

A: Datasheet

Algorithm: allgovision\_000

Developer: AllGoVision

Submission Date: 2019\_07\_30

Template size: 2048 bytes

Template time (2.5 percentile): 381 msec

Template time (median): 405 msec

Template time (97.5 percentile): 631 msec

Investigation:

Frontal mugshot ranking 149 (out of 279) — FNIR(1600000, 0, 1) = 0.0114 vs. lowest 0.0009 from sensetime\_005

Mugshot webcam ranking 127 (out of 241) — FNIR(1600000, 0, 1) = 0.0332 vs. lowest 0.0062 from sensetime\_005

Mugshot profile ranking 125 (out of 210) — FNIR(1600000, 0, 1) = 0.8938 vs. lowest 0.0587 from xforwardai\_002

Immigration visa–border ranking 90 (out of 168) — FNIR(1600000, 0, 1) = 0.0208 vs. lowest 0.0013 from visionlabs\_010

Immigration visa–kiosk ranking 113 (out of 165) — FNIR(1600000, 0, 1) = 0.2817 vs. lowest 0.0568 from cloudwalk\_hr\_000

Identification:

Frontal mugshot ranking 138 (out of 279) — FNIR(1600000, T, L+1) = 0.0878, FPIR=0.001000 vs. lowest 0.0018 from sensetime\_004

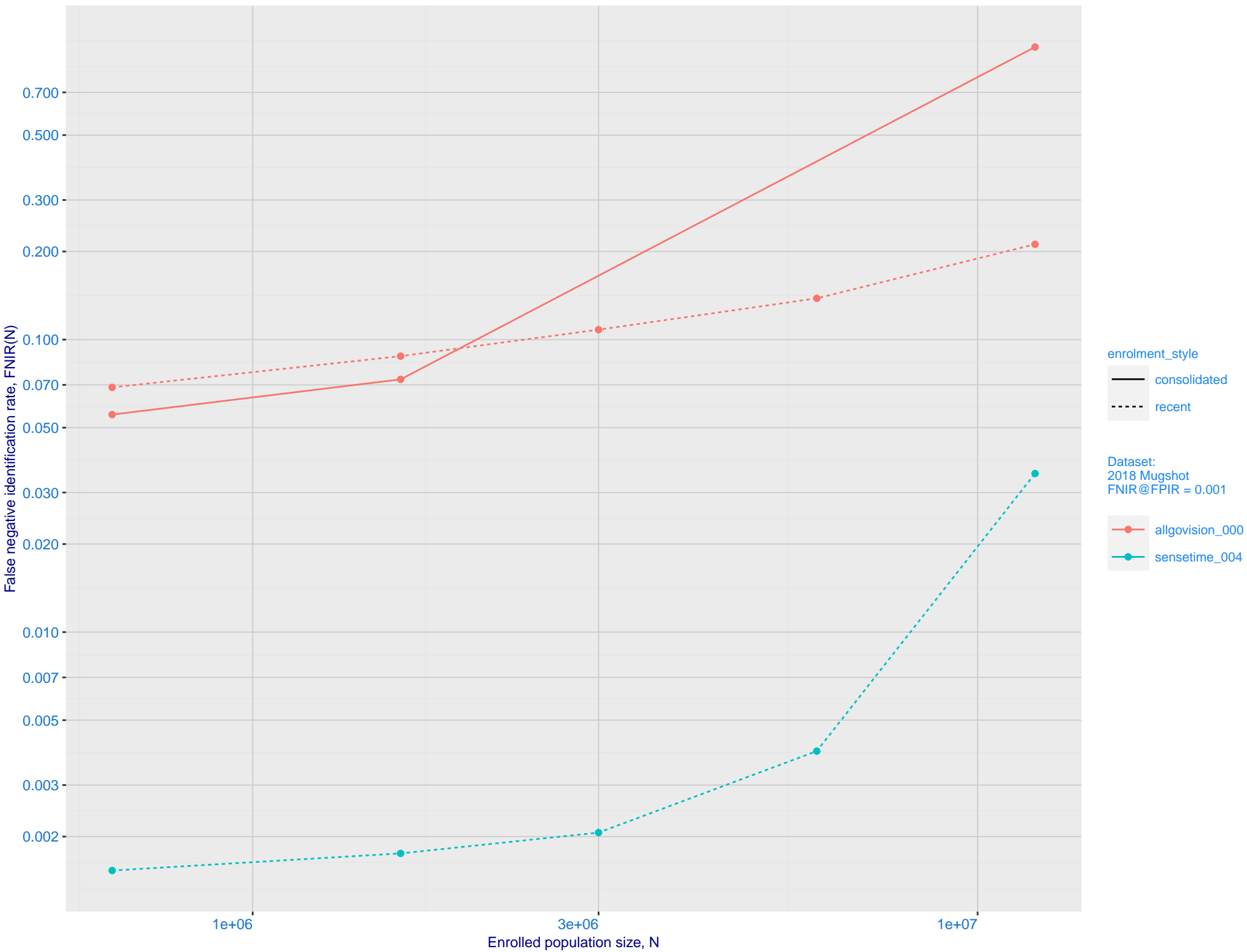
Mugshot webcam ranking 128 (out of 236) — FNIR(1600000, T, L+1) = 0.1659, FPIR=0.001000 vs. lowest 0.0122 from sensetime\_003

