

A: Datasheet

Algorithm: camvi\_2

Developer: Camvi Technologies

Submission Date: 2018\_02\_16

Template size: 1024 bytes

Template time (2.5 percentile): 756 msec

Template time (median): 770 msec

Template time (97.5 percentile): 787 msec

Investigation:

Frontal mugshot ranking 218 (out of 259) -- FNIR(1600000, 0, 1) = 0.1269 vs. lowest 0.0009 from sensetime\_005

Mugshot profile ranking 109 (out of 190) -- FNIR(1600000, 0, 1) = 0.9152 vs. lowest 0.0591 from sensetime\_005

Immigration visa-border ranking 110 (out of 142) -- FNIR(1600000, 0, 1) = 0.1941 vs. lowest 0.0014 from visionlabs\_009

Immigration visa-kiosk ranking 117 (out of 139) -- FNIR(1600000, 0, 1) = 0.5041 vs. lowest 0.0694 from cib\_000

Identification:

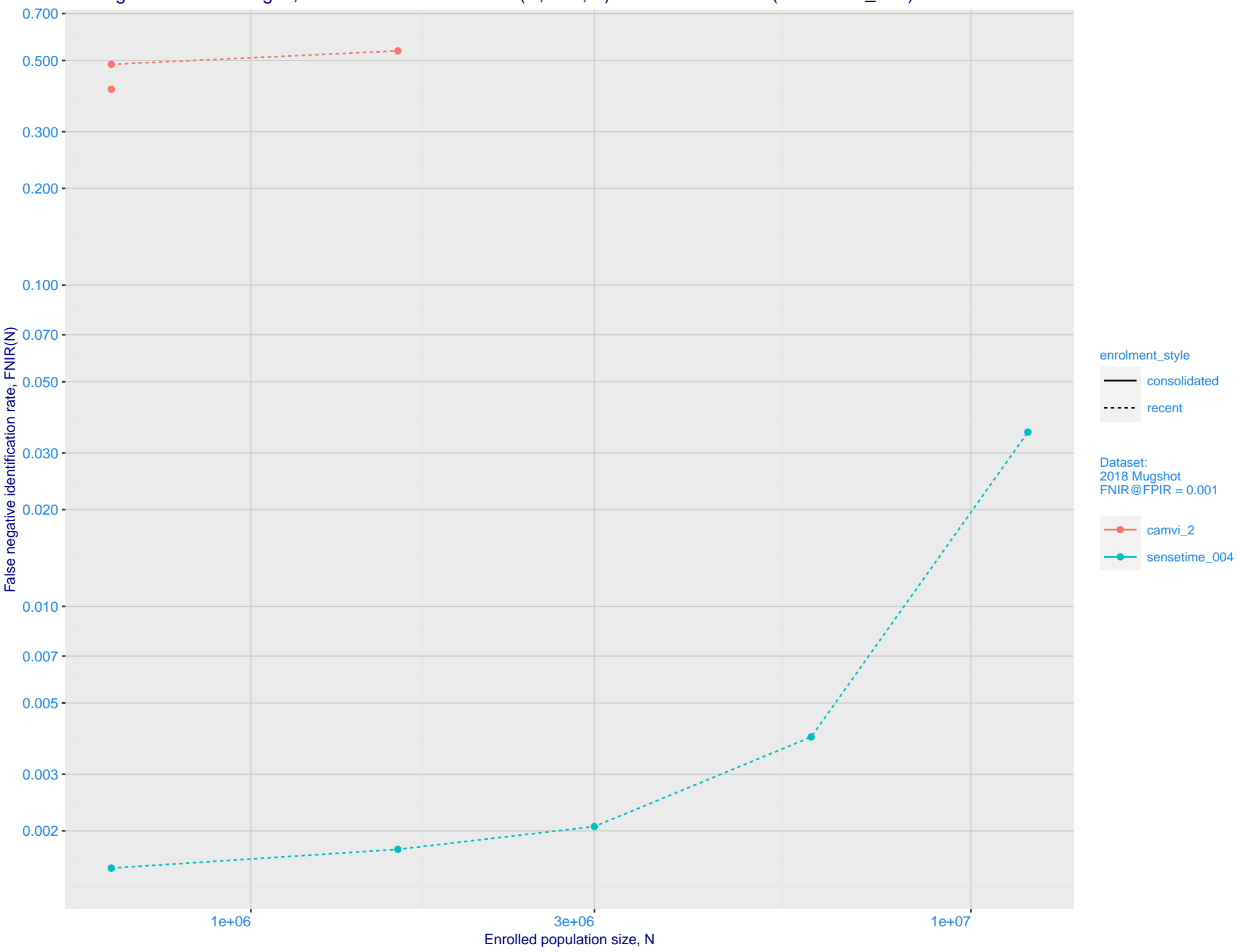
Frontal mugshot ranking 217 (out of 259) -- FNIR(1600000, T, L+1) = 0.5356, FPIR=0.001000 vs. lowest 0.0018 from sensetime\_004

Mugshot profile ranking 70 (out of 189) -- FNIR(1600000, T, L+1) = 0.9892, FPIR=0.001000 vs. lowest 0.1733 from sensetime\_005

