

A: Datasheet

Algorithm: glory_0

Developer: Glory Ltd

Submission Date: 2018_06_30

Template size: 418 bytes

Template time (2.5 percentile): 153 msec

Template time (median): 159 msec

Template time (97.5 percentile): 174 msec

Investigation:

Frontal mugshot ranking 227 (out of 259) --- FNIR(1600000, 0, 1) = 0.1781 vs. lowest 0.0009 from sensetime_005

Mugshot webcam ranking 197 (out of 221) --- FNIR(1600000, 0, 1) = 0.3201 vs. lowest 0.0062 from sensetime_005

Mugshot profile ranking 186 (out of 190) --- FNIR(1600000, 0, 1) = 0.9936 vs. lowest 0.0591 from sensetime_005

Immigration visa-border ranking 112 (out of 142) --- FNIR(1600000, 0, 1) = 0.2275 vs. lowest 0.0014 from visionlabs_009

Immigration visa-kiosk ranking 123 (out of 139) --- FNIR(1600000, 0, 1) = 0.6777 vs. lowest 0.0694 from cib_000

Identification:

Frontal mugshot ranking 198 (out of 259) --- FNIR(1600000, T, L+1) = 0.3668, FPIR=0.001000 vs. lowest 0.0018 from sensetime_004

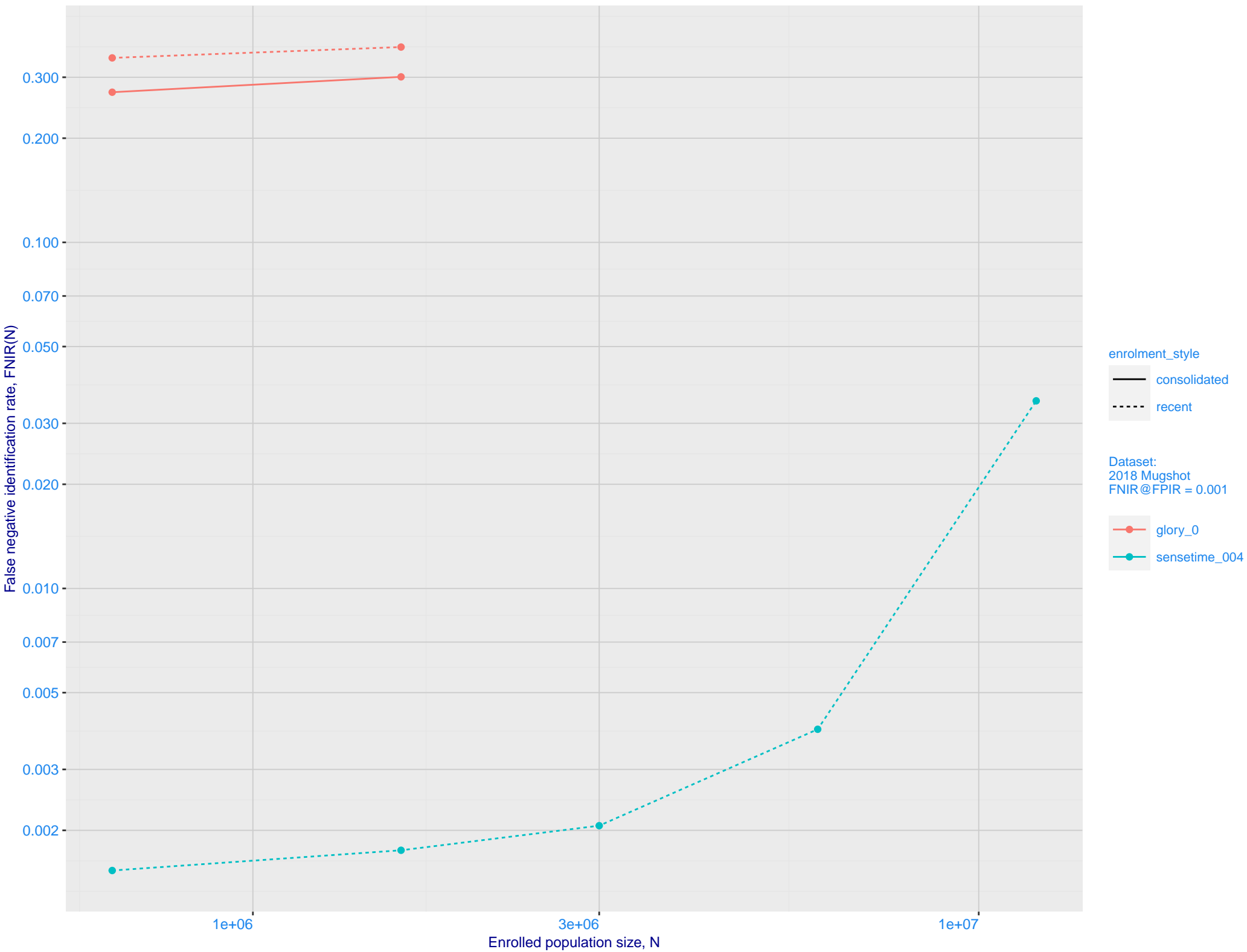
Mugshot webcam ranking 180 (out of 219) --- FNIR(1600000, T, L+1) = 0.5475, FPIR=0.001000 vs. lowest 0.0122 from sensetime_003