Mugshot profile ranking 87 (out of 209) — FNIR(1600000, T, L+1) = 0.9903, FPIR=0.001000 vs. lowest 0.1331 from cloudwalk\_hr\_000

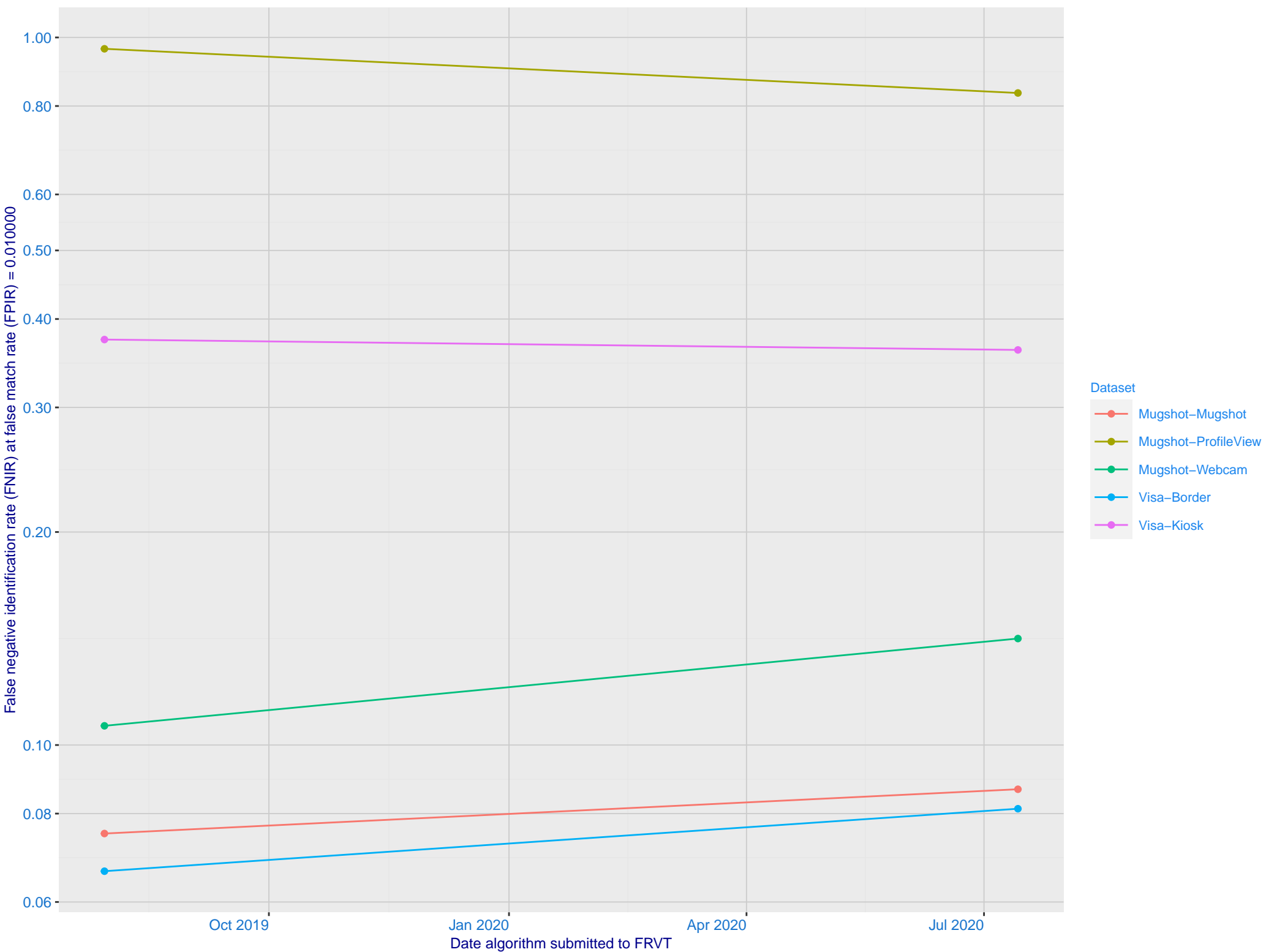
Immigration visa–border ranking 83 (out of 167) — FNIR(1600000, T, L+1) = 0.1178, FPIR=0.001000 vs. lowest 0.0047 from idemia\_008

Immigration visa–kiosk ranking 77 (out of 162) — FNIR(1600000, T, L+1) = 0.5268, FPIR=0.001000 vs. lowest 0.0996 from cloudwalk\_hr\_000