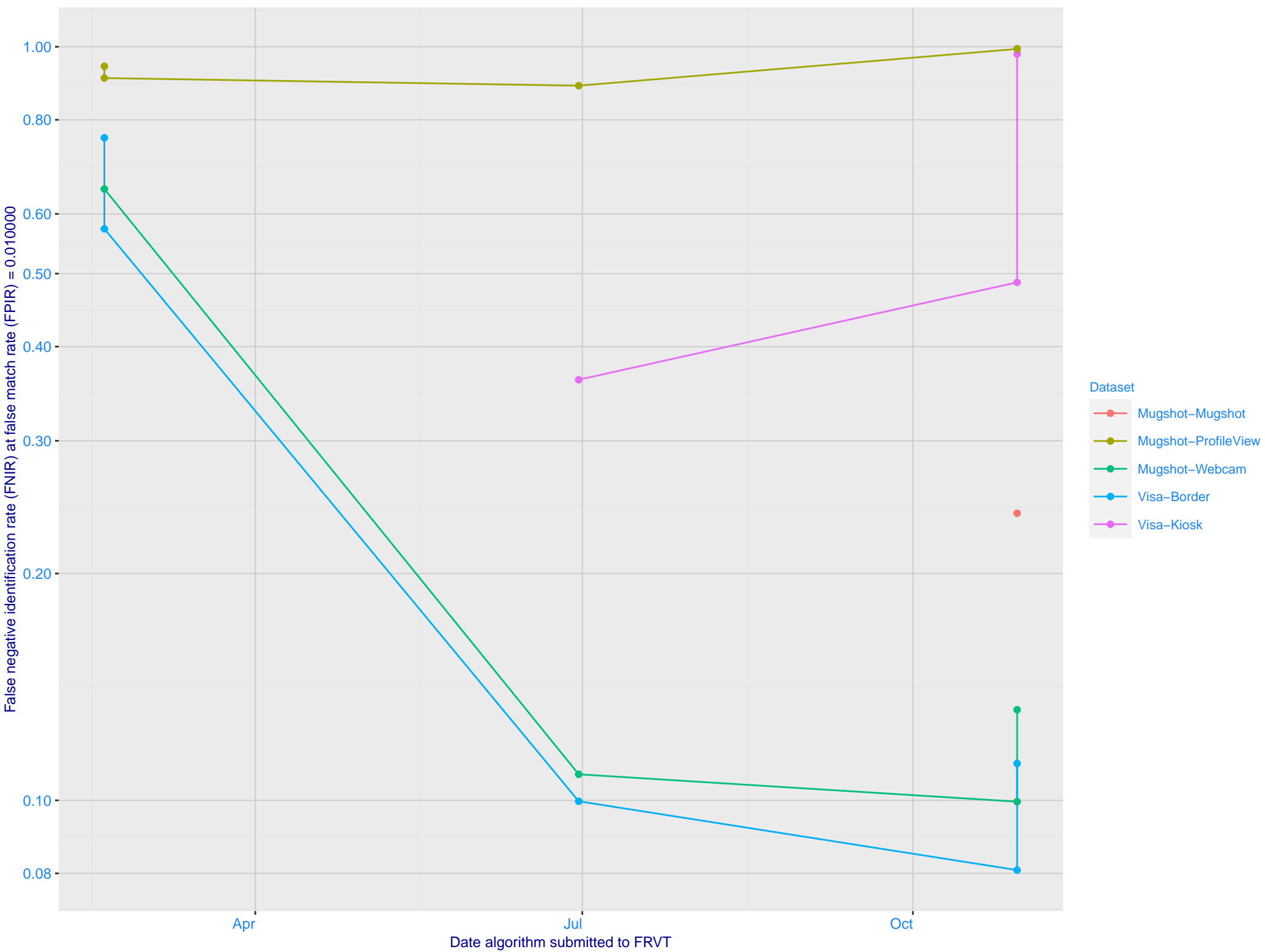
Immigration visa-border ranking 109 (out of 139) -- FNIR(1600000, T, L+1) = 0.7367, FPIR=0.001000 vs. lowest 0.0059 from sensetime\_004

Immigration visa-kiosk ranking 92 (out of 134) -- FNIR(1600000, T, L+1) = 0.8726, FPIR=0.001000 vs. lowest 0.1048 from sensetime\_005