Mugshot profile ranking 93 (out of 189) --- FNIR(1600000, T, L+1) = 0.9946, FPIR=0.001000 vs. lowest 0.1733 from sensetime_005

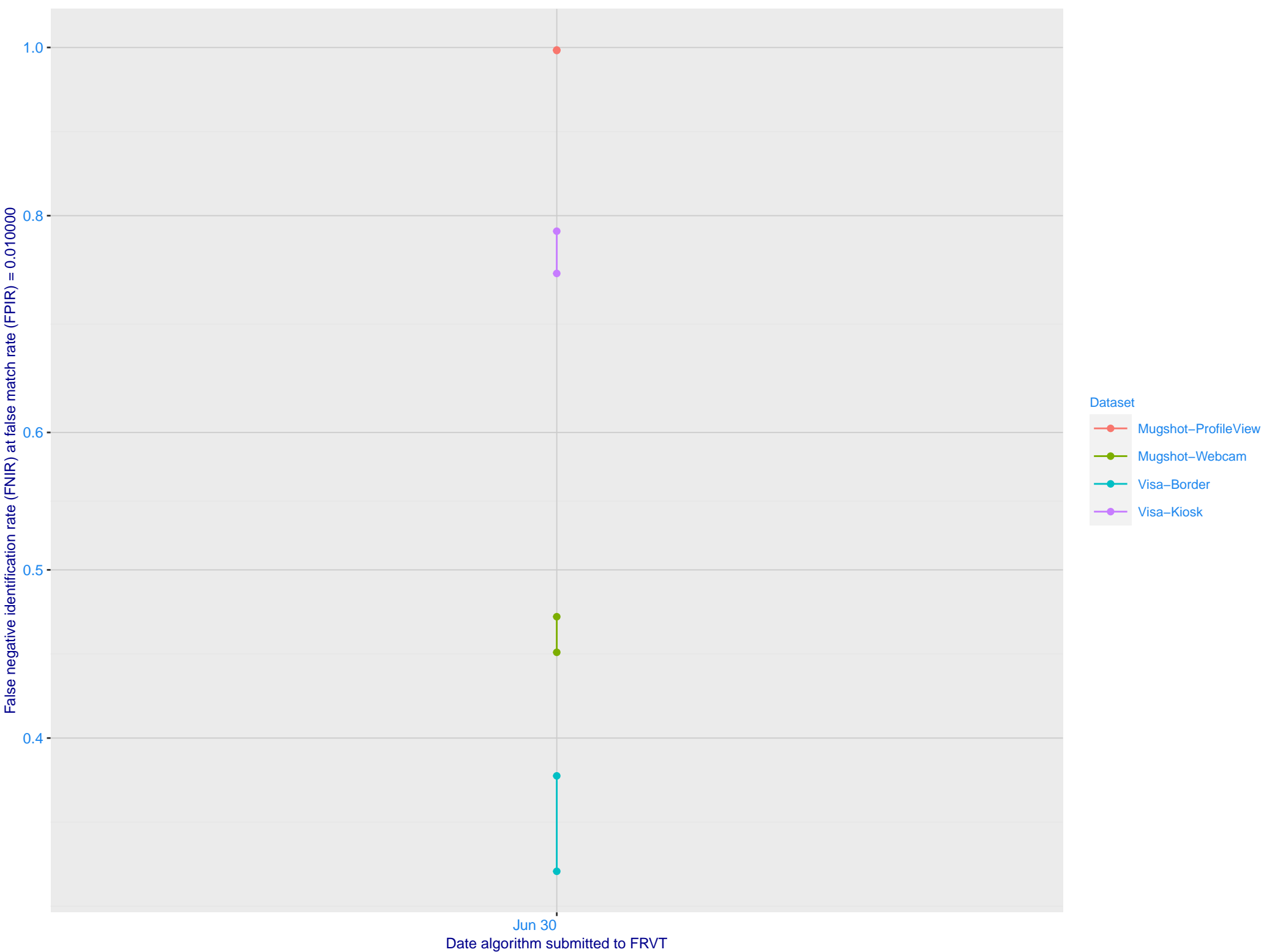
Immigration visa-border ranking 97 (out of 139) --- FNIR(1600000, T, L+1) = 0.4530, FPIR=0.001000 vs. lowest 0.0059 from sensetime_004

Immigration visa-kiosk ranking 87 (out of 134) --- FNIR(1600000, T, L+1) = 0.8389, FPIR=0.001000 vs. lowest 0.1048 from sensetime_005

