

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 112 (out of 259) — FNIR(1600000, 0, 1) = 0.0090 vs. lowest 0.0009 from sensetime_005

Mugshot webcam ranking 124 (out of 221) — FNIR(1600000, 0, 1) = 0.0383 vs. lowest 0.0062 from sensetime_005

Mugshot profile ranking 66 (out of 190) — FNIR(1600000, 0, 1) = 0.6609 vs. lowest 0.0591 from sensetime_005

Immigration visa–border ranking 69 (out of 142) — FNIR(1600000, 0, 1) = 0.0206 vs. lowest 0.0014 from visionlabs_009

Immigration visa–kiosk ranking 83 (out of 139) — FNIR(1600000, 0, 1) = 0.2411 vs. lowest 0.0694 from cib_000

Identification:

Frontal mugshot ranking 129 (out of 259) — FNIR(1600000, T, L+1) = 0.1016, FPIR=0.001000 vs. lowest 0.0018 from sensetime_004

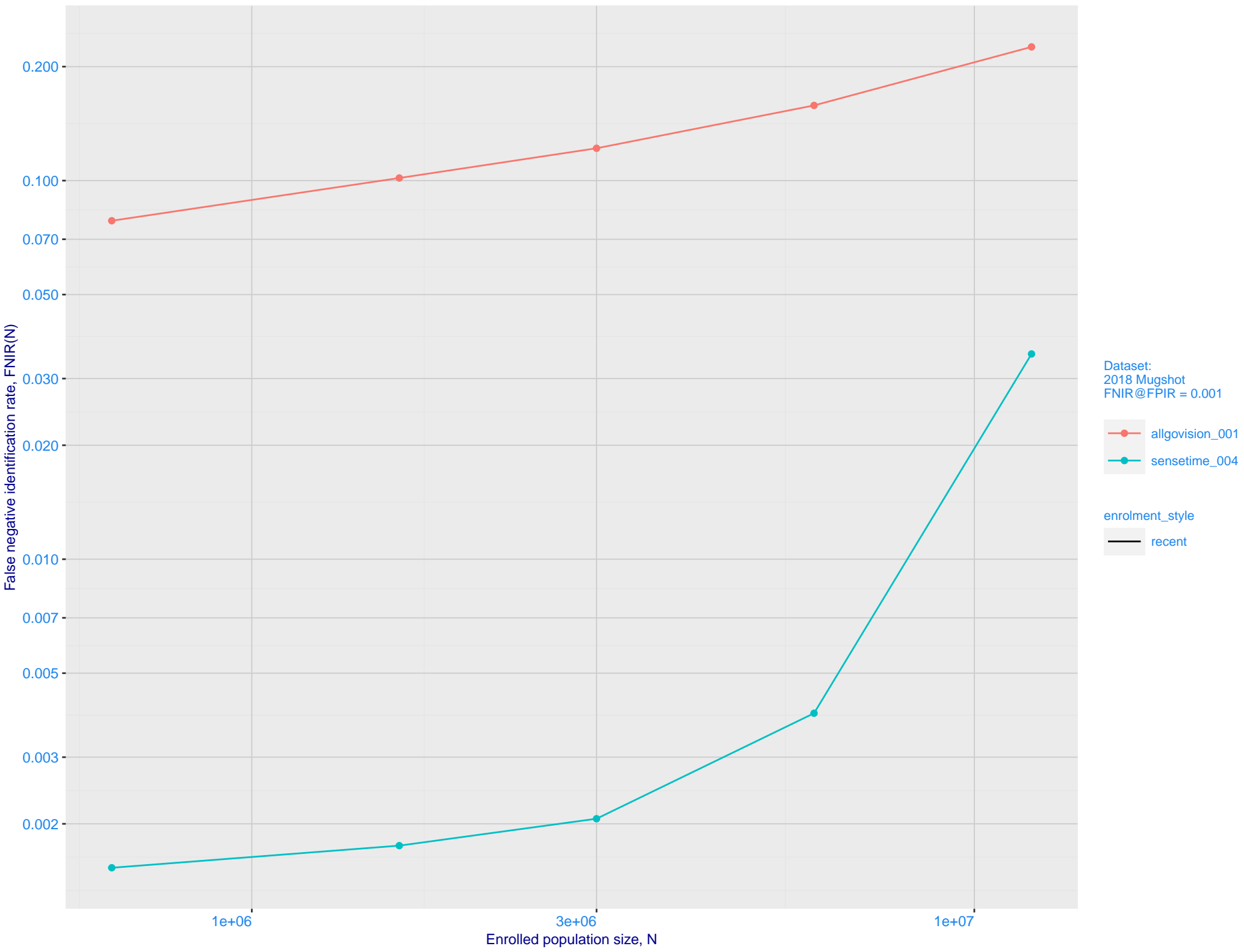
Mugshot webcam ranking 127 (out of 219) — FNIR(1600000, T, L+1) = 0.2204, FPIR=0.001000 vs. lowest 0.0122 from sensetime_003

Mugshot profile ranking 66 (out of 189) — FNIR(1600000, T, L+1) = 0.9857, FPIR=0.001000 vs. lowest 0.1733 from sensetime_005