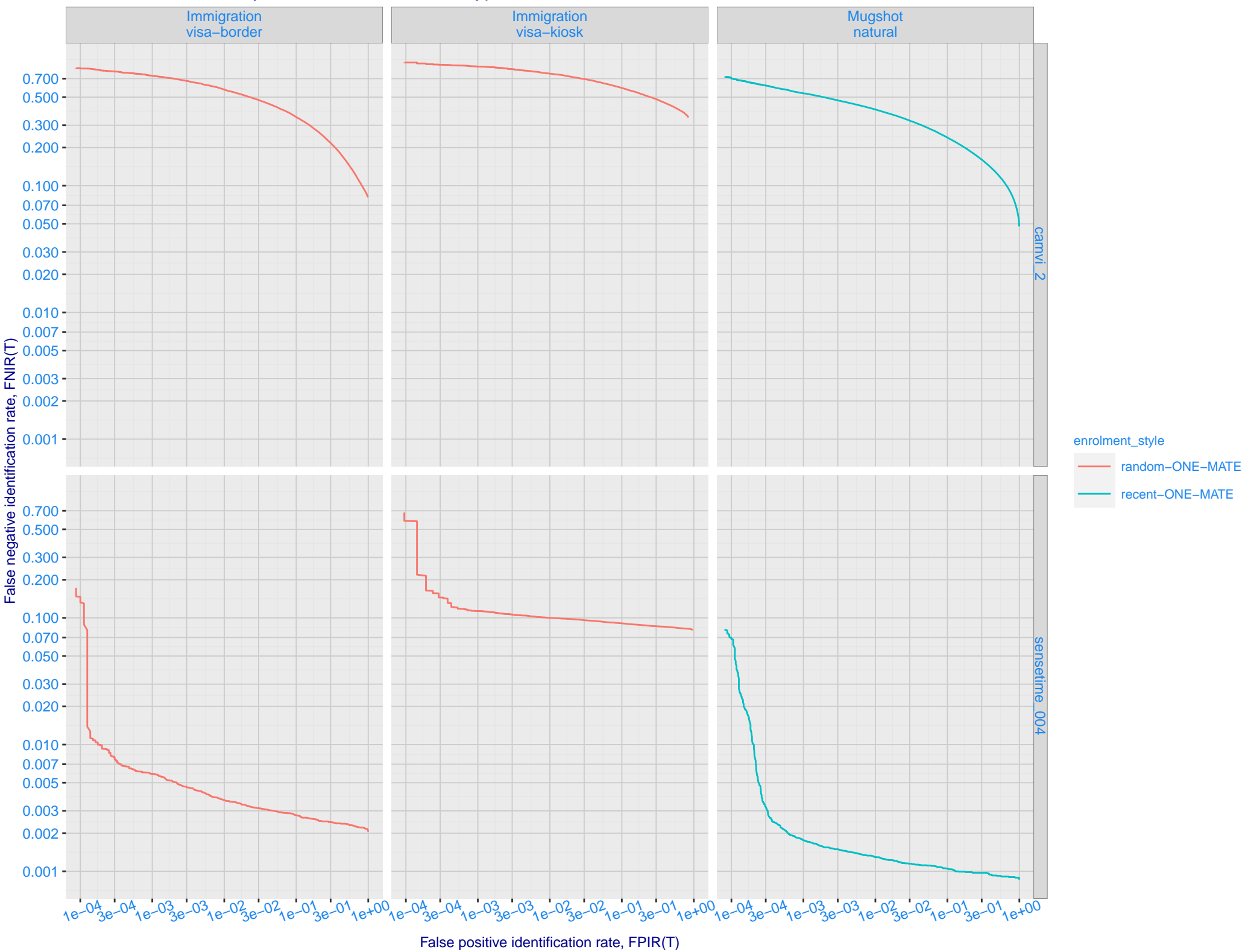
B: Mugshot natural images, identification mode: FNIR(N, L+1, T) vs. most accurate (sensetime\_004)



