

A: Datasheet

Algorithm: innovatrics_008

Developer: Innovatrics

Submission Date: 2023_01_12

Template size: 4136 bytes

Template time (2.5 percentile): 958 msec

Template time (median): 960 msec

Template time (97.5 percentile): 1019 msec

Investigation:

Frontal mugshot ranking 40 (out of 388) -- FNIR(1600000, 0, 1) = 0.0013 vs. lowest 0.0008 from sensetime_009

Mugshot webcam ranking 40 (out of 350) -- FNIR(1600000, 0, 1) = 0.0084 vs. lowest 0.0054 from sensetime_009

Mugshot profile ranking 43 (out of 319) -- FNIR(1600000, 0, 1) = 0.0824 vs. lowest 0.0517 from sensetime_009

Immigration visa-border ranking 38 (out of 277) -- FNIR(1600000, 0, 1) = 0.0017 vs. lowest 0.0006 from cloudwalk_mt_001

Immigration visa-kiosk ranking 46 (out of 222) -- FNIR(1600000, 0, 1) = 0.0668 vs. lowest 0.0395 from cloudwalk_mt_001

Identification:

Frontal mugshot ranking 44 (out of 388) -- FNIR(1600000, T, L+1) = 0.0050, FPIR=0.001000 vs. lowest 0.0011 from idemia_010

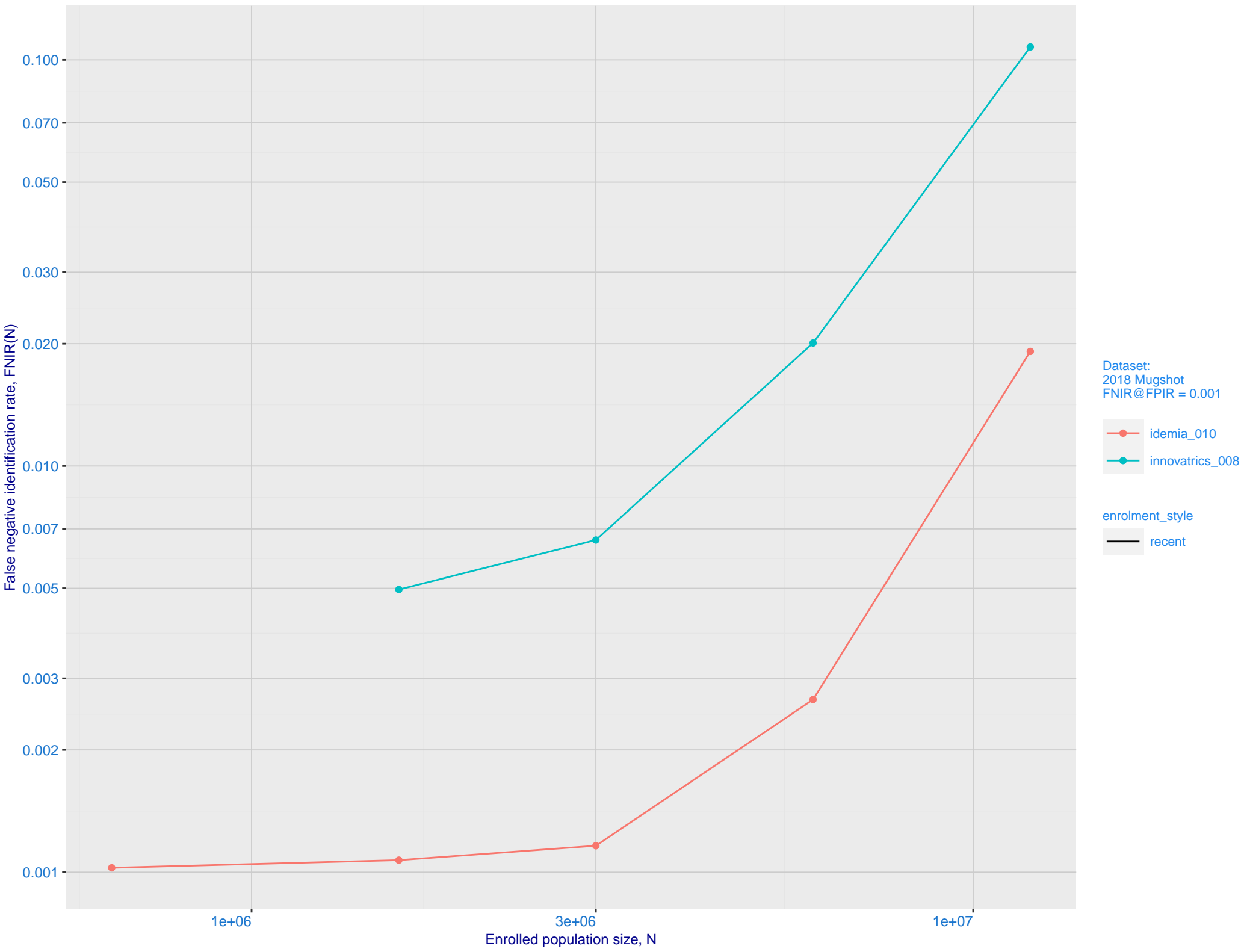
Mugshot webcam ranking 62 (out of 348) -- FNIR(1600000, T, L+1) = 0.0362, FPIR=0.001000 vs. lowest 0.0072 from sensetime_009