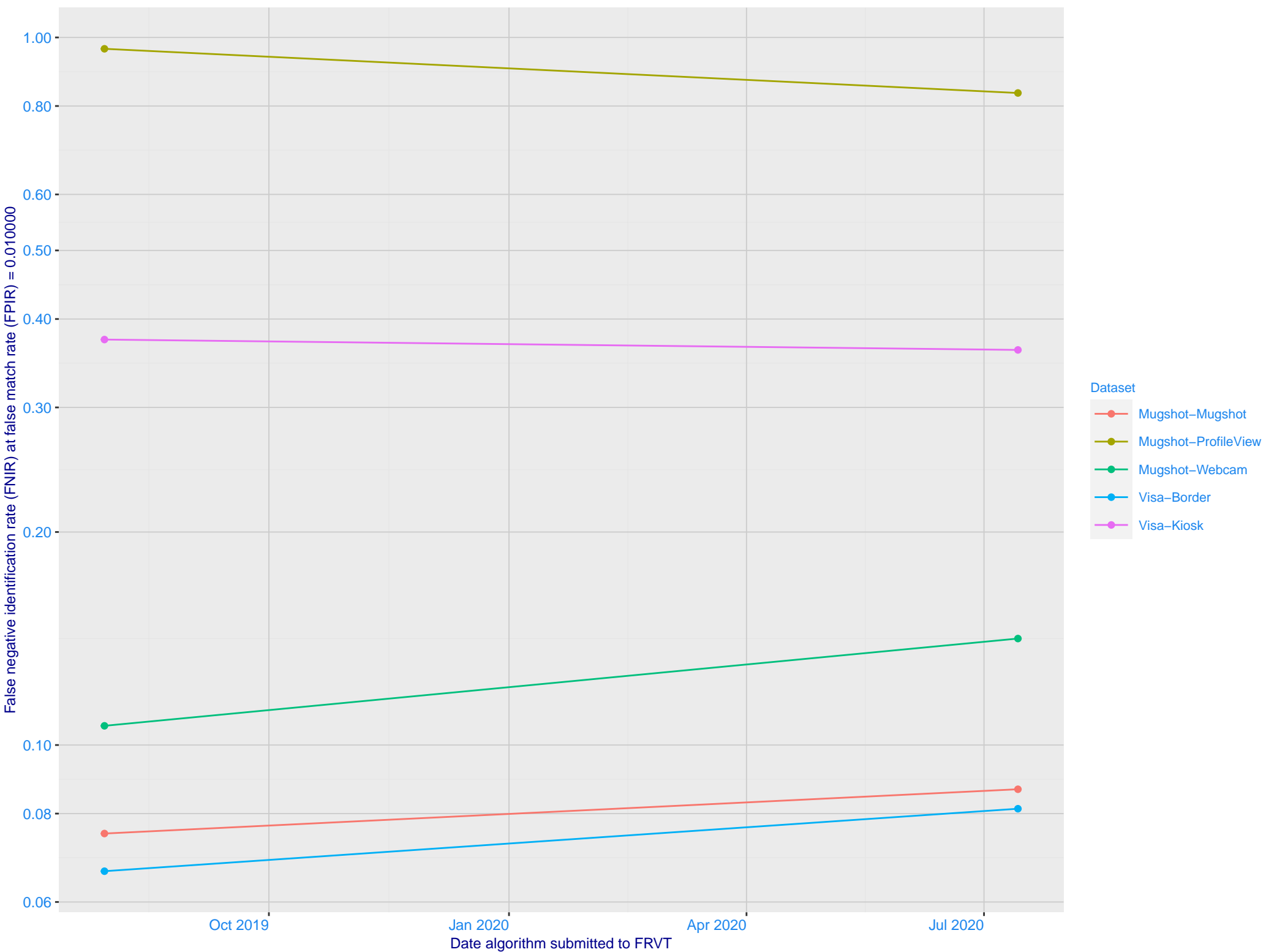
Immigration visa–border ranking 72 (out of 139) — FNIR(1600000, T, L+1) = 0.1503, FPIR=0.001000 vs. lowest 0.0059 from sensetime_004

Immigration visa–kiosk ranking 56 (out of 134) — FNIR(1600000, T, L+1) = 0.4926, FPIR=0.001000 vs. lowest 0.1048 from sensetime_005

