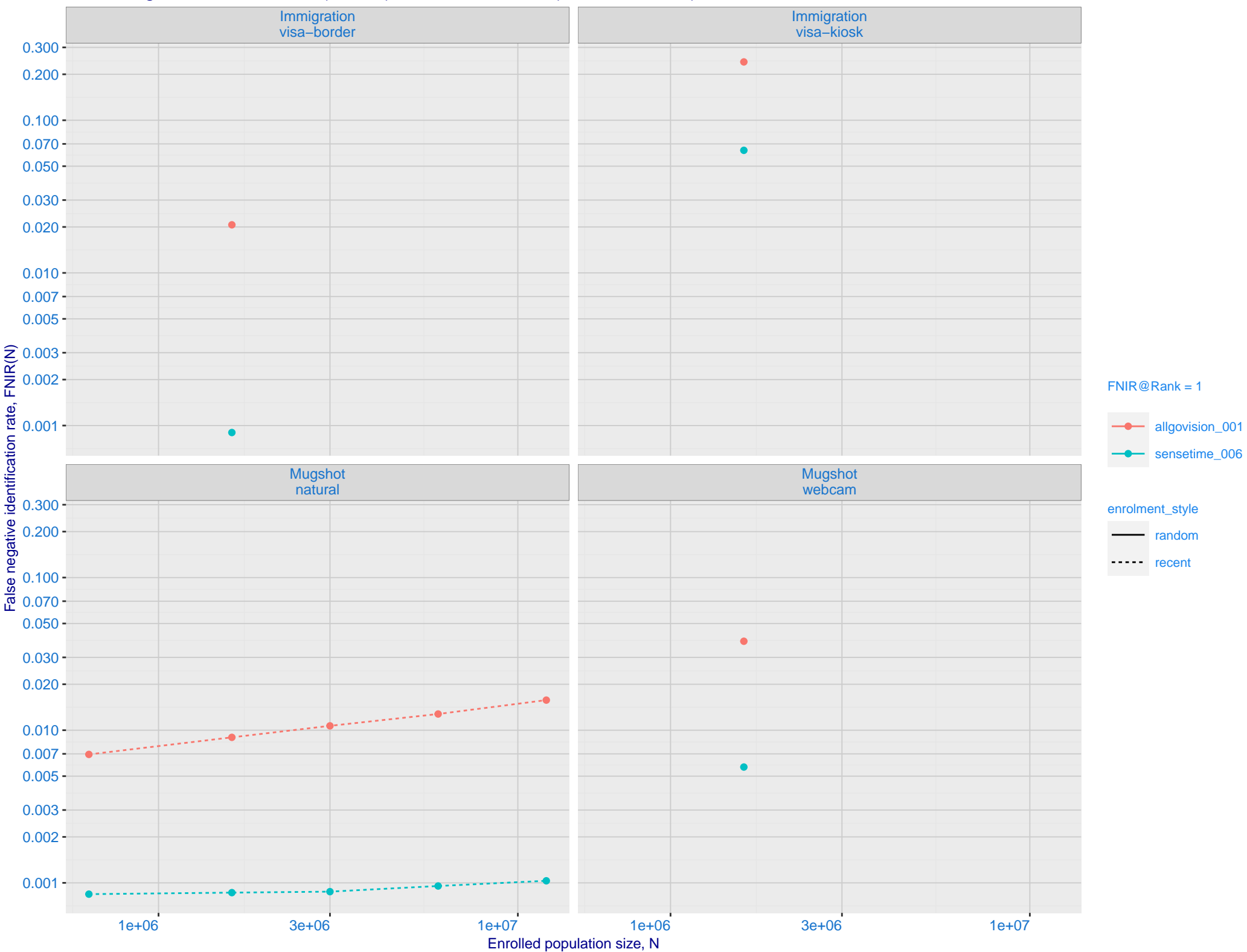
G: FPIR dependence on T by probe type for N = 1600000 subjects