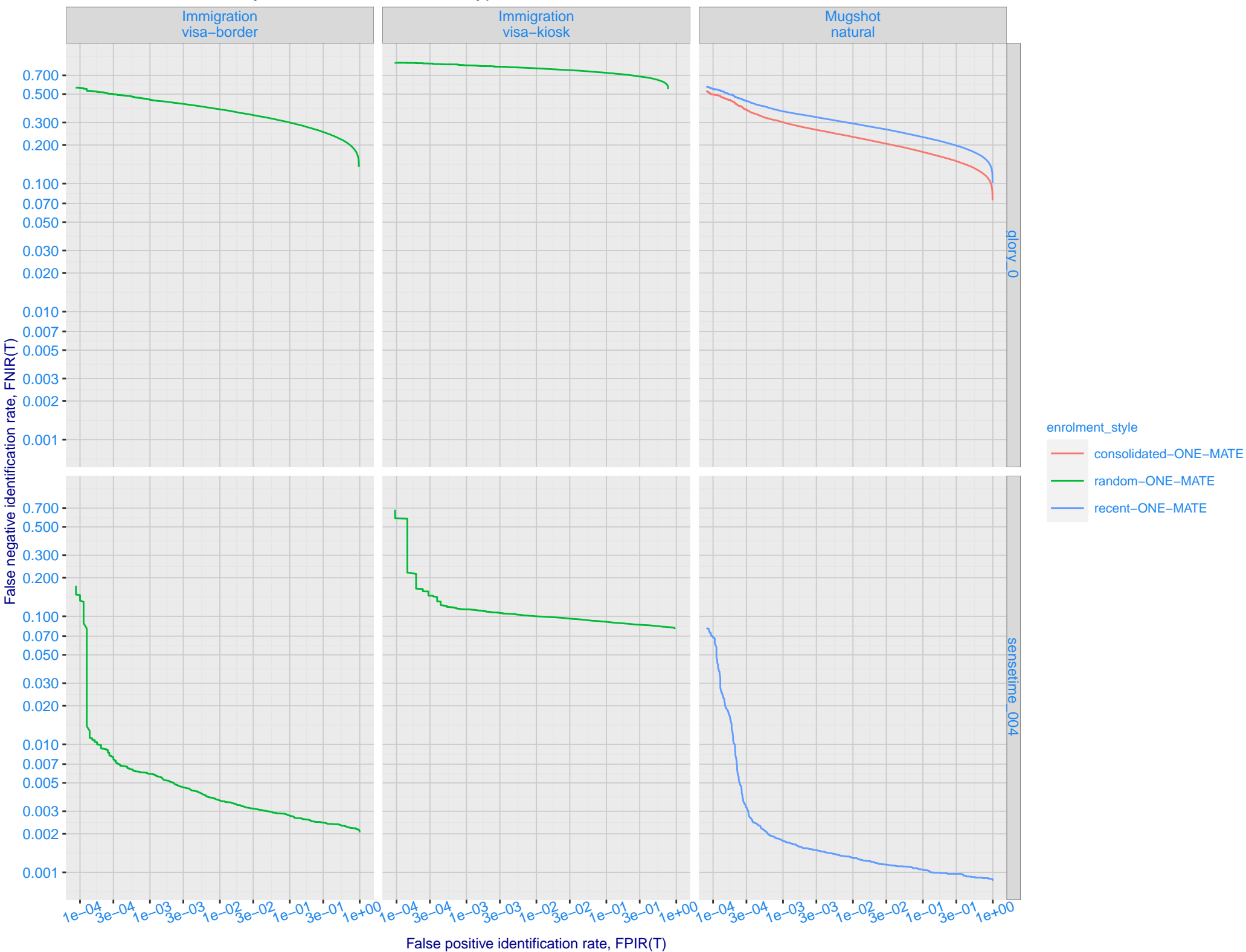
B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime_004)