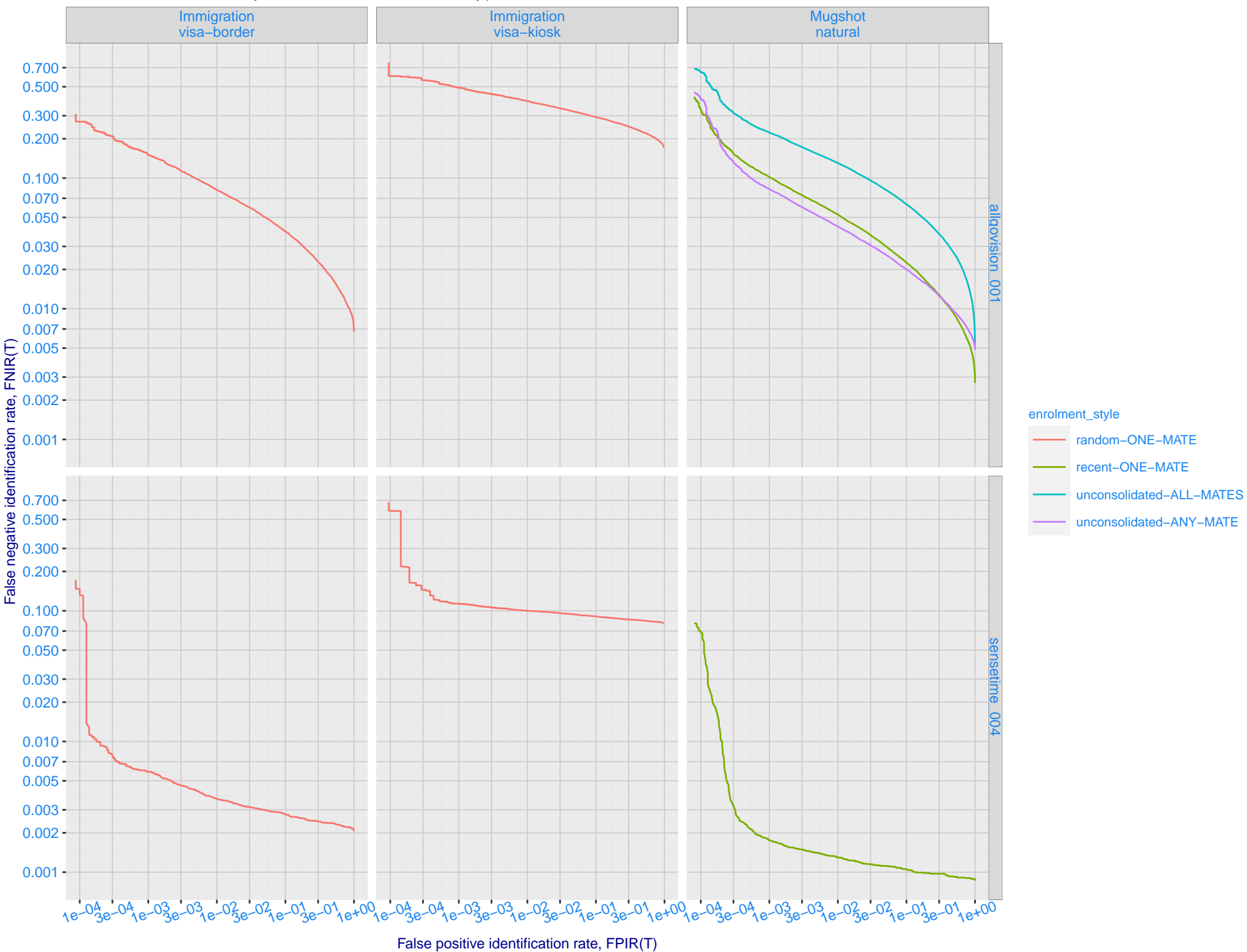
B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime_004)