Mugshot profile ranking 288 (out of 318) -- FNIR(1600000, T, L+1) = 0.9999, FPIR=0.001000 vs. lowest 0.0698 from cloudwalk_mt_001

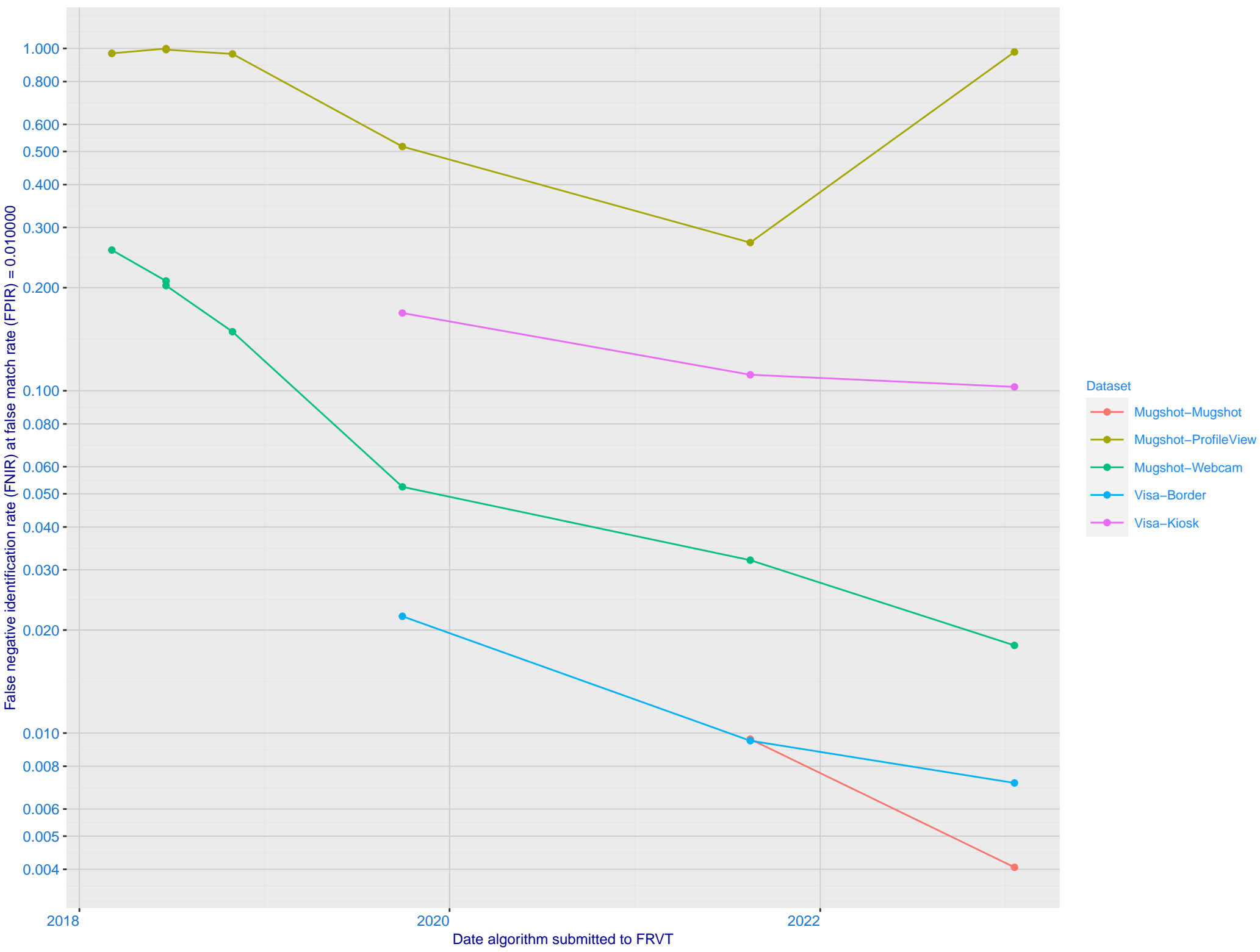
Immigration visa-border ranking 58 (out of 276) -- FNIR(1600000, T, L+1) = 0.0129, FPIR=0.001000 vs. lowest 0.0013 from cloudwalk_mt_001