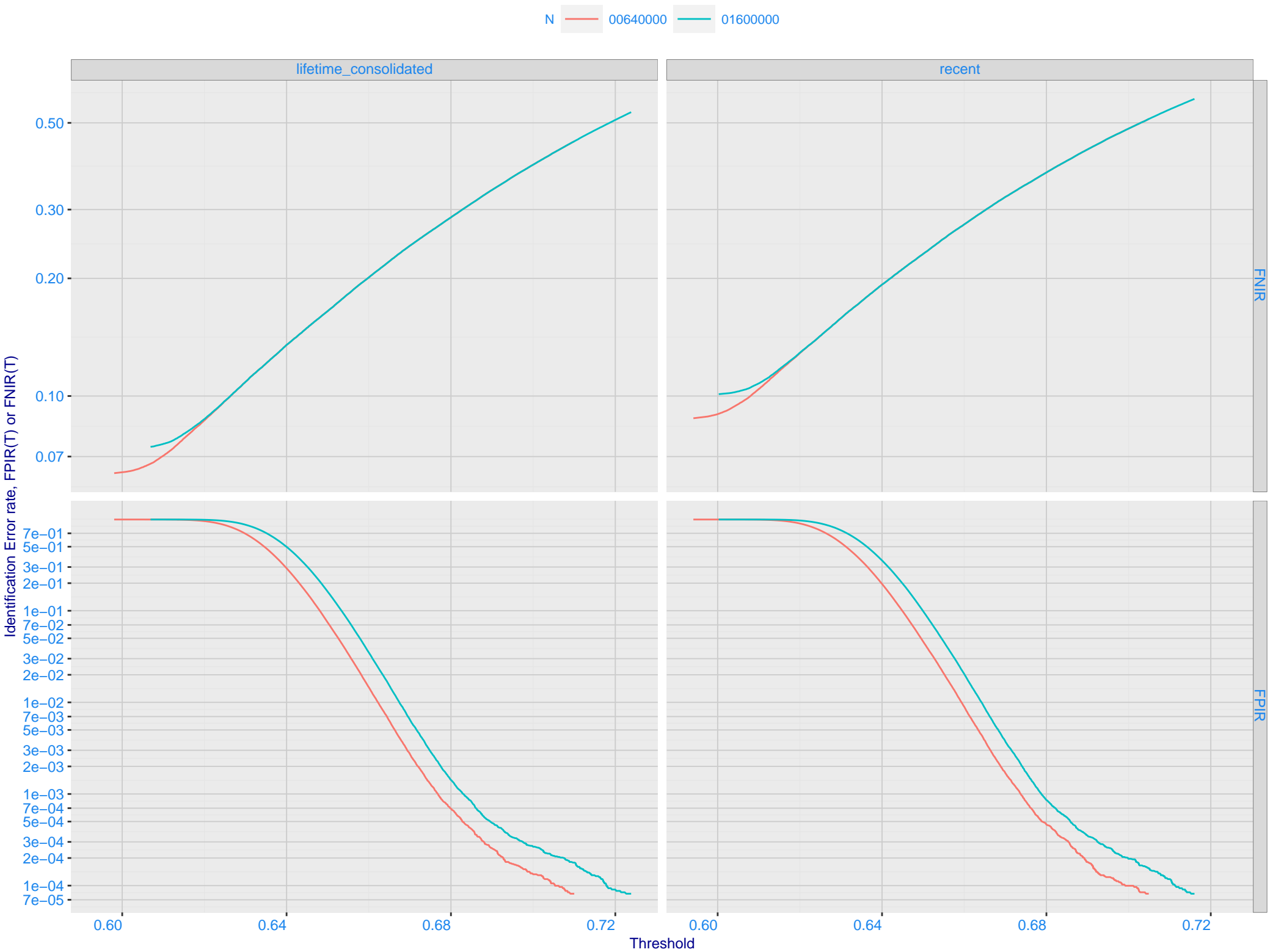
C: Evolution of accuracy for GLORY algorithms on three datasets 2018 – present



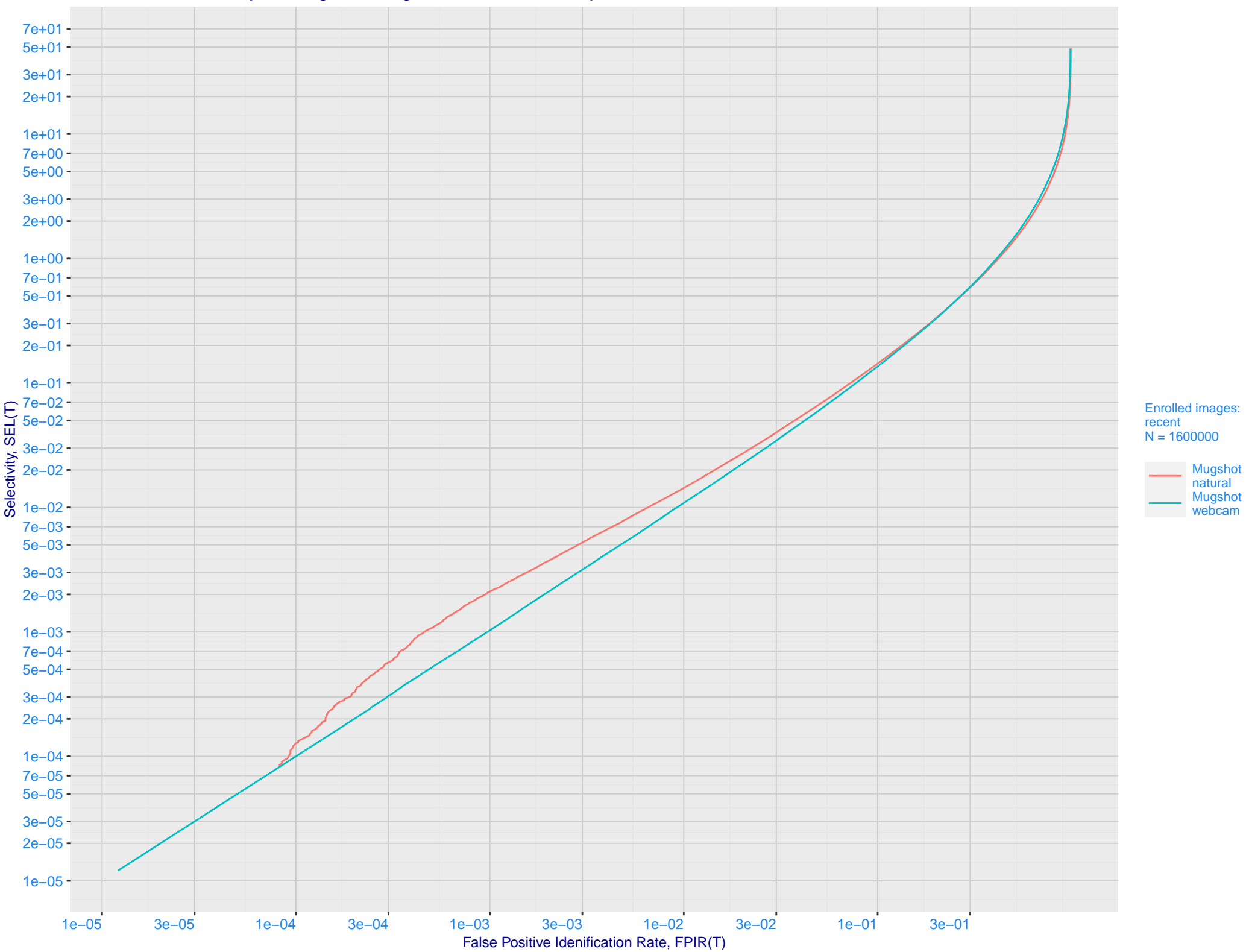
D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