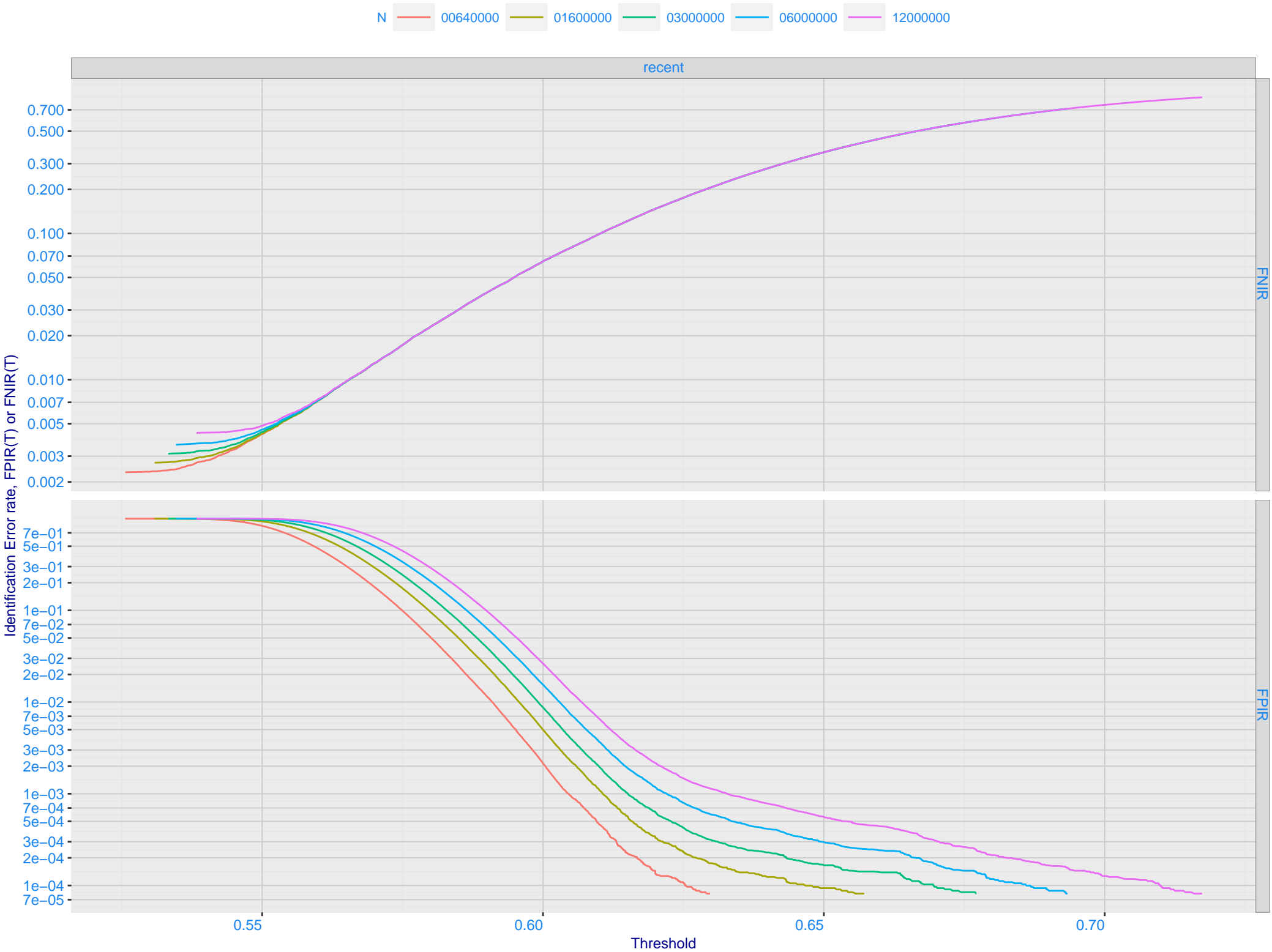
C: Evolution of accuracy for ALLGOVISION algorithms on three datasets 2018 – present



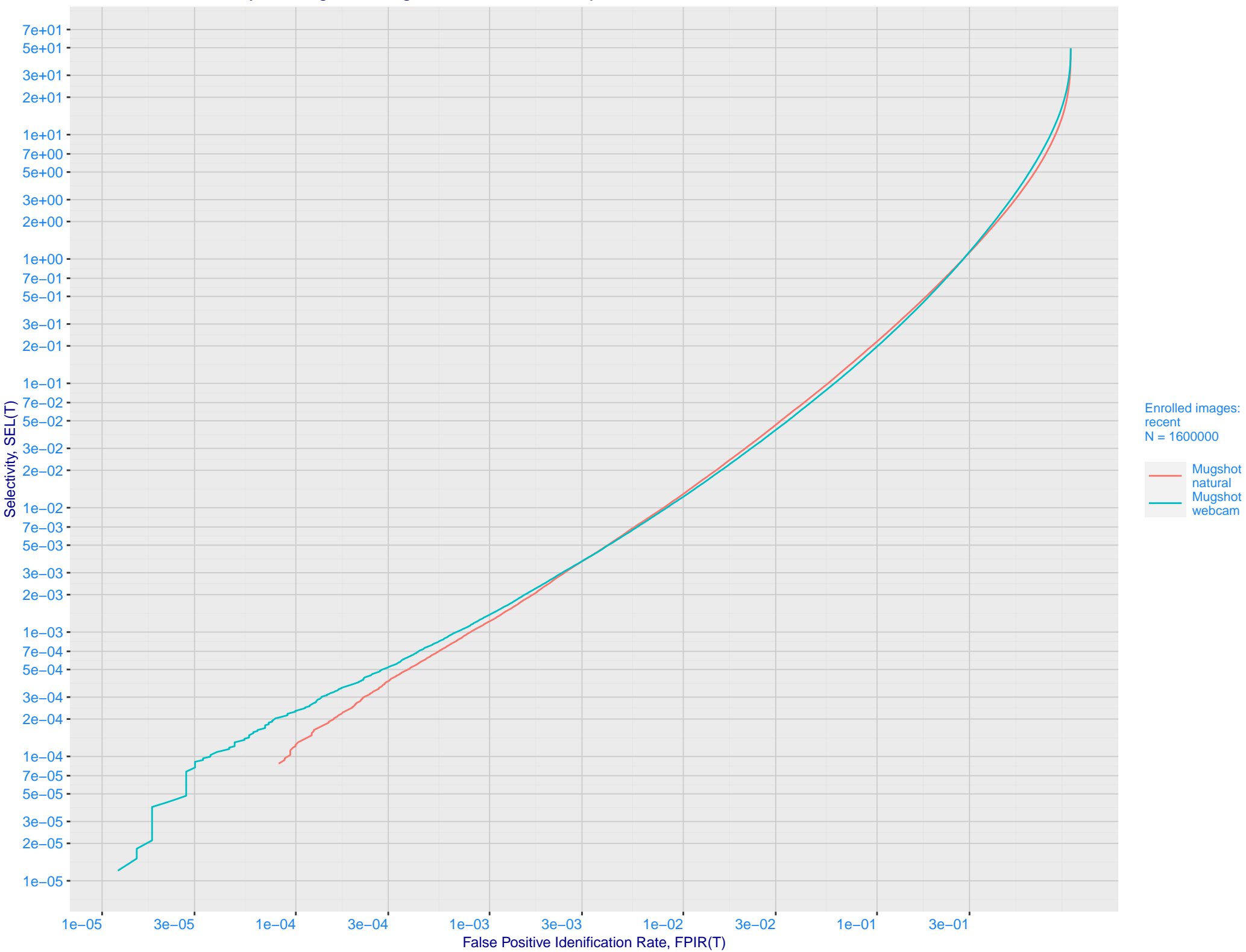
D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