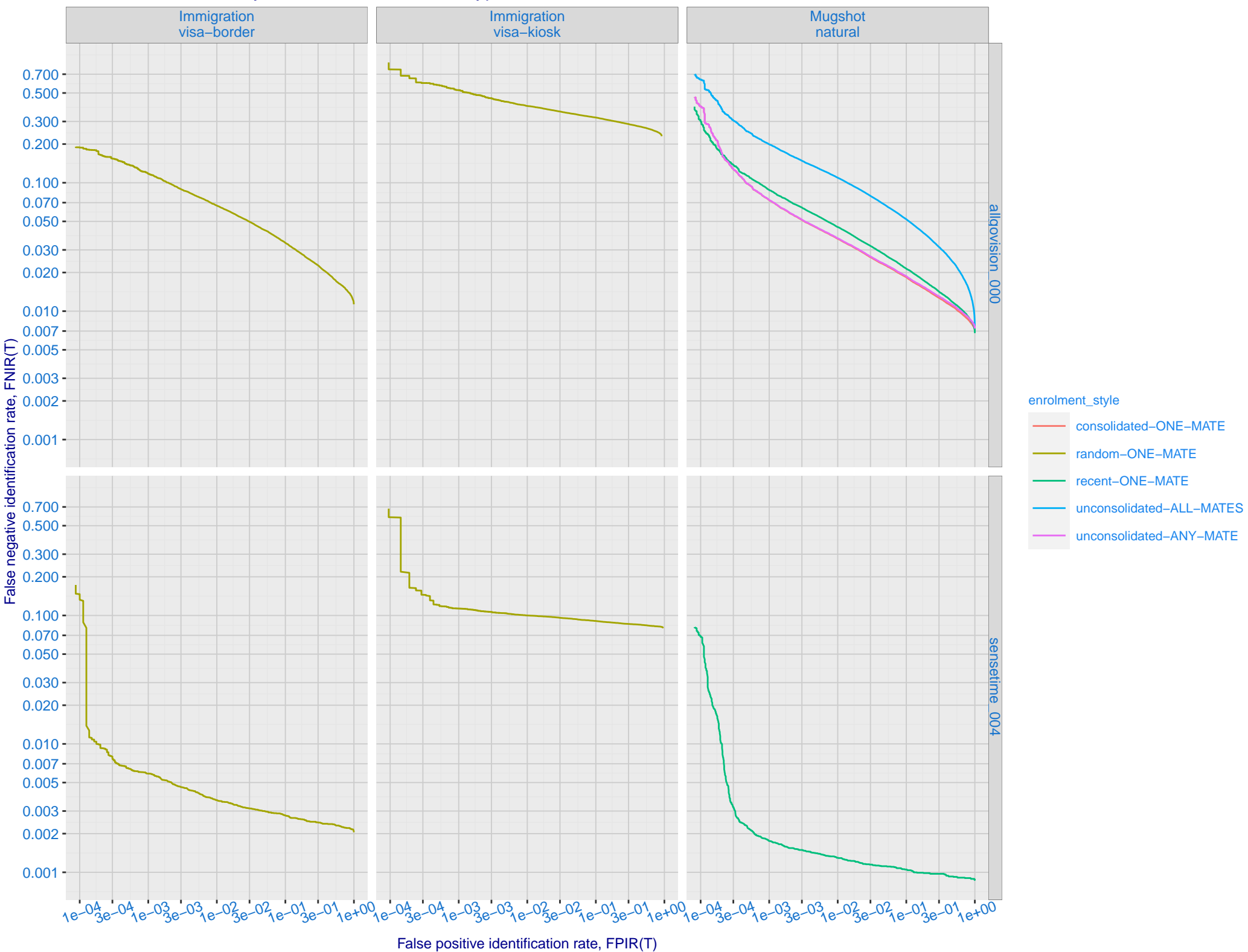
B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime\_004)