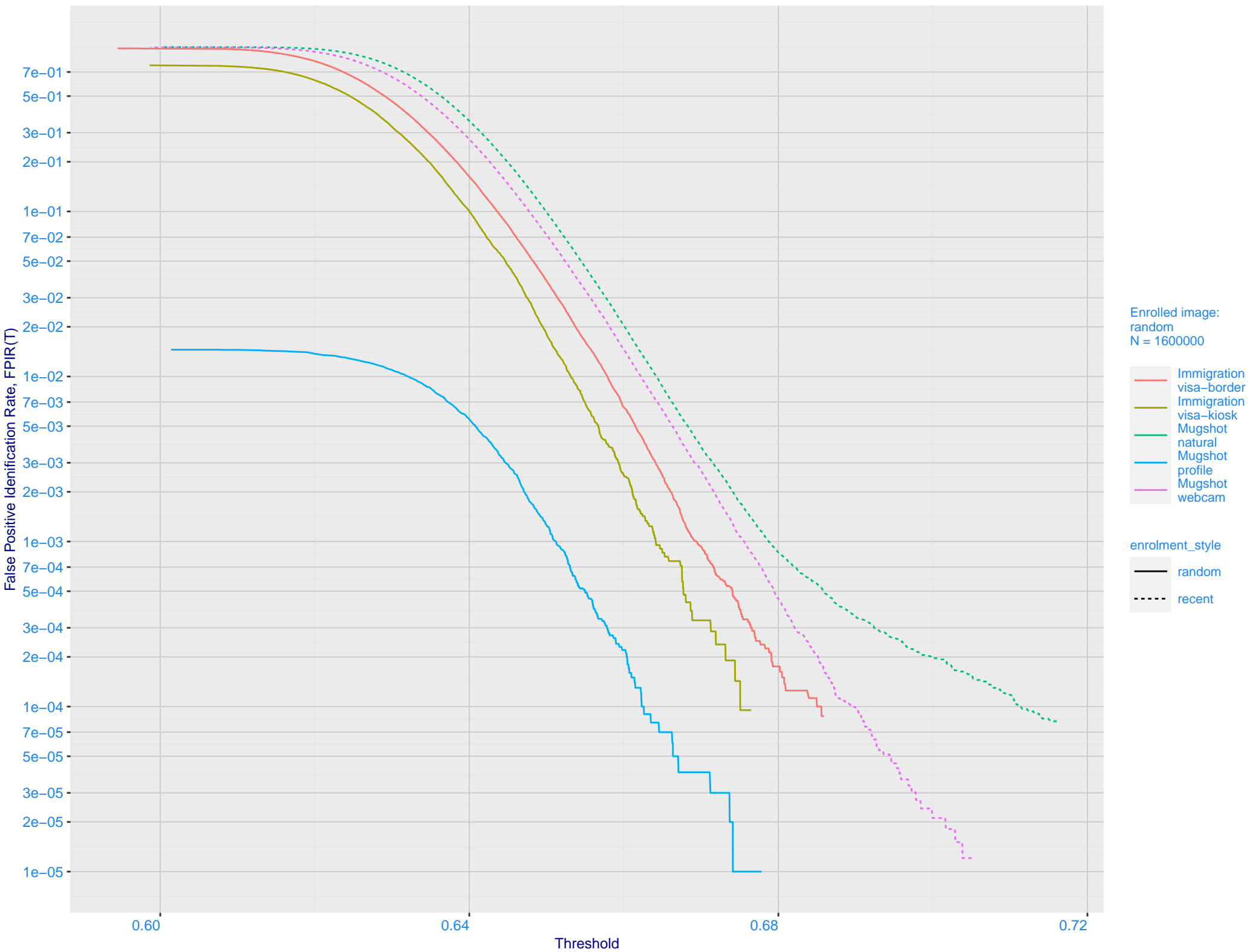
E: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