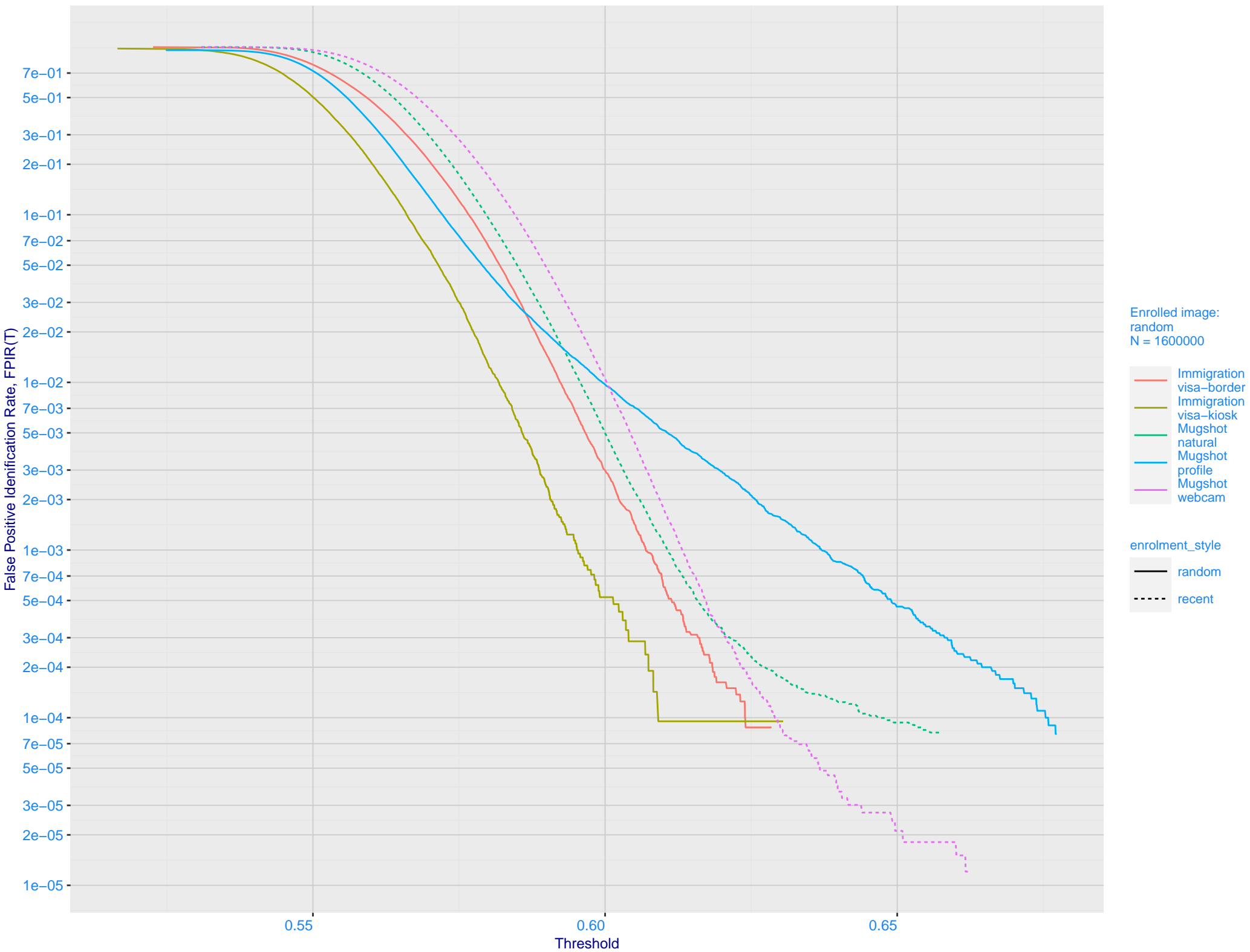
E: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