Immigration visa-kiosk ranking 47 (out of 222) -- FNIR(1600000, T, L+1) = 0.1397, FPIR=0.001000 vs. lowest 0.0532 from cloudwalk_mt_001

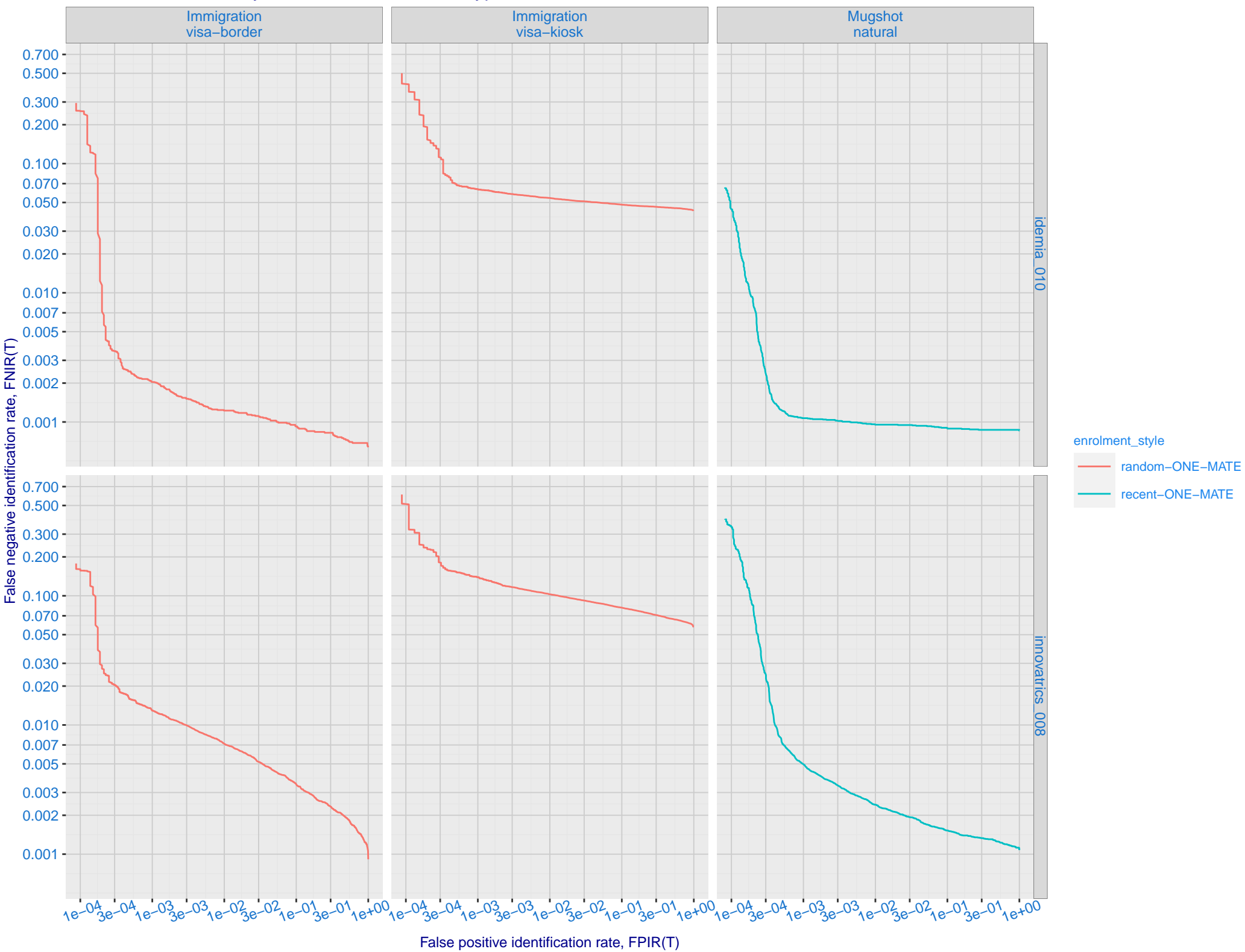
B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (idemia_010)