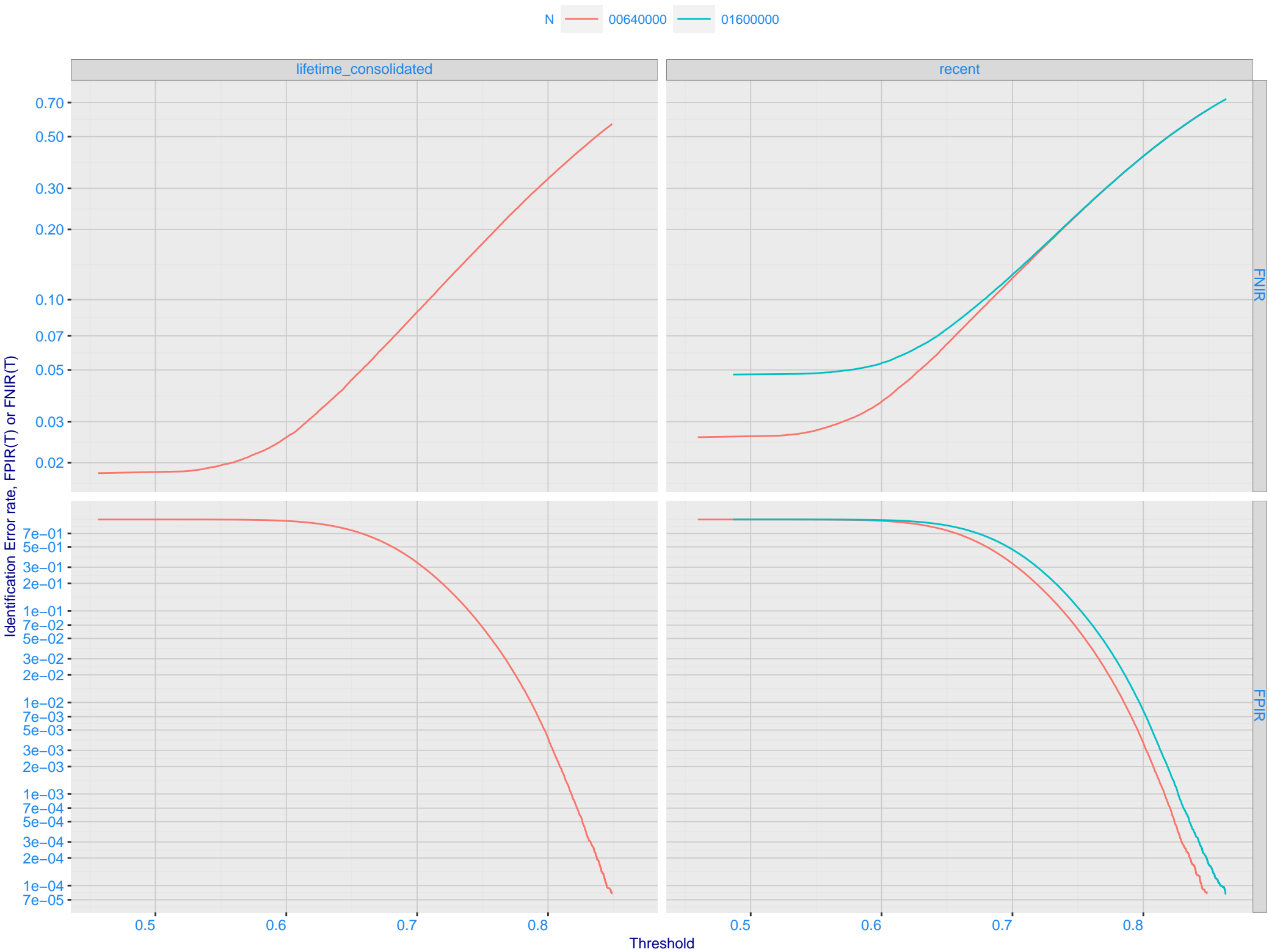
C: Evolution of accuracy for CAMVI algorithms on three datasets 2018 – present



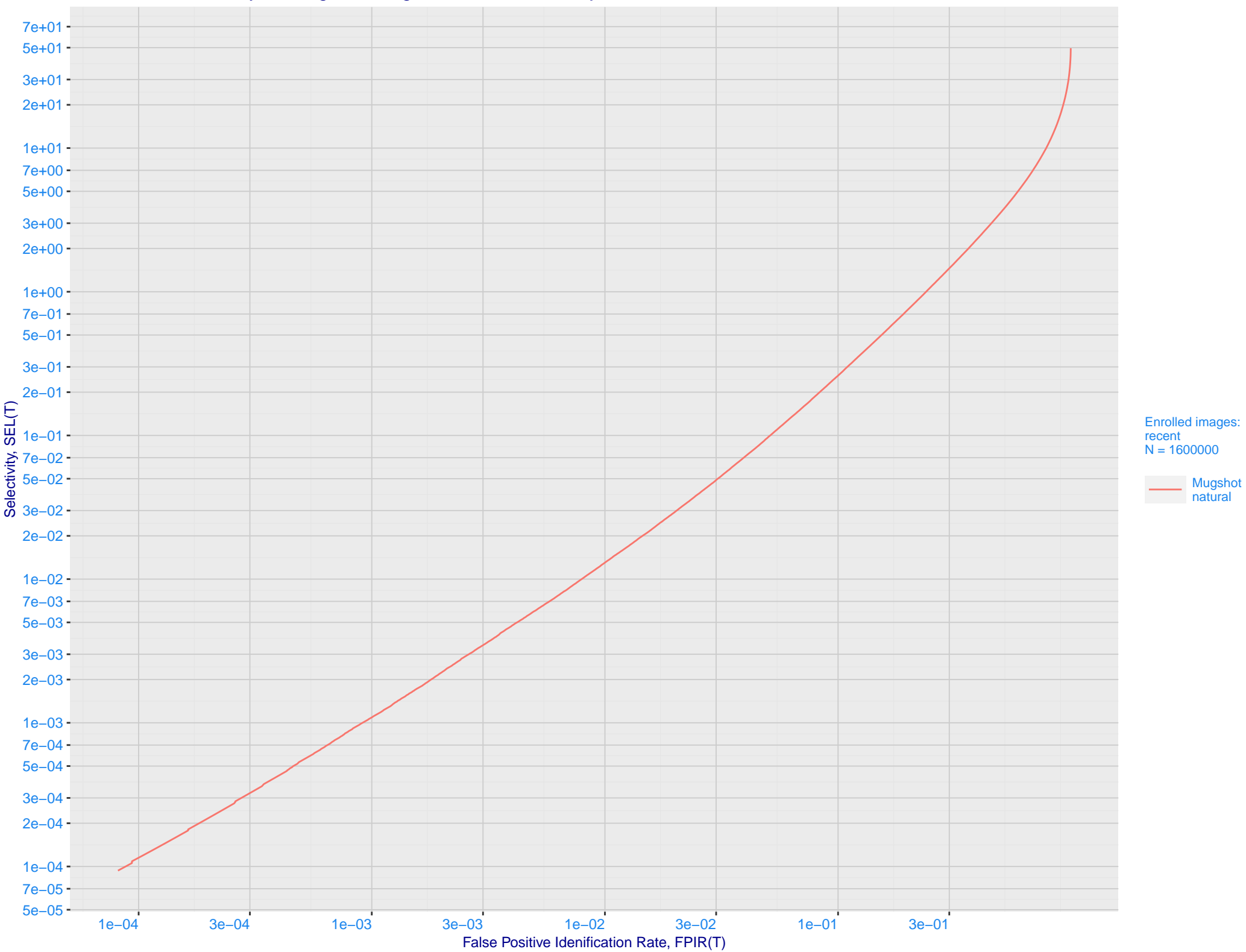
D: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