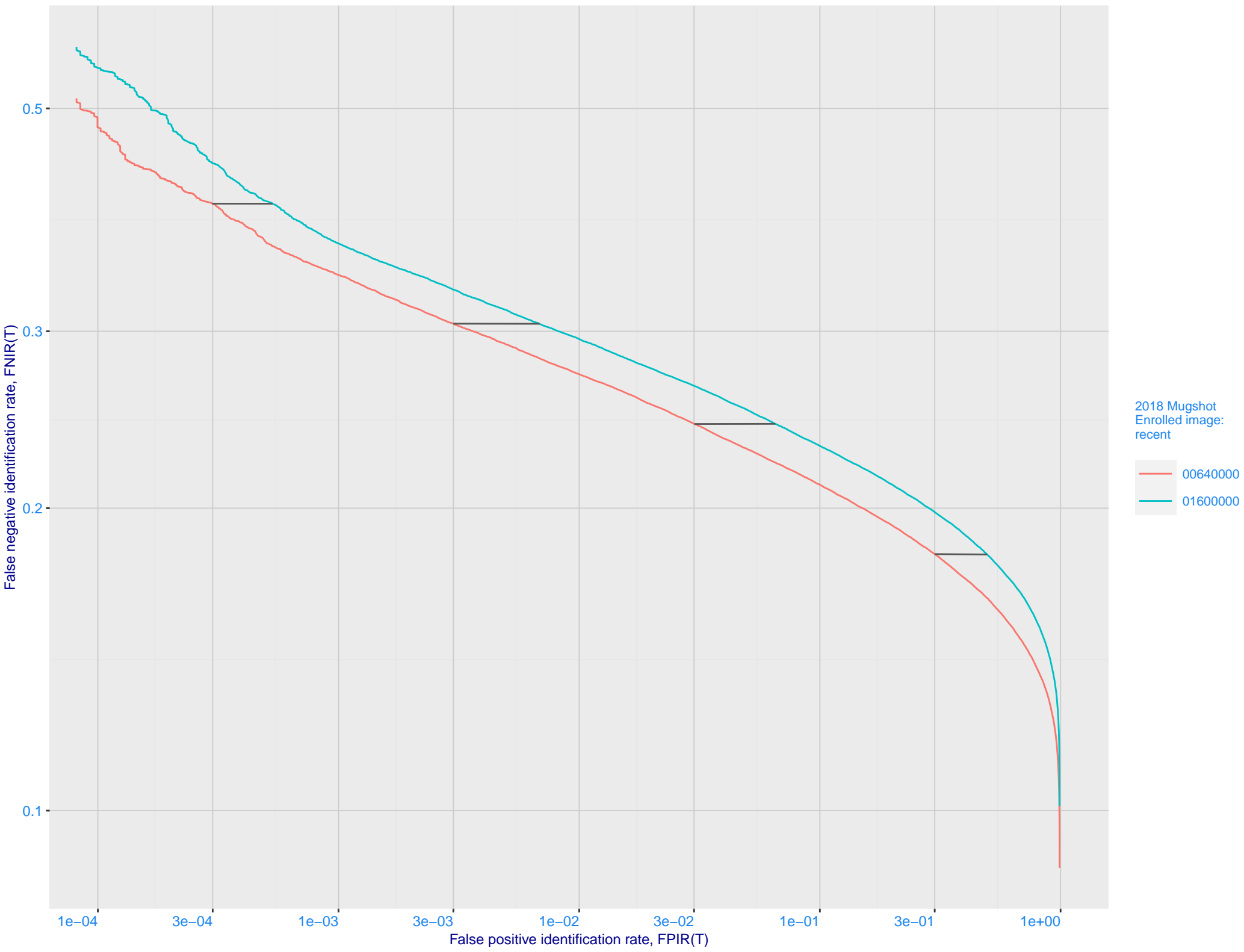
F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