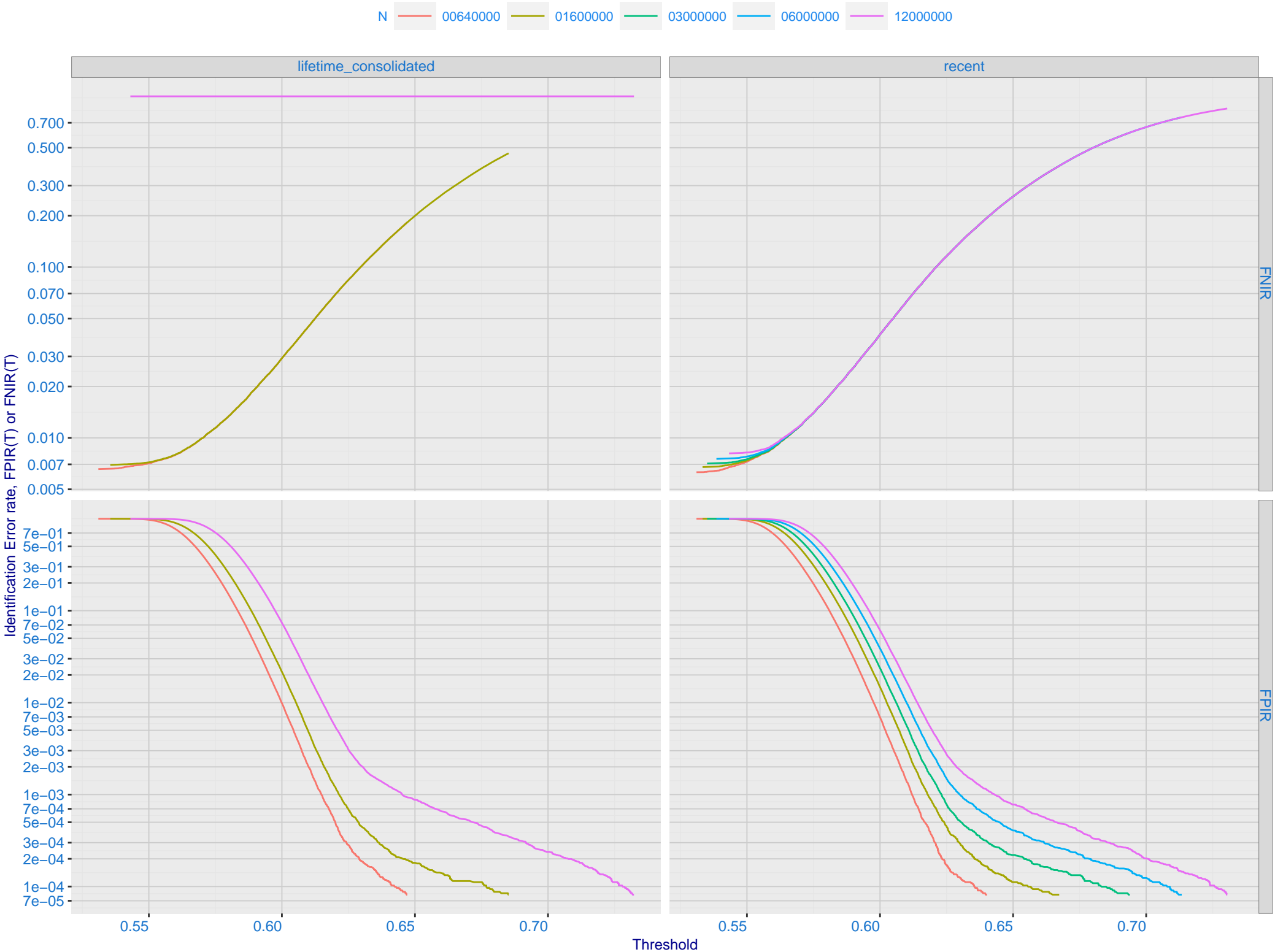
C: Evolution of accuracy for ALLGOVISION algorithms on three datasets 2018 – present



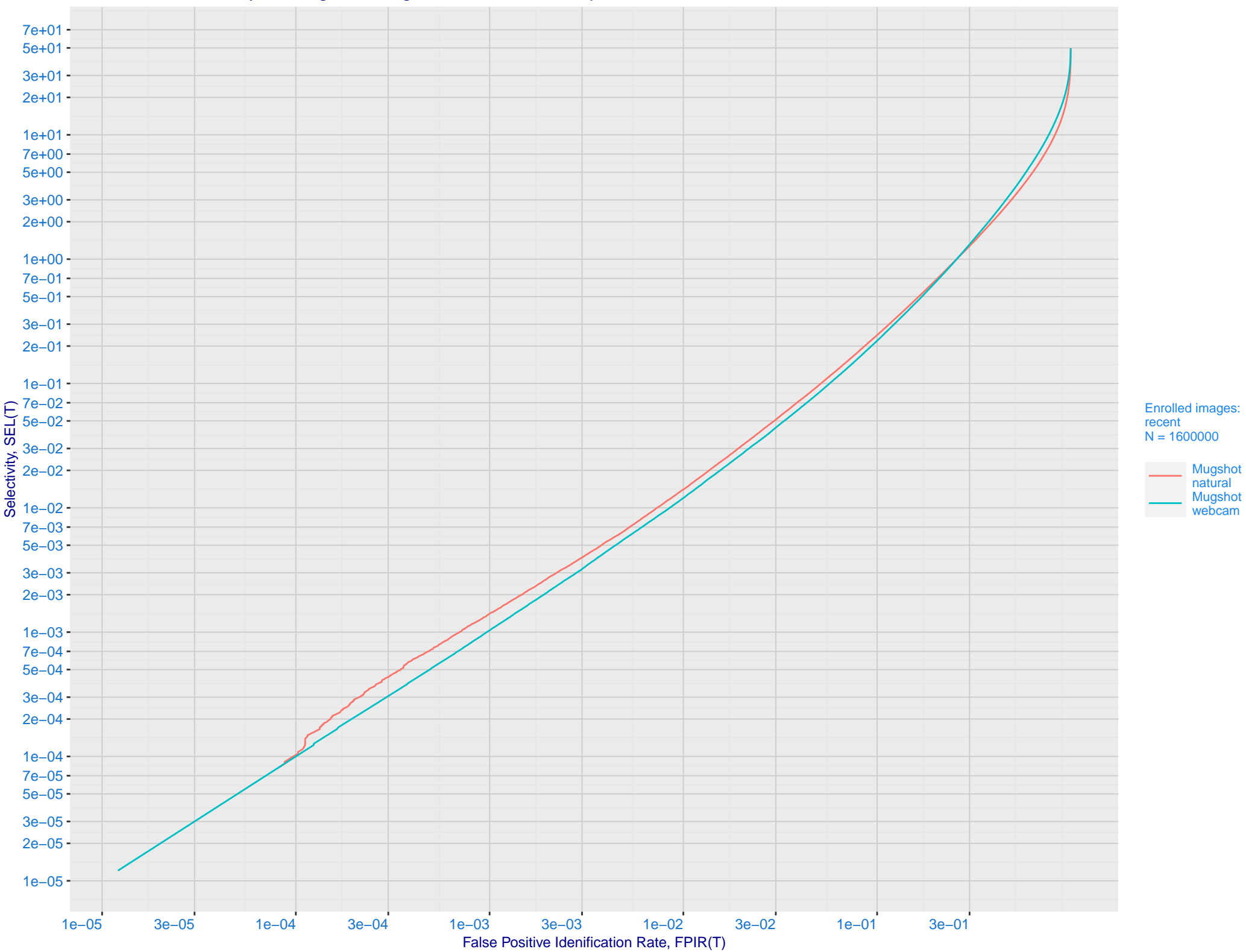
D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