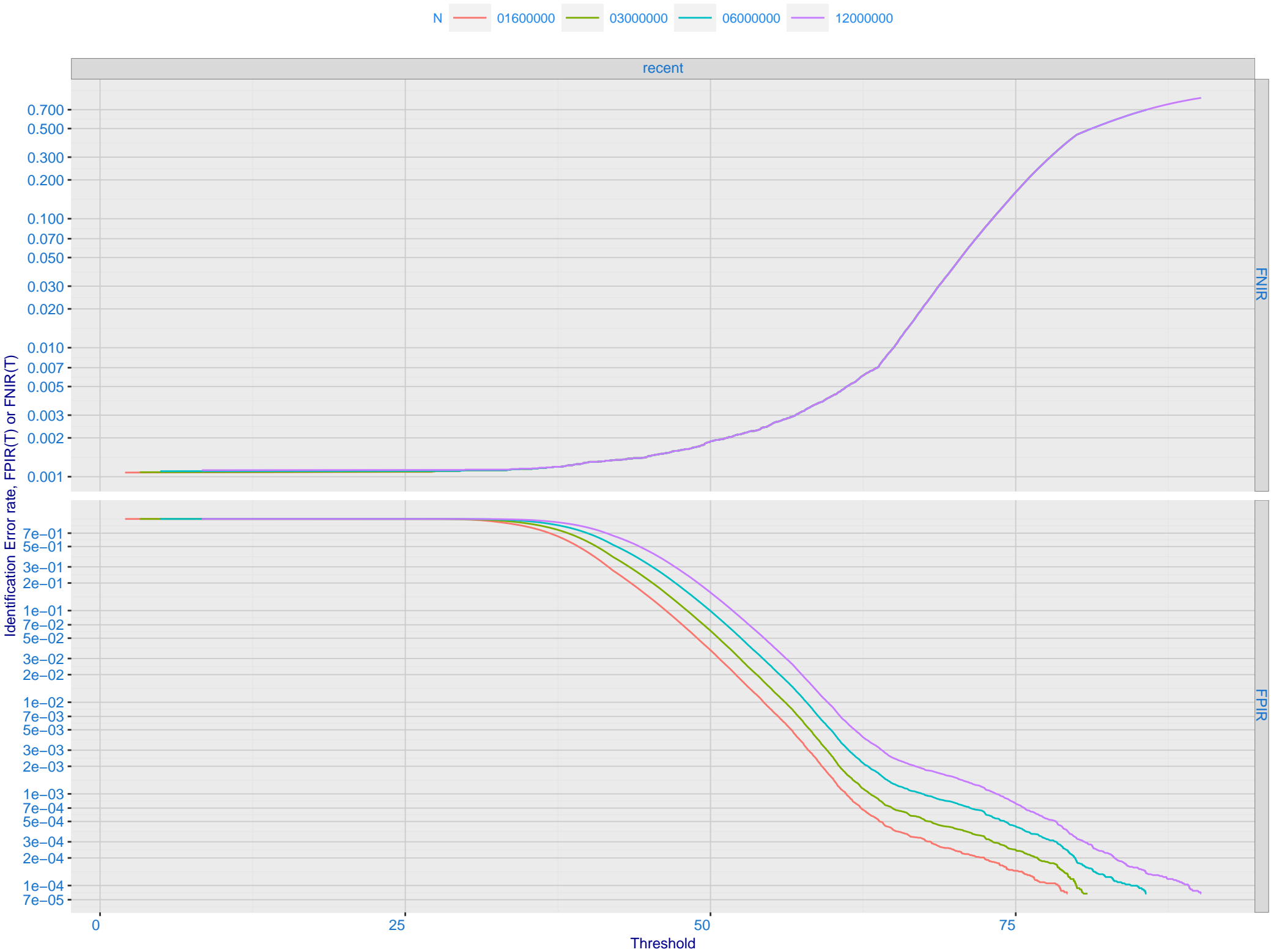
C: Evolution of accuracy for INNOVATRICS algorithms on three datasets 2018 – present