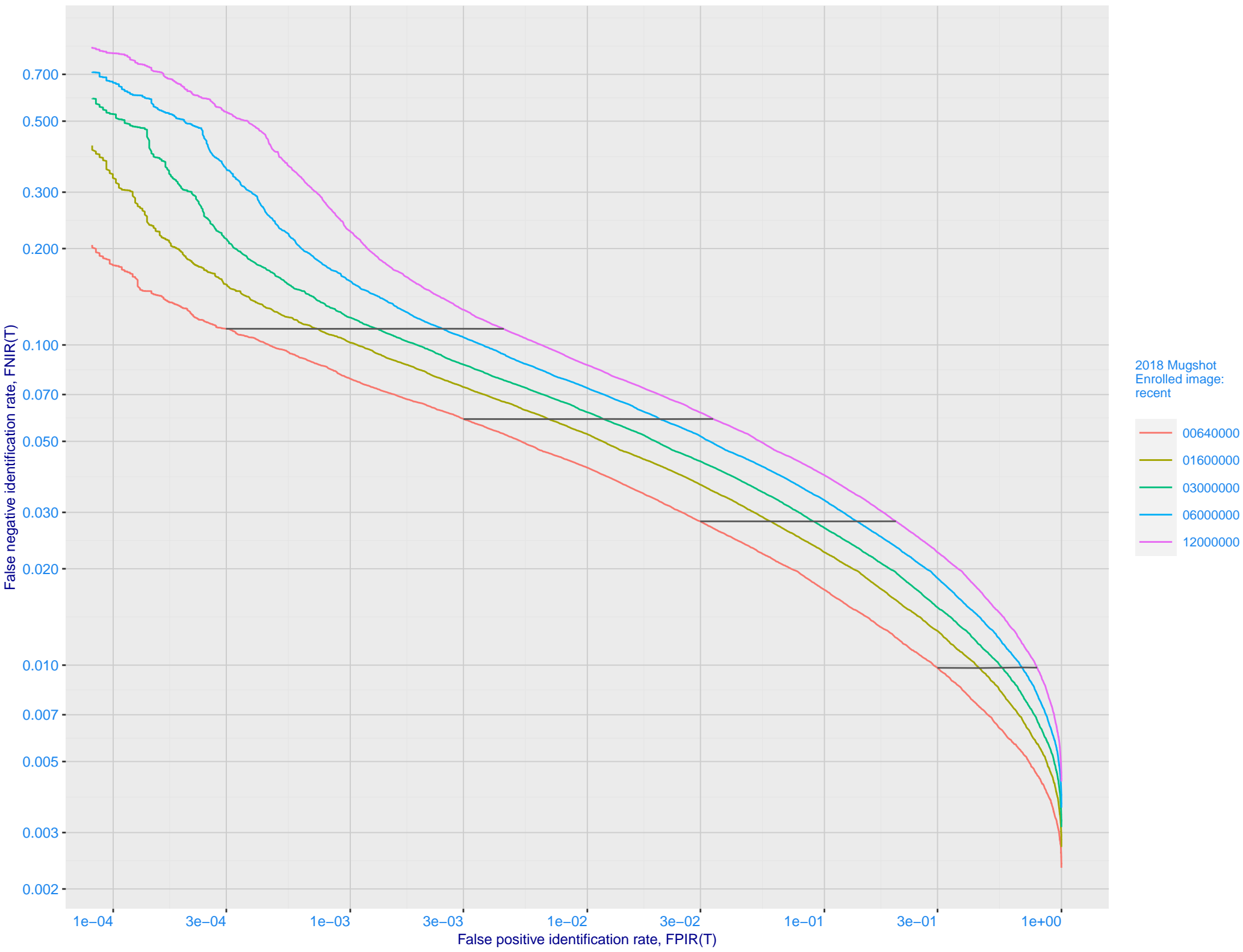
F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