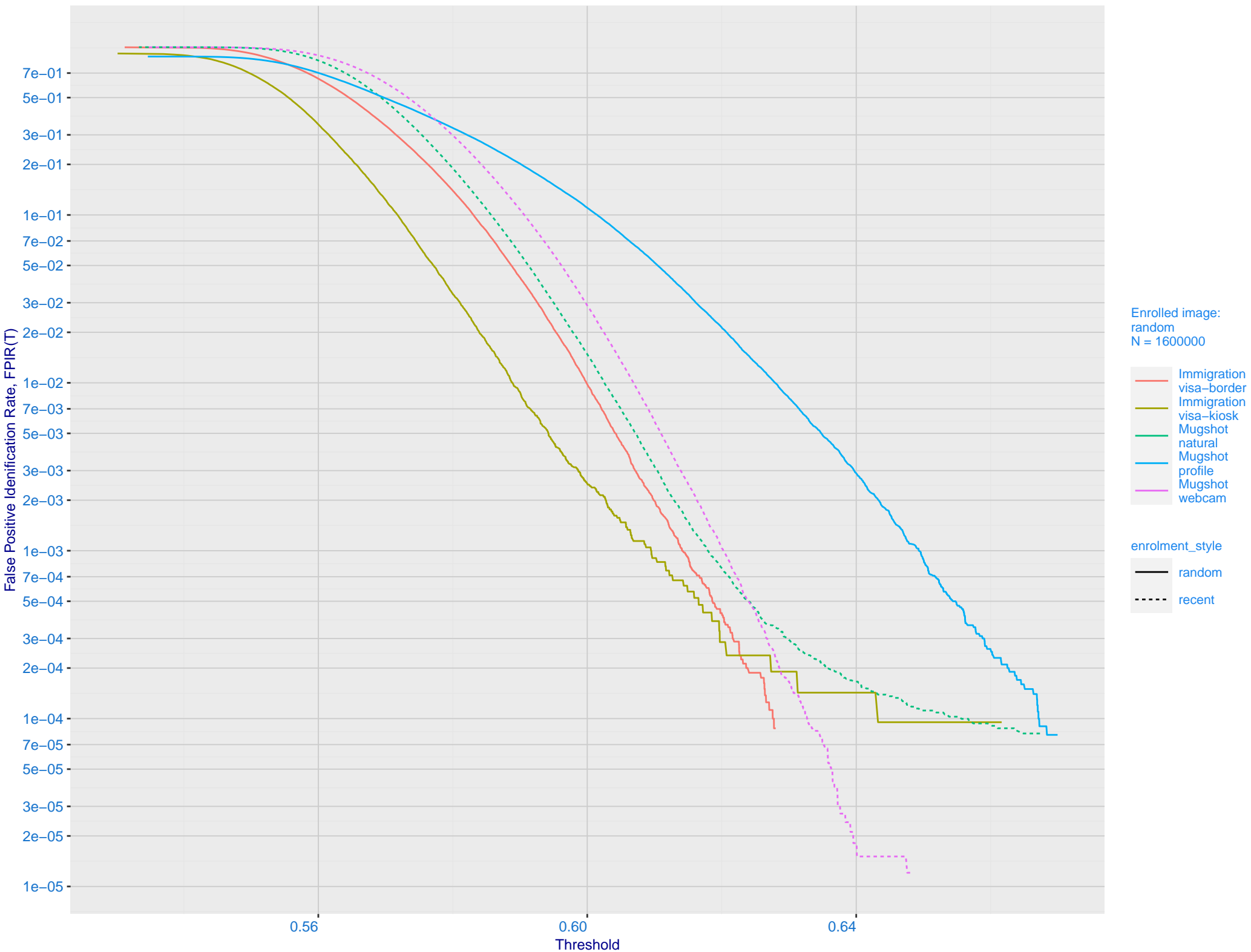
E: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