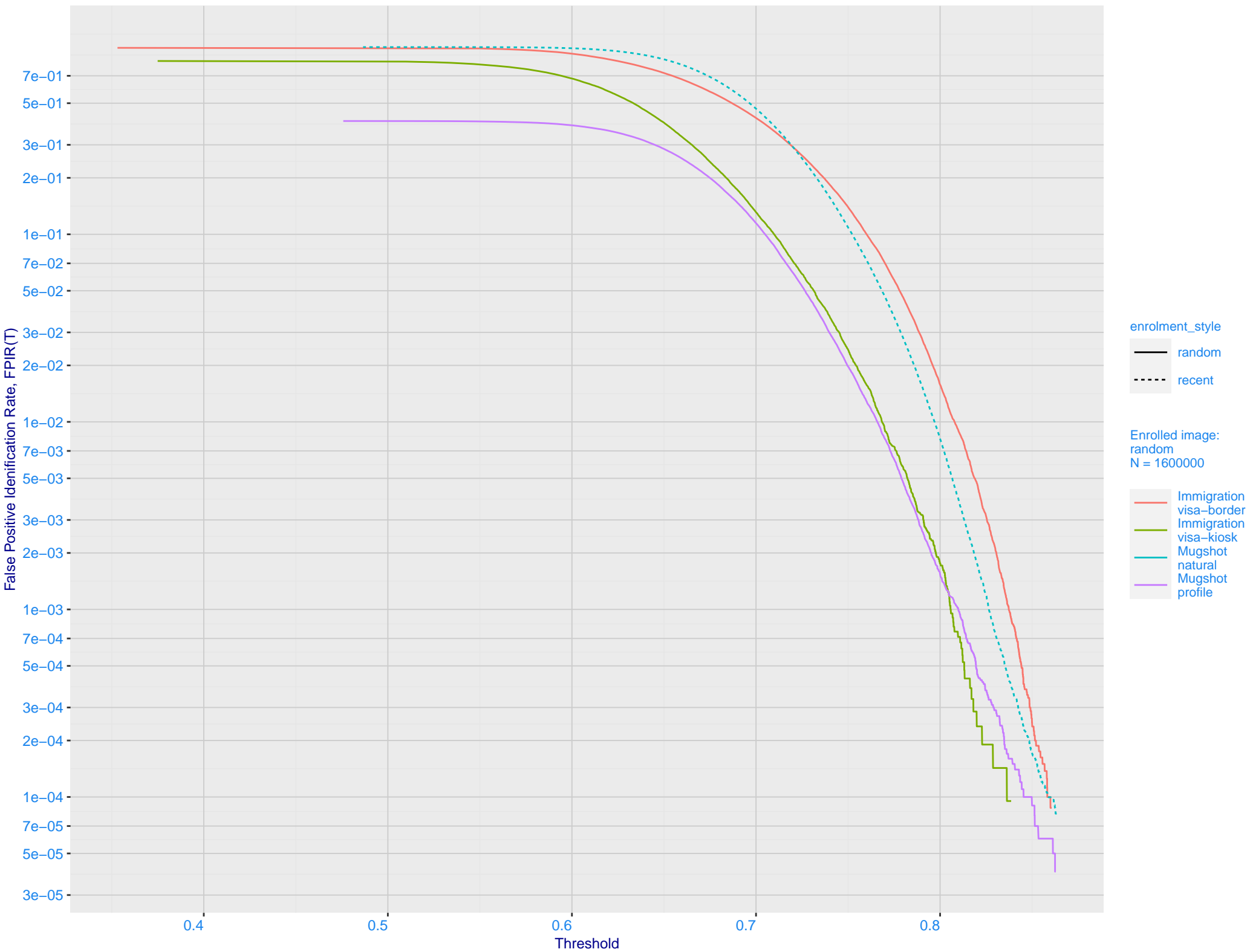
E: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