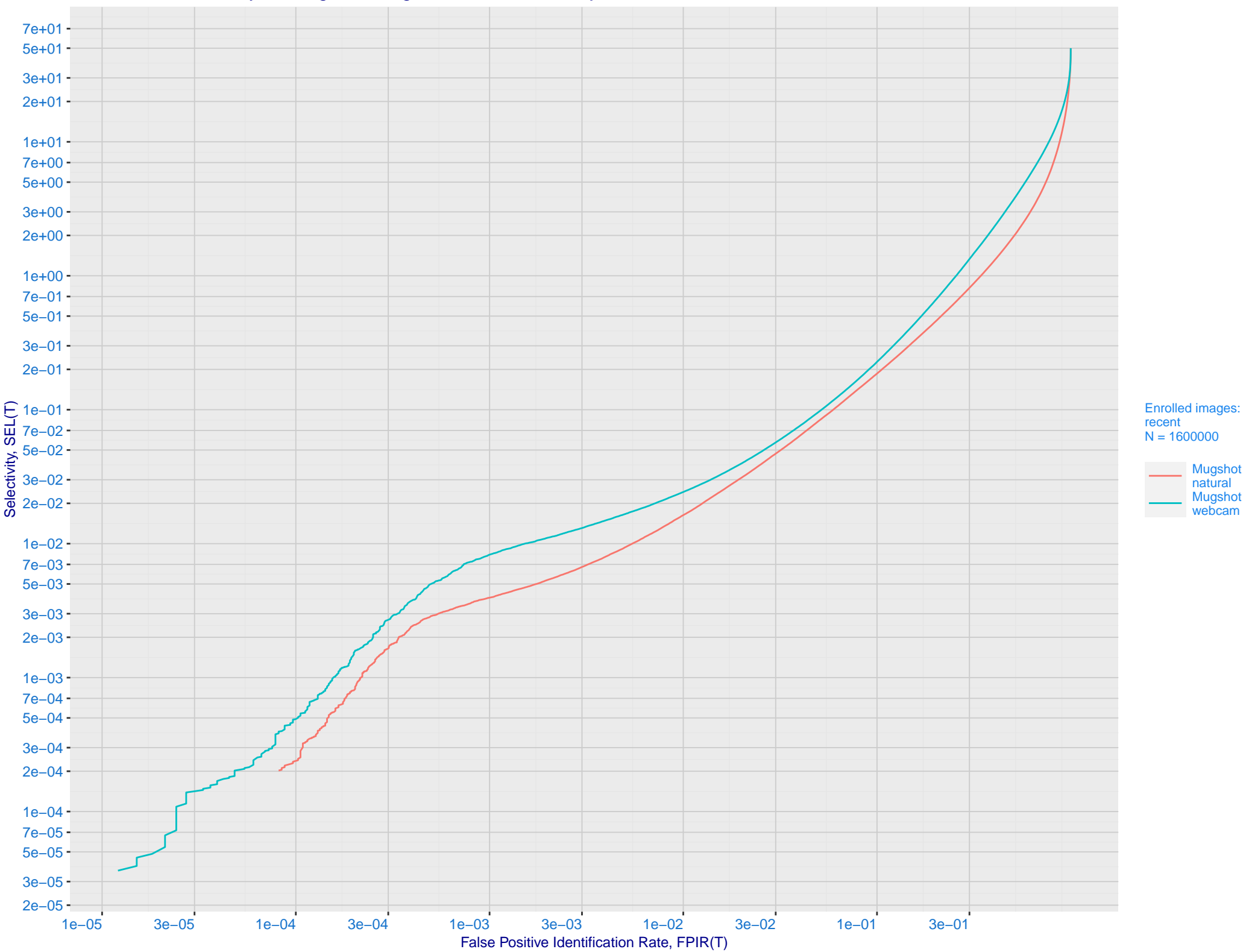
D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