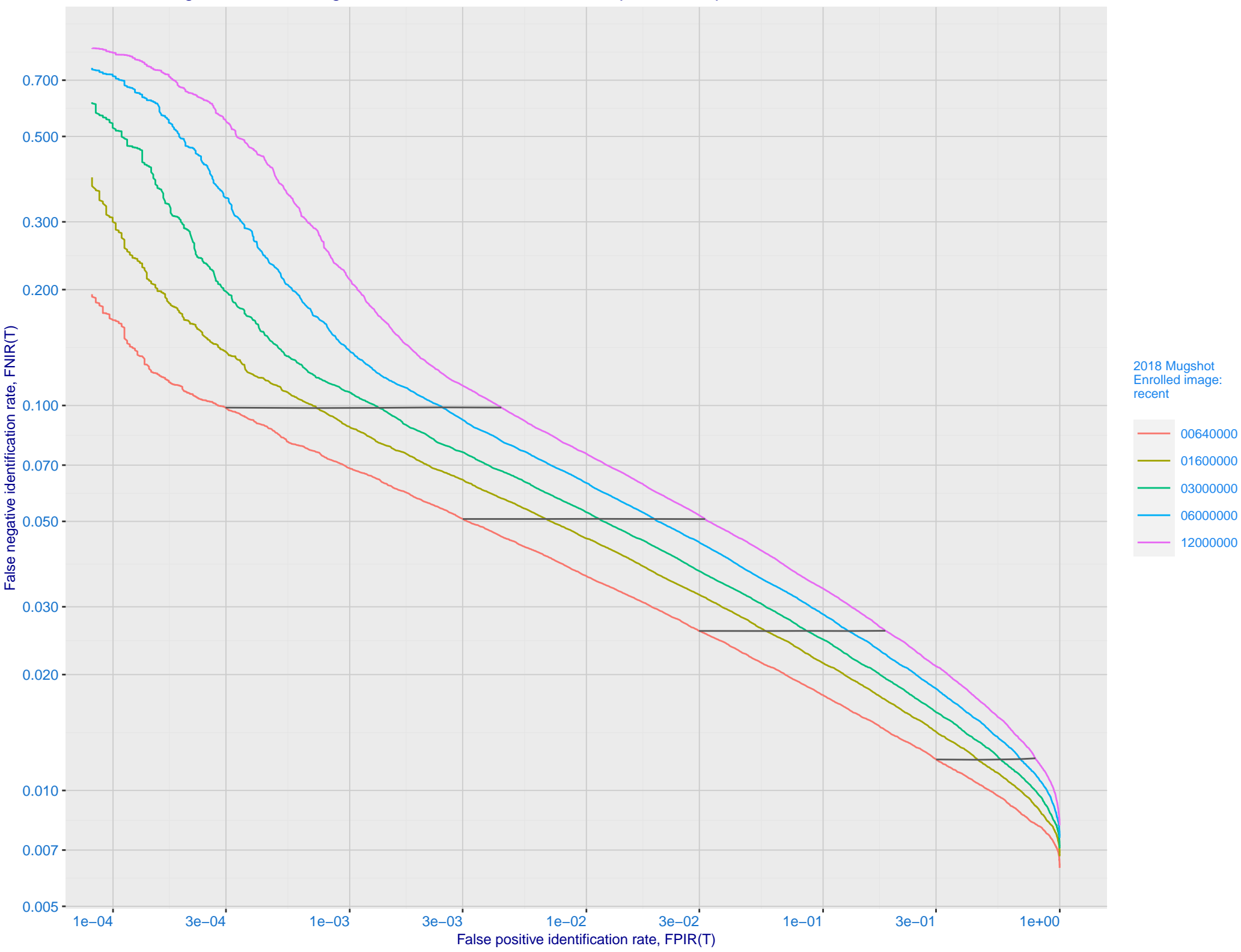
F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