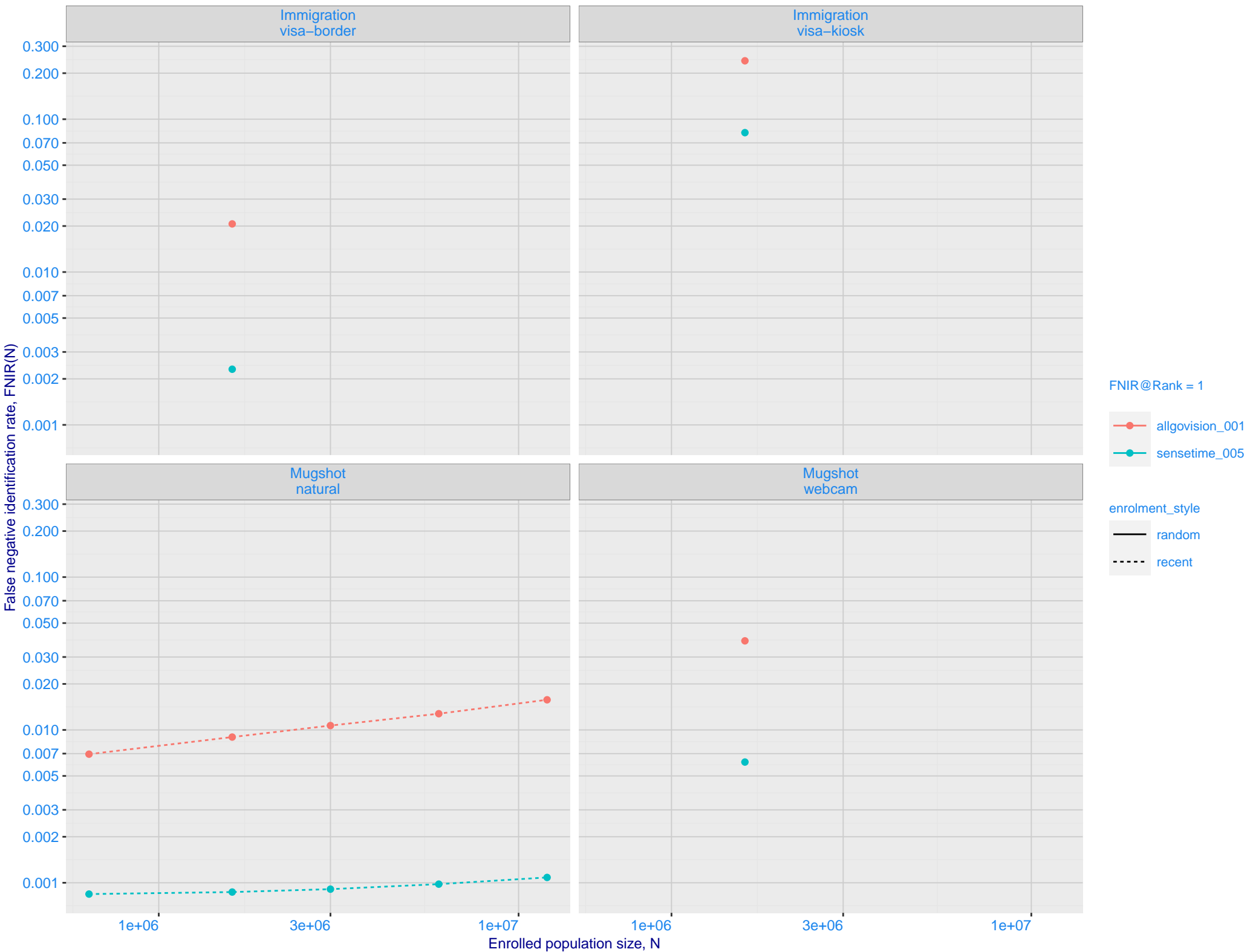
G: FPIR dependence on T by probe type for N = 1600000 subjects



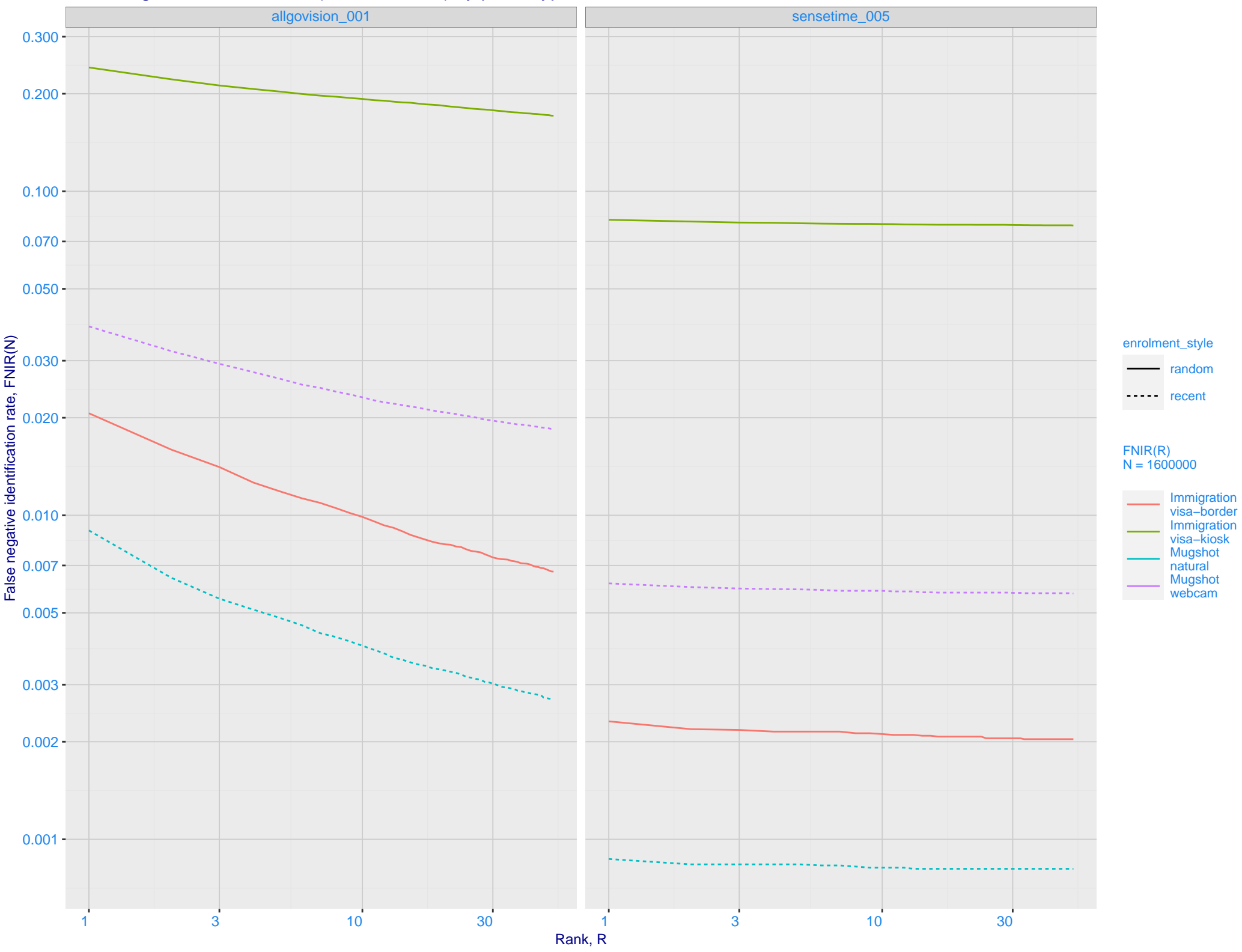
H: DET for Mugshot natural images and various N. Links connect points of equal threshold.