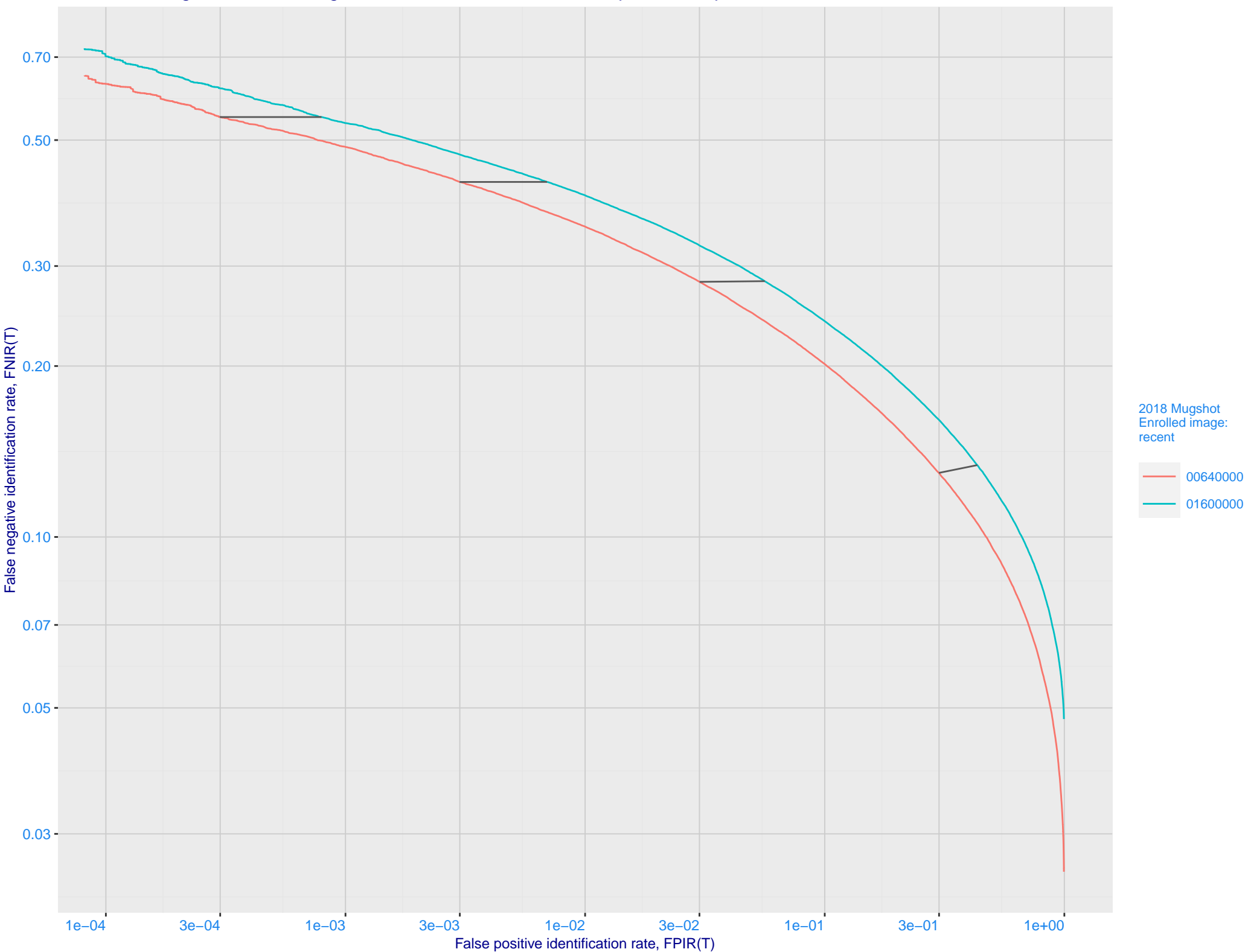
F: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