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

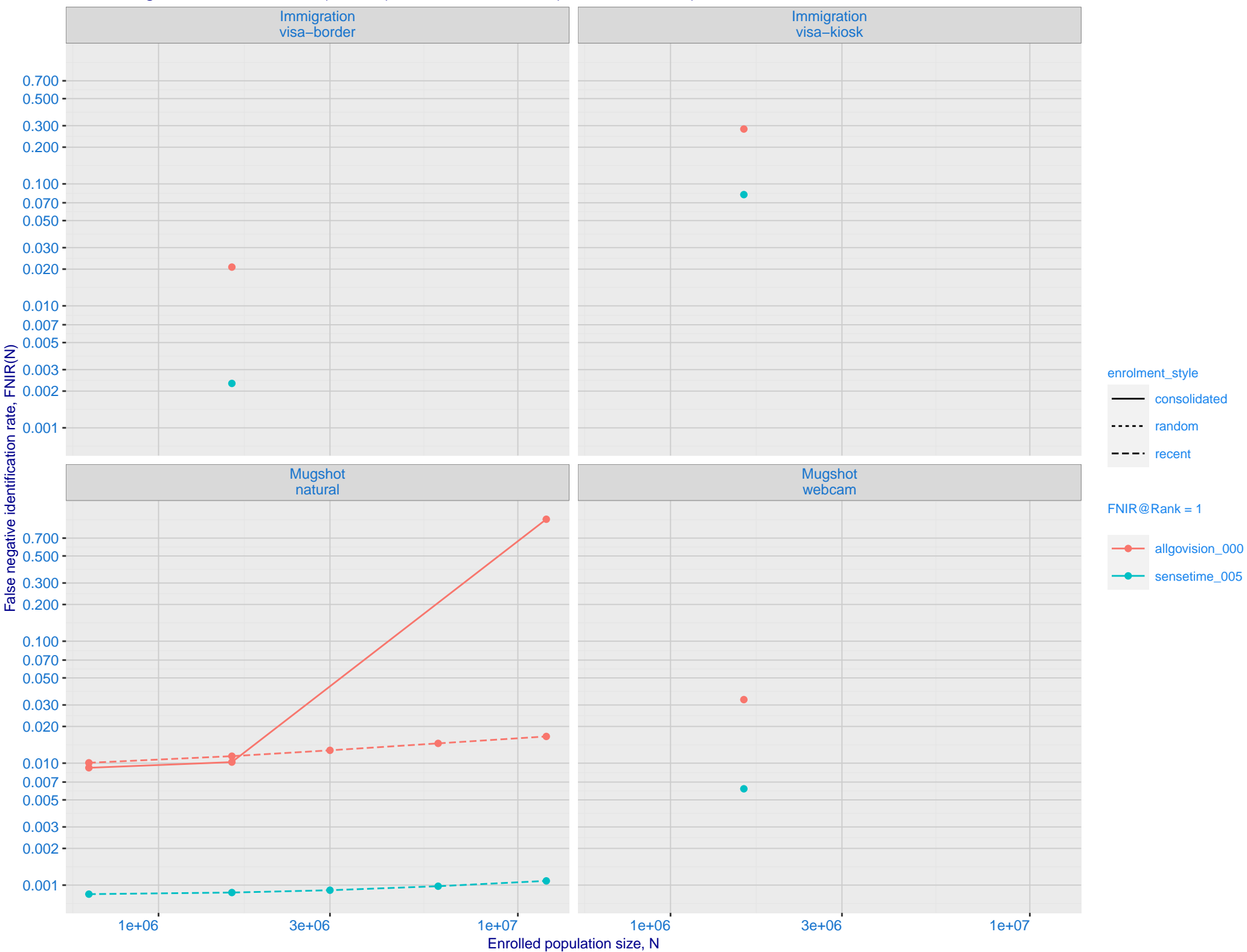


J: DET for Mugshot natural images and various N. Links connect points of equal threshold.