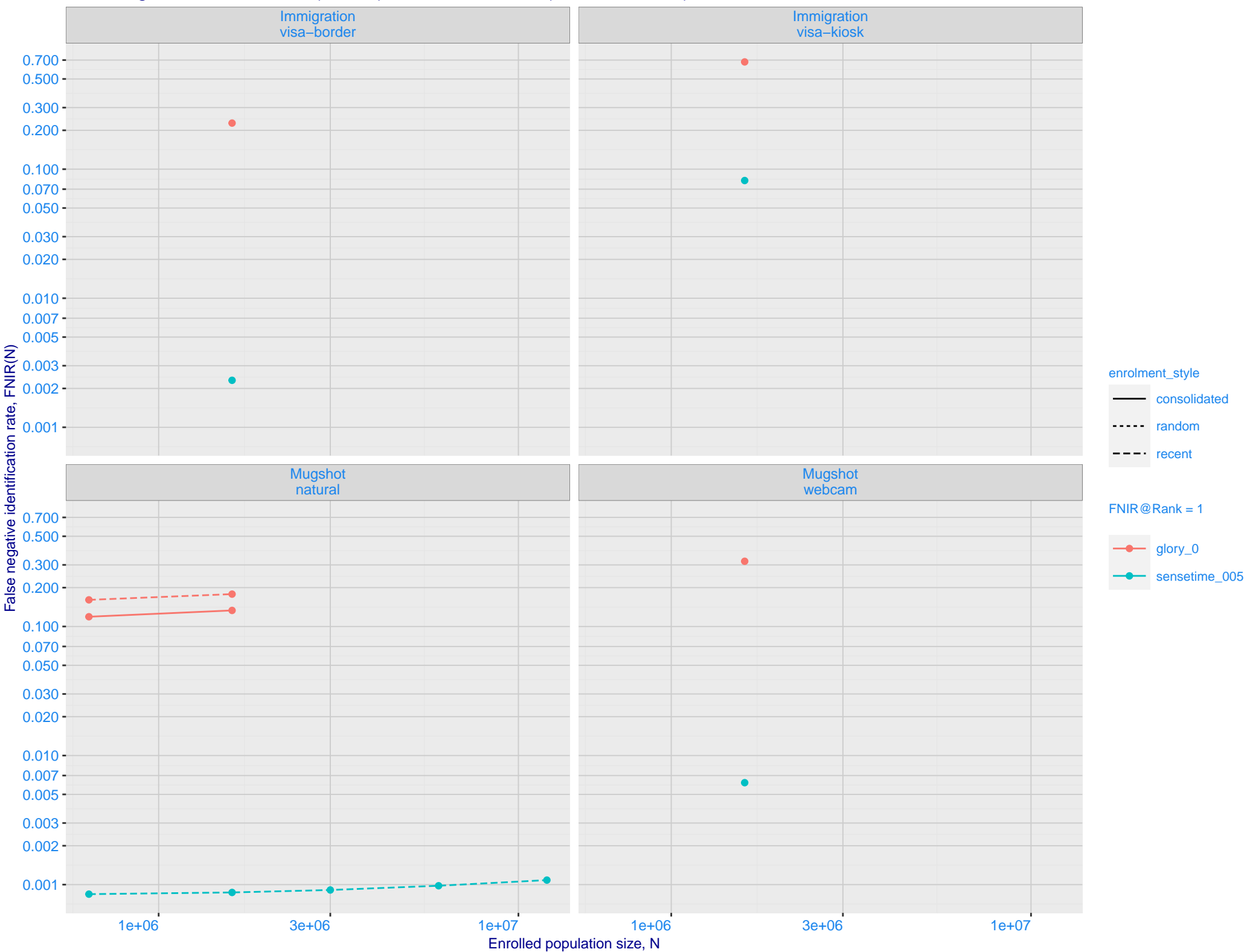
G: FPIR dependence on T by probe type for N = 1600000 subjects



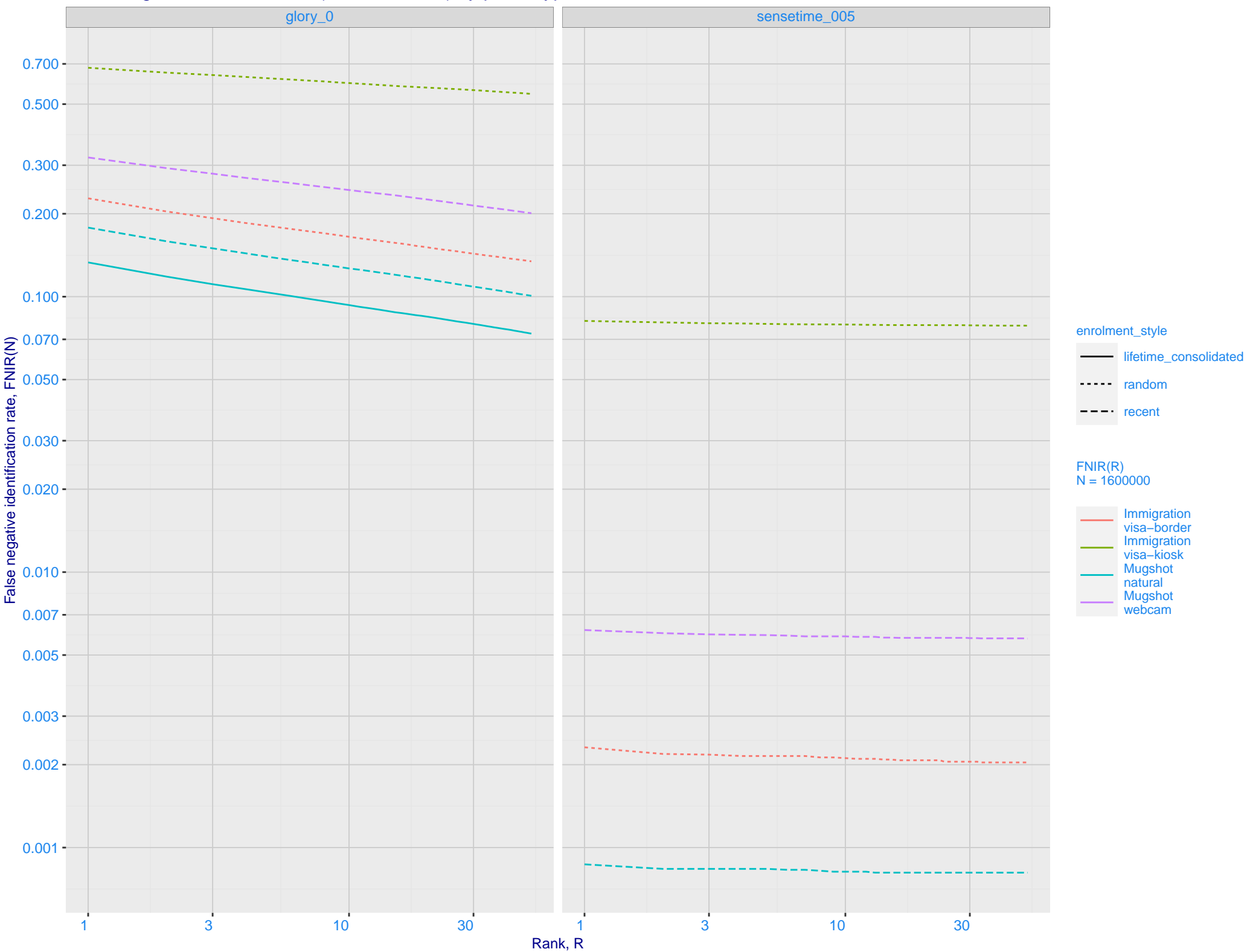
H: DET for Mugshot natural images and various N. Links connect points of equal threshold.