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

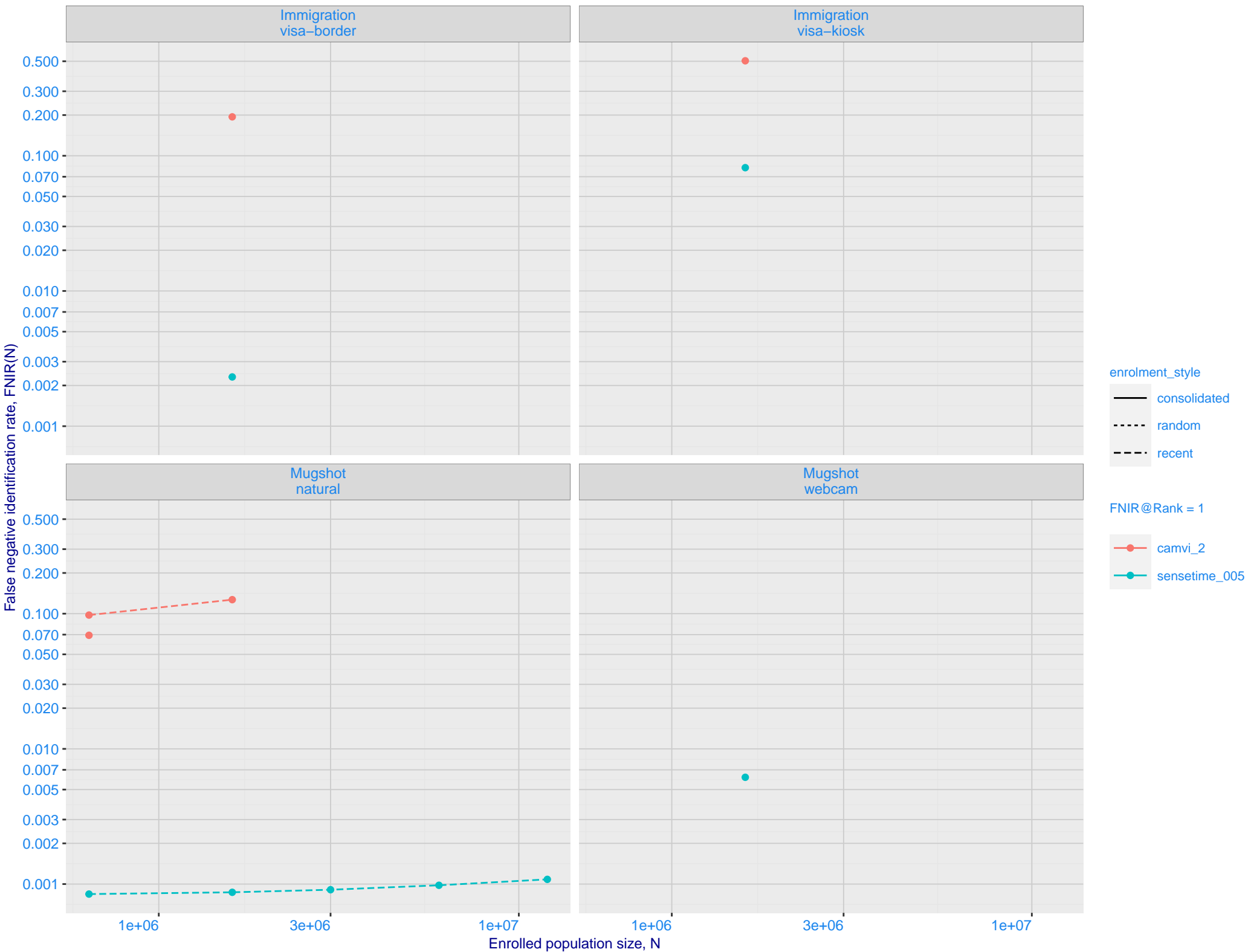


H: DET for Mugshot natural images and various N. Links connect points of equal threshold.