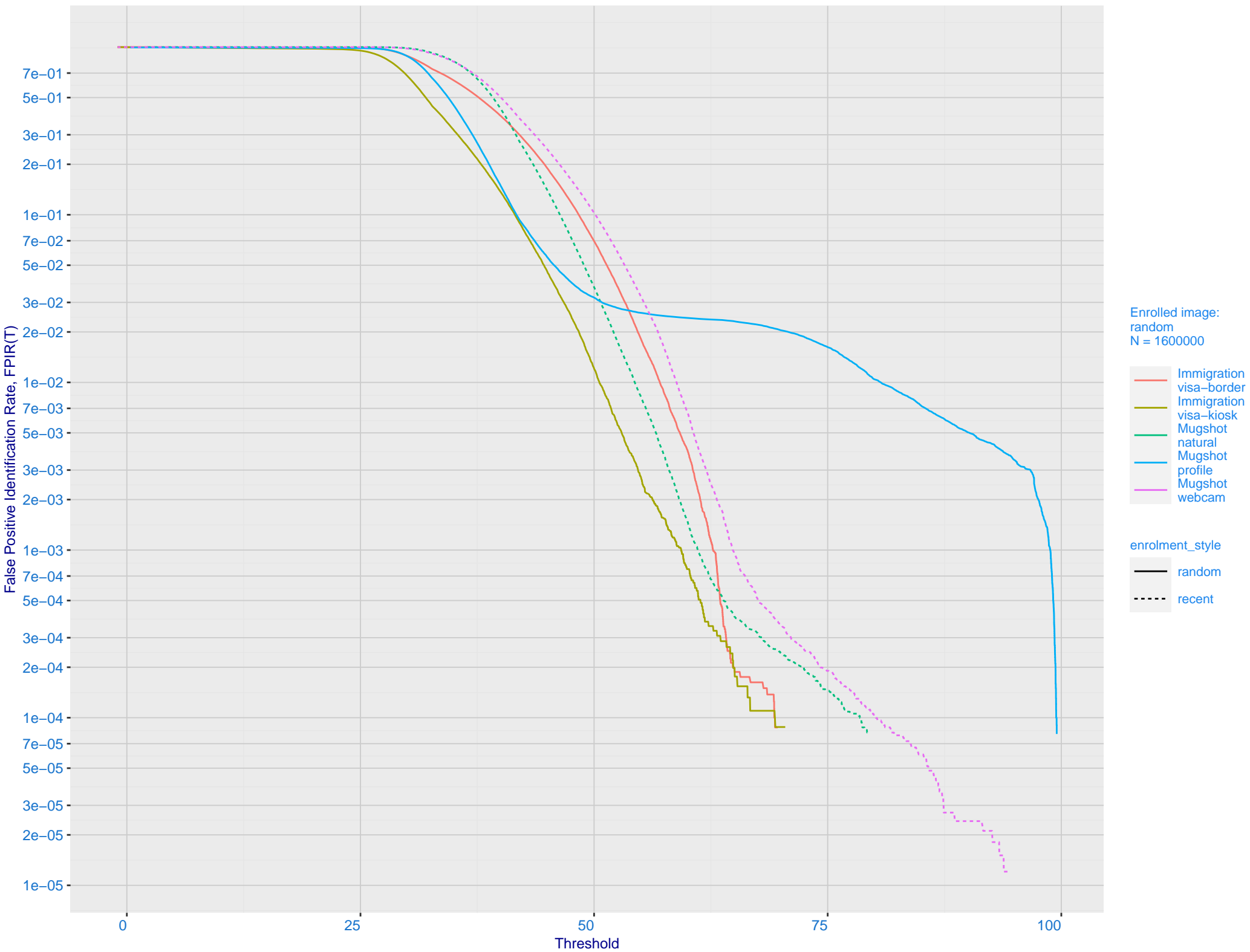
E: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