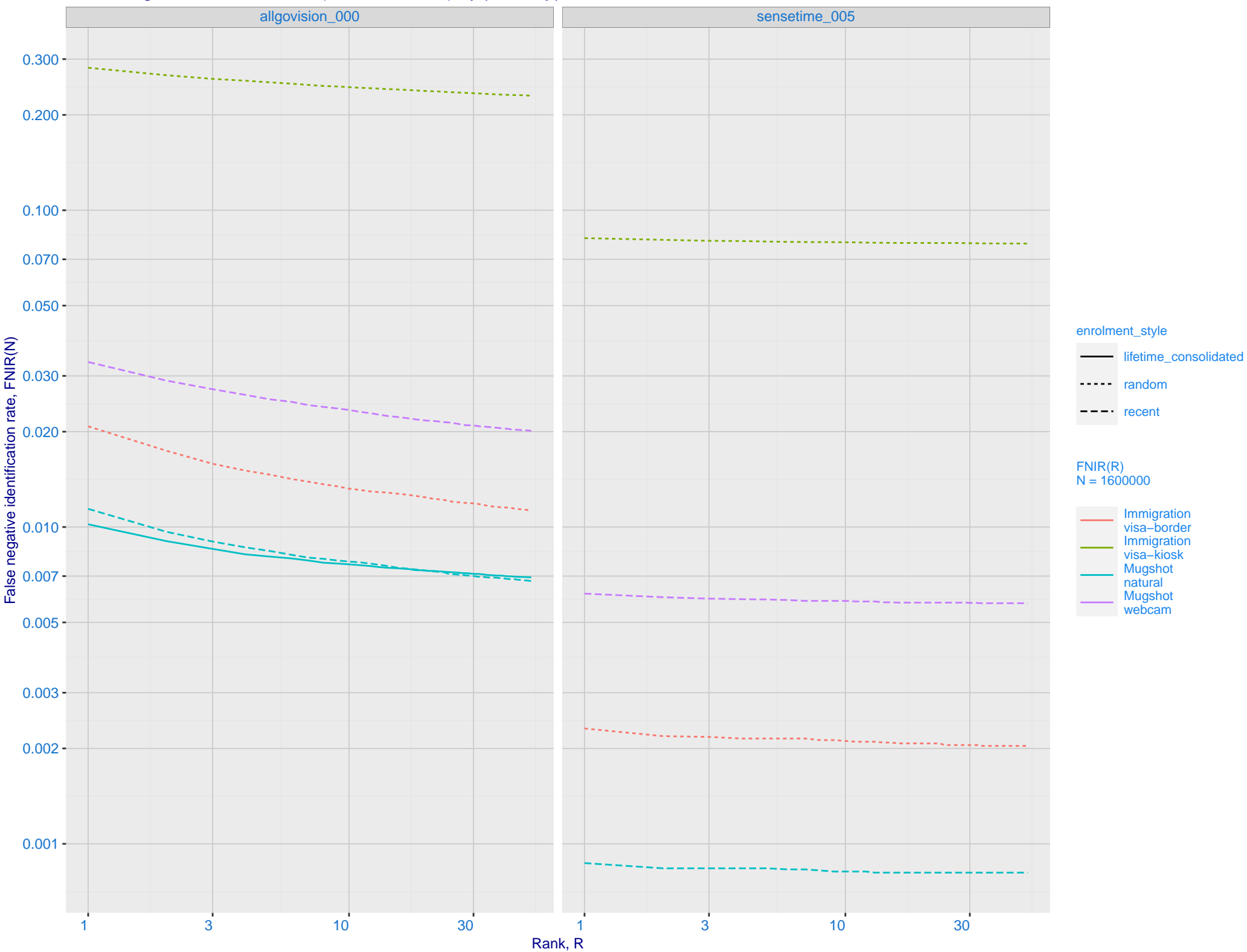




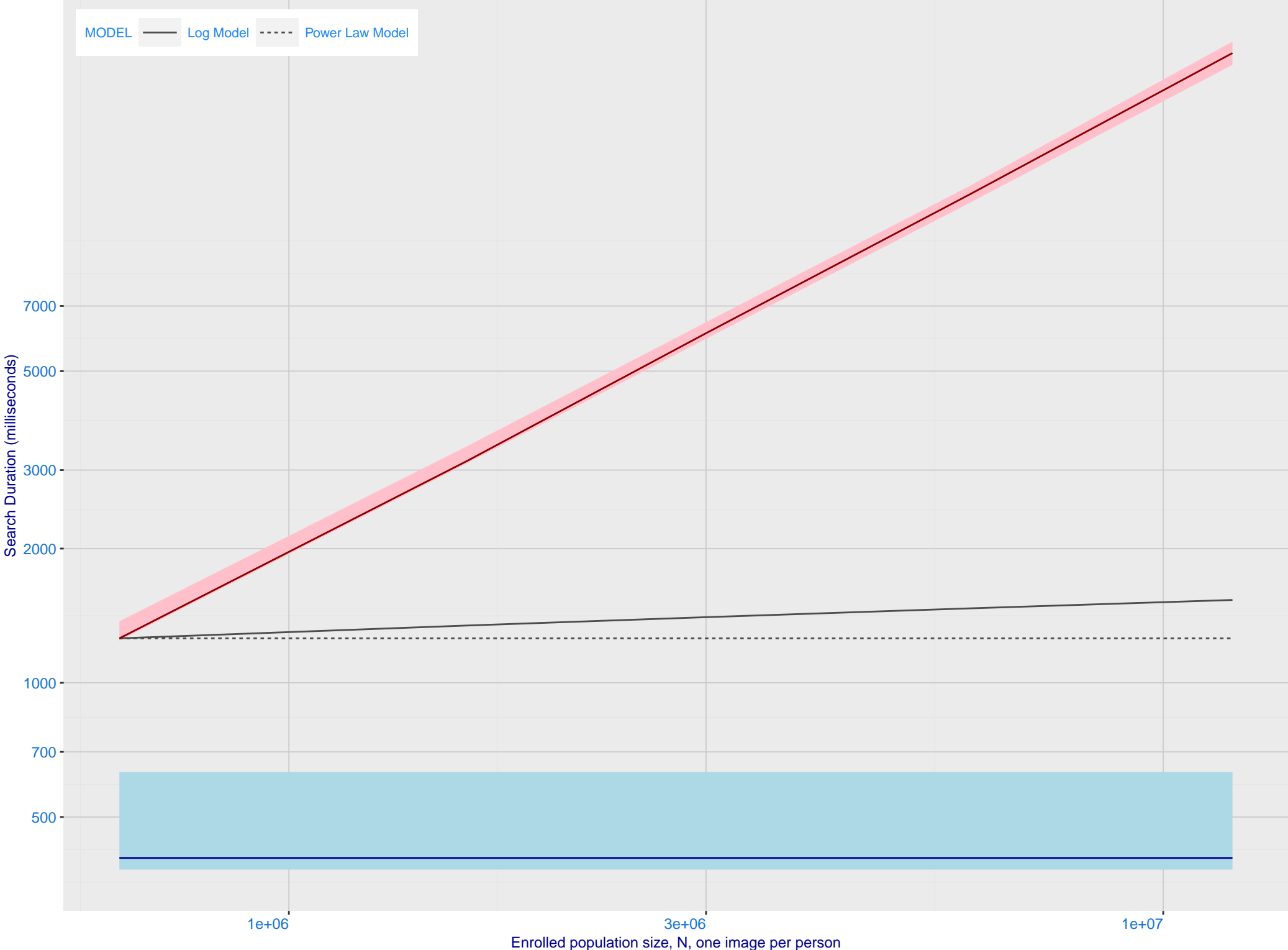
K: Investigational mode: FNIR(N, 1, 0) vs. most accurate (sensetime\_005)



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