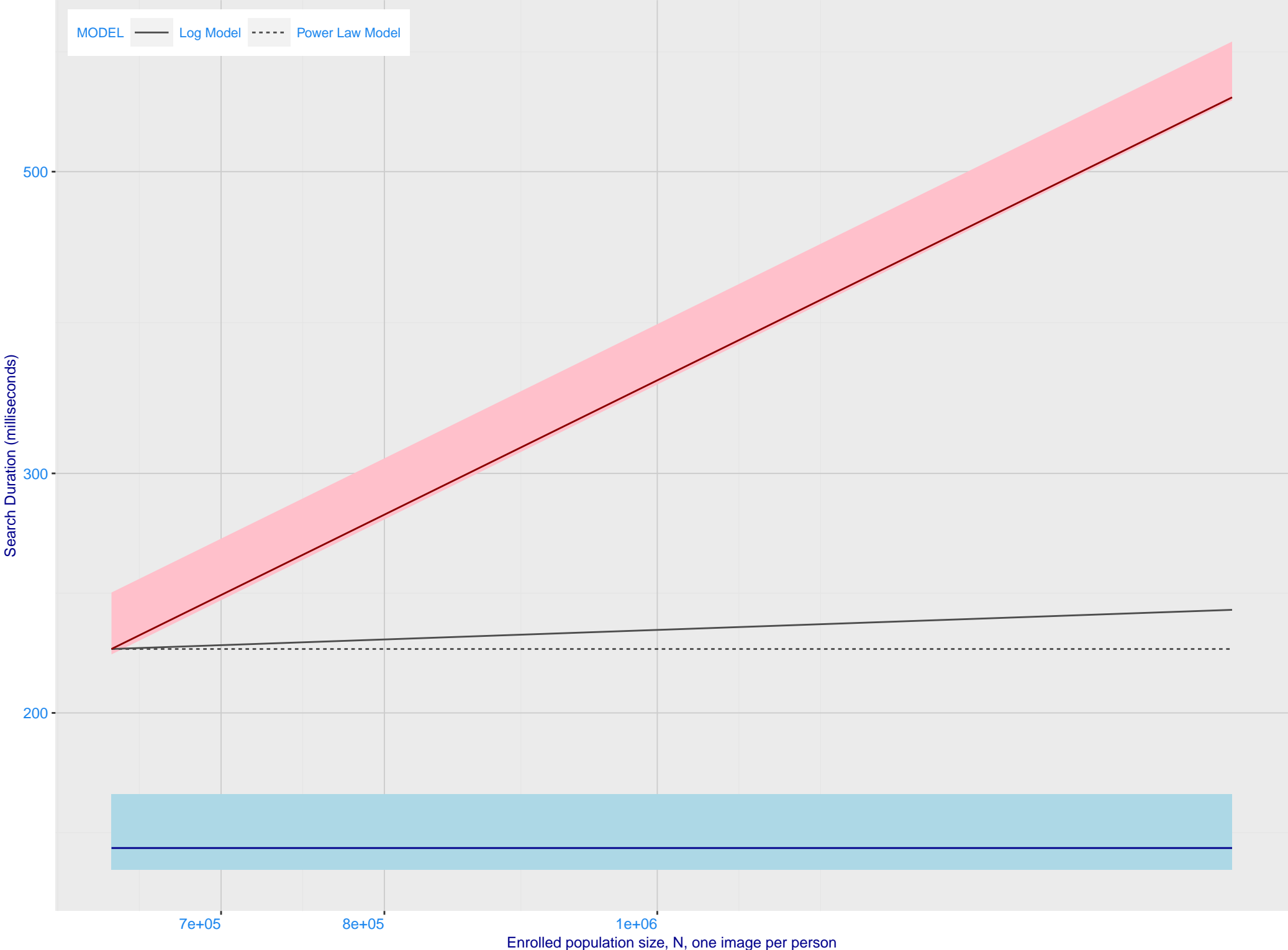
I: Investigational mode: FNIR(N, 1, 0) vs. most accurate (sensetime_005)



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