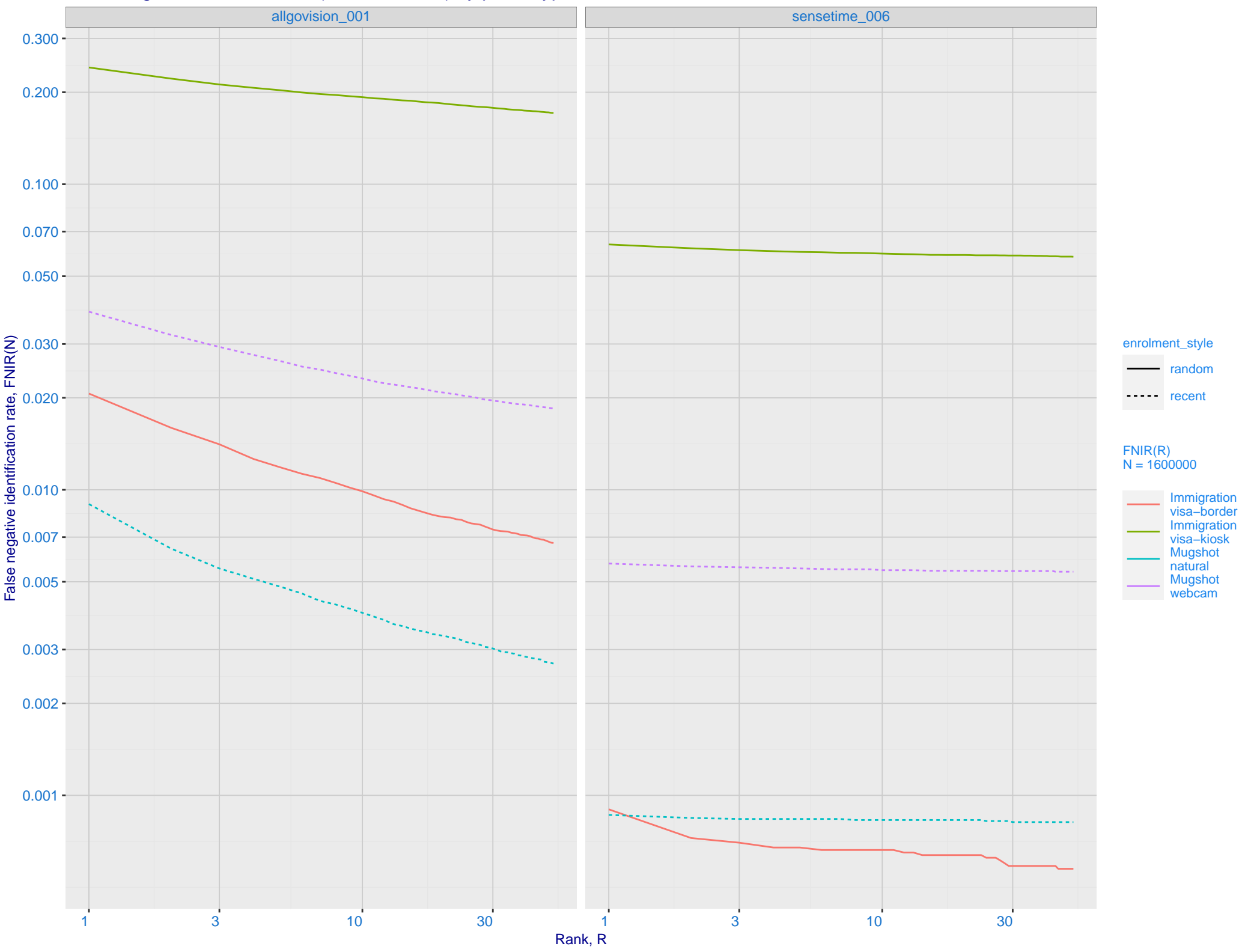
J: DET for Mugshot natural images and various N. Links connect points of equal threshold.