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

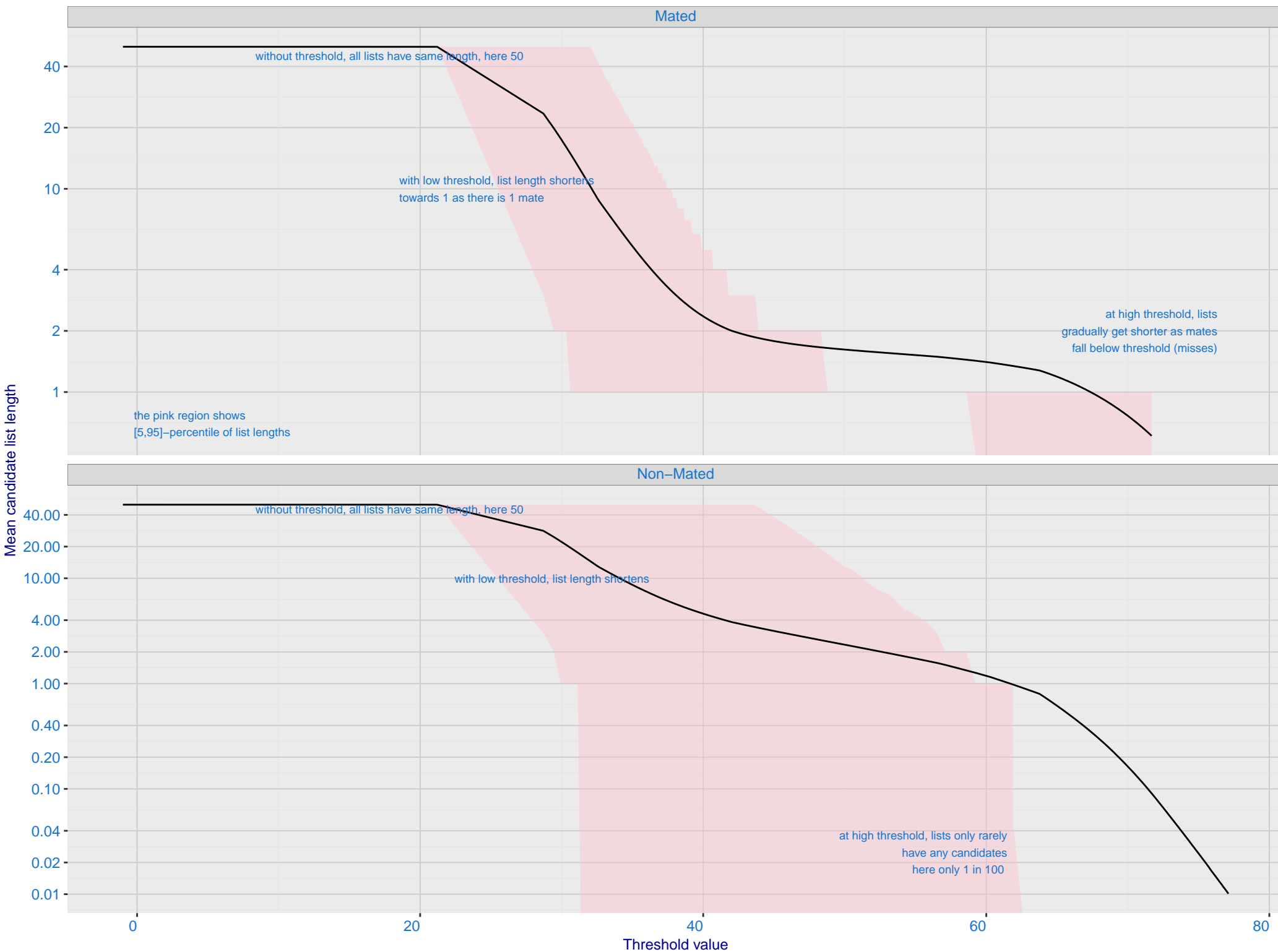


G: FPIR dependence on T by probe type for N = 1600000 subjects



H: Reduced length candidate lists for human review

Dataset is border–border with time–lapse [10,15] YRS with N = 1600000. Probes are 10–15 years later than enrollment image



I: FNIR and FPIR dependence on threshold

Dataset is border-border with time-lapse [10,15] YRS with N = 1600000. Probes are 10-15 years later than enrollment image