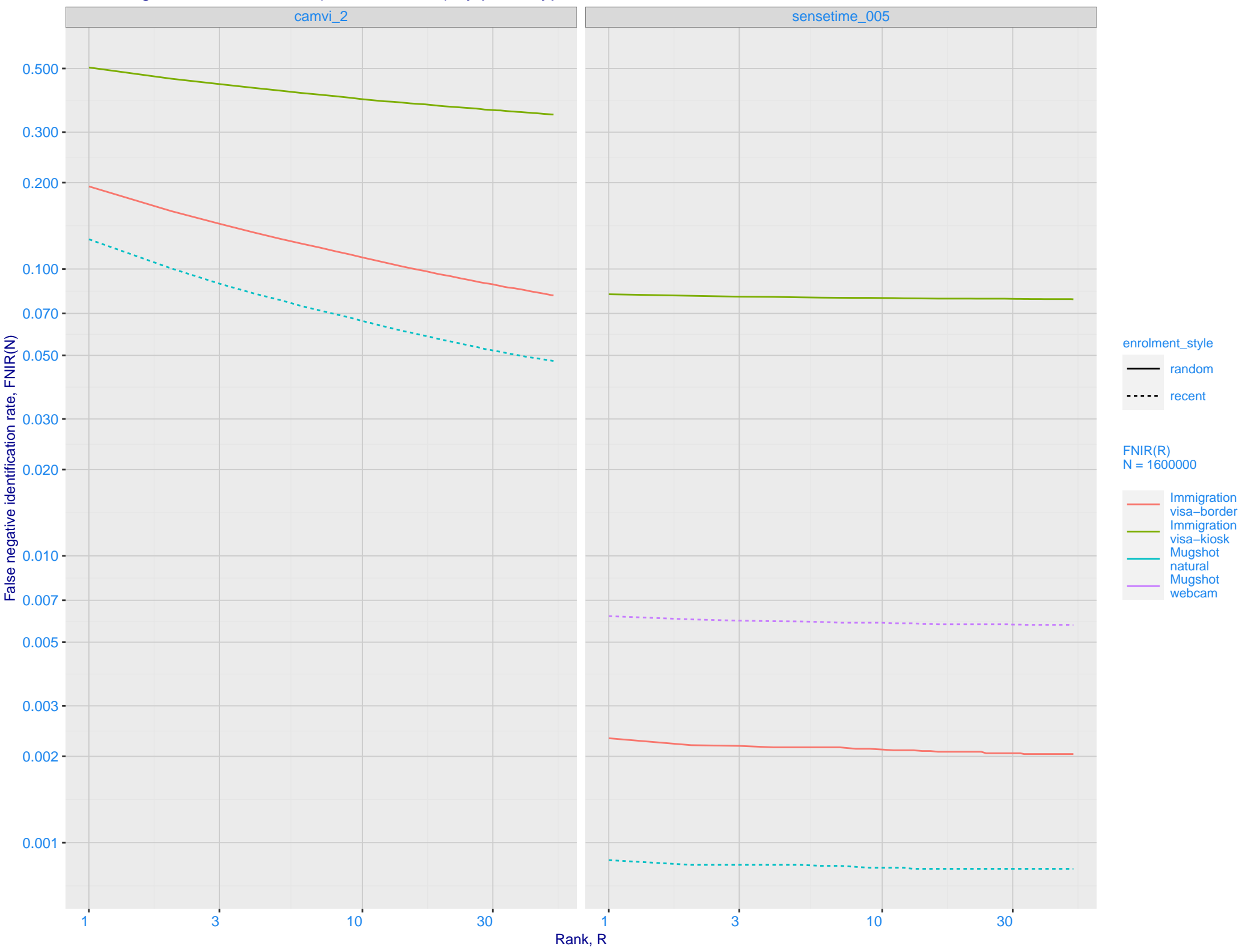




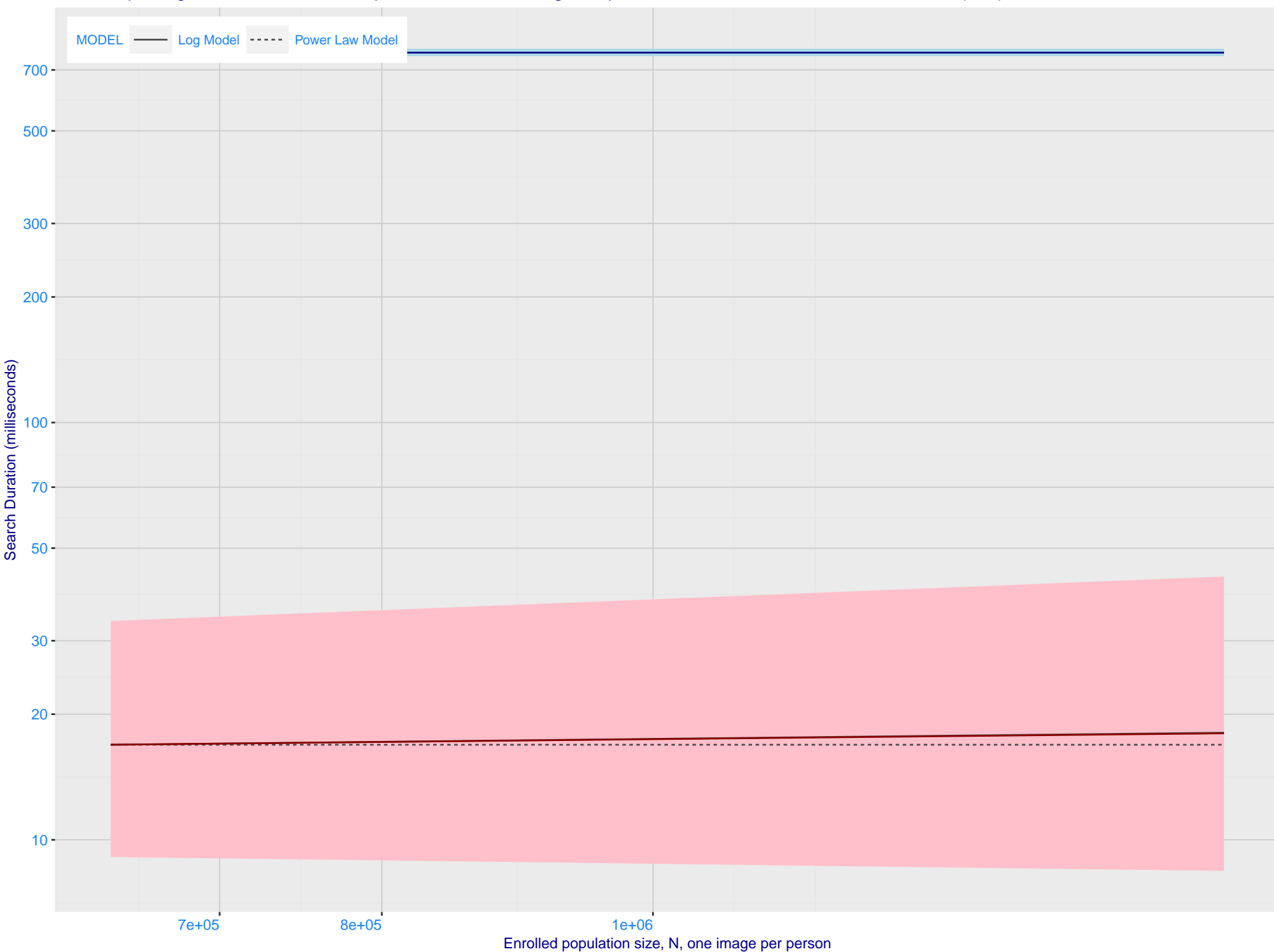
I: Investigational mode: FNIR(N, 1, 0) vs. most accurate (sensetime\_005)



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