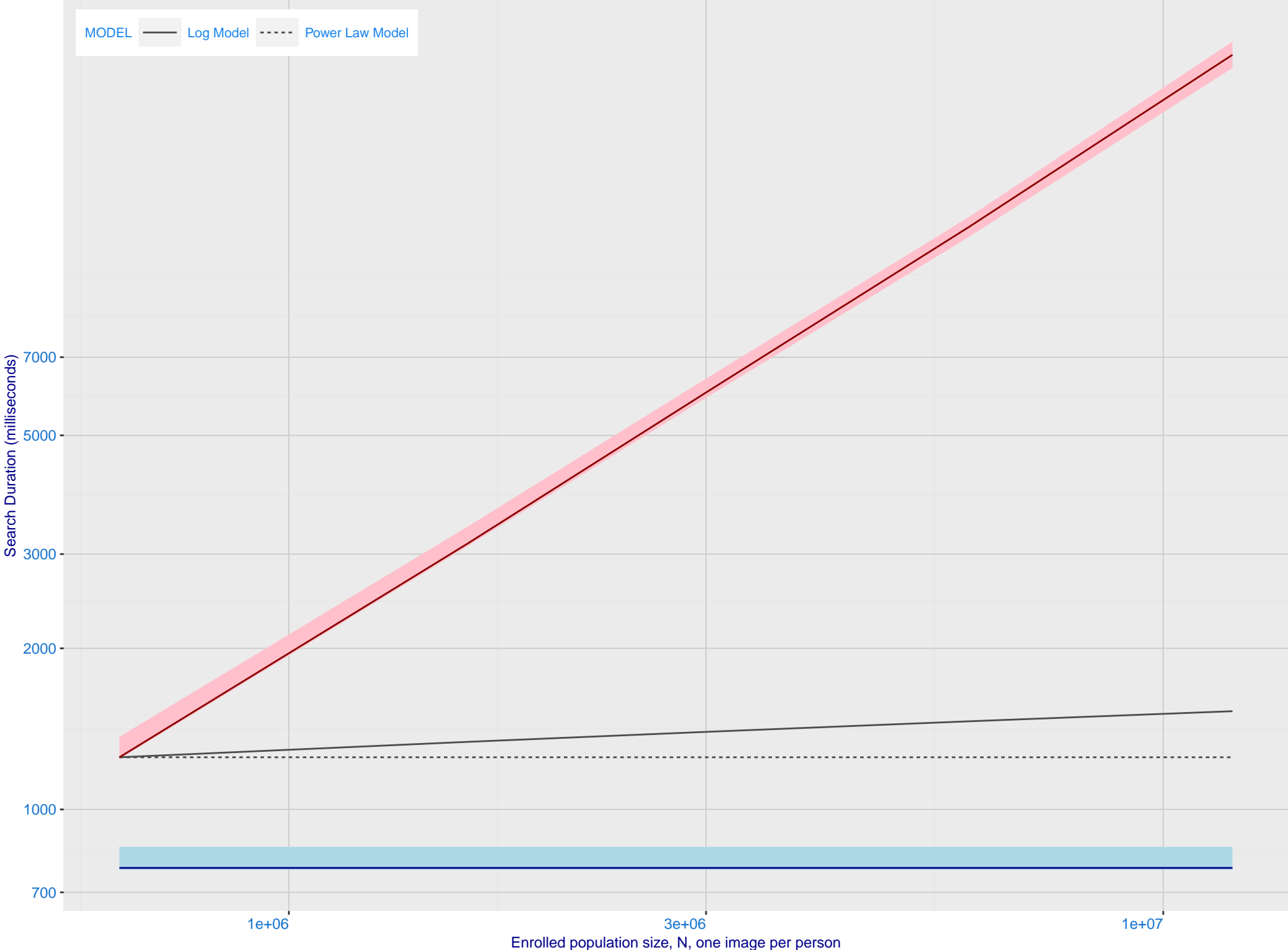
K: Investigational mode: FNIR(N, 1, 0) vs. most accurate (sensetime_006)



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



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

Dataset: 2018 Mugshot N = 3068801