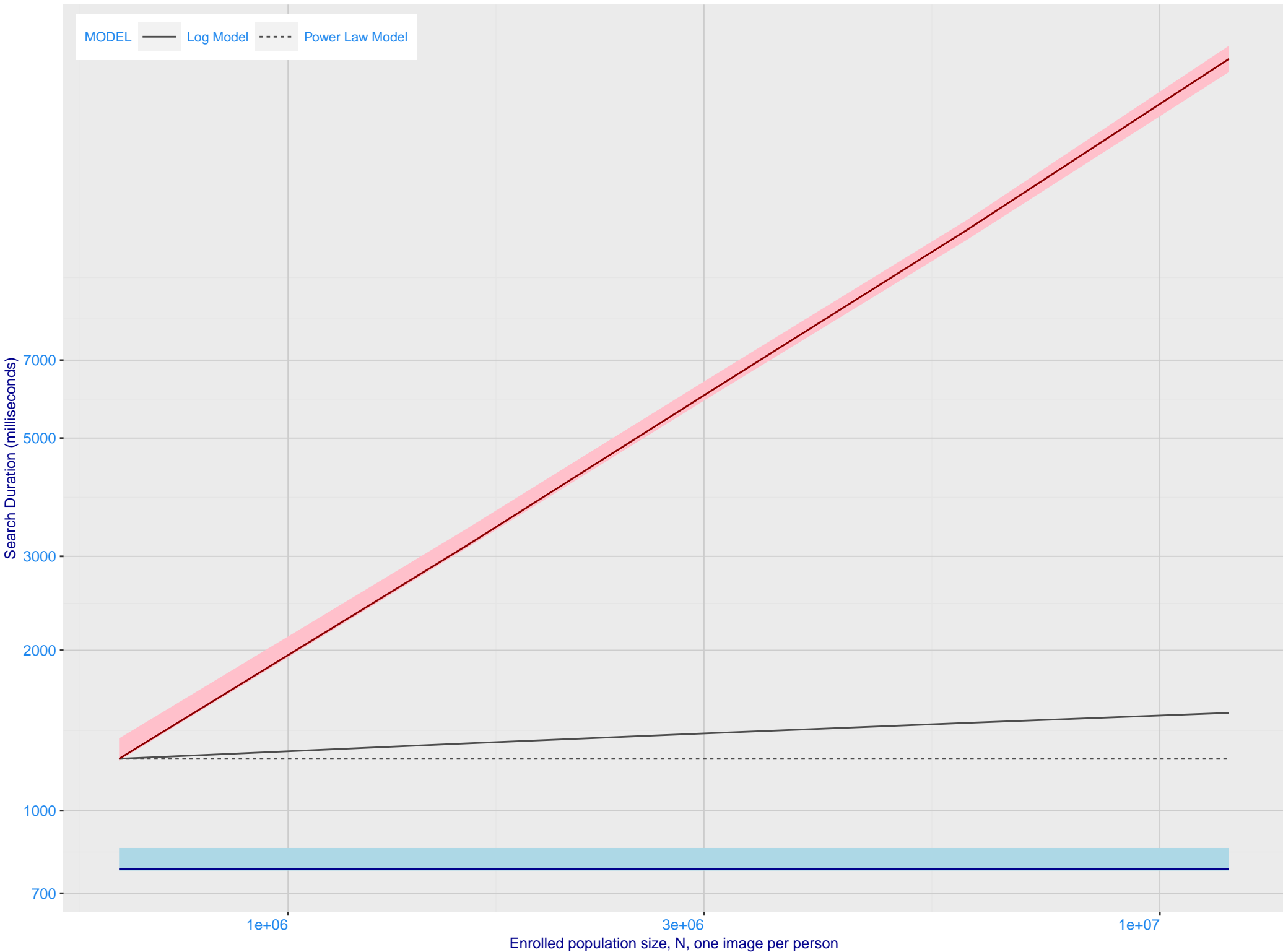
I: Investigational mode: FNIR(N, 1, 0) vs. most accurate (sensetime_005)



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

