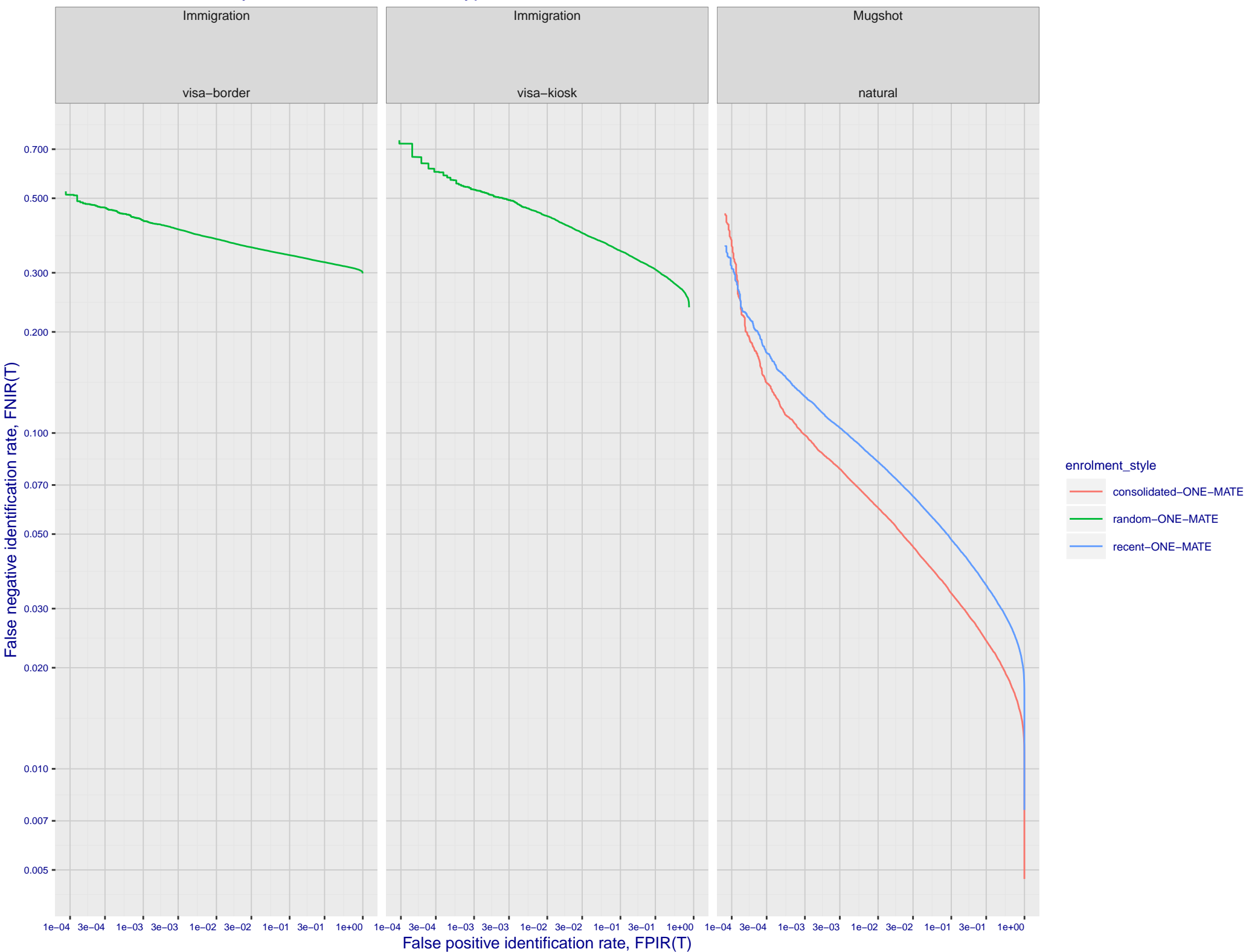A: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals

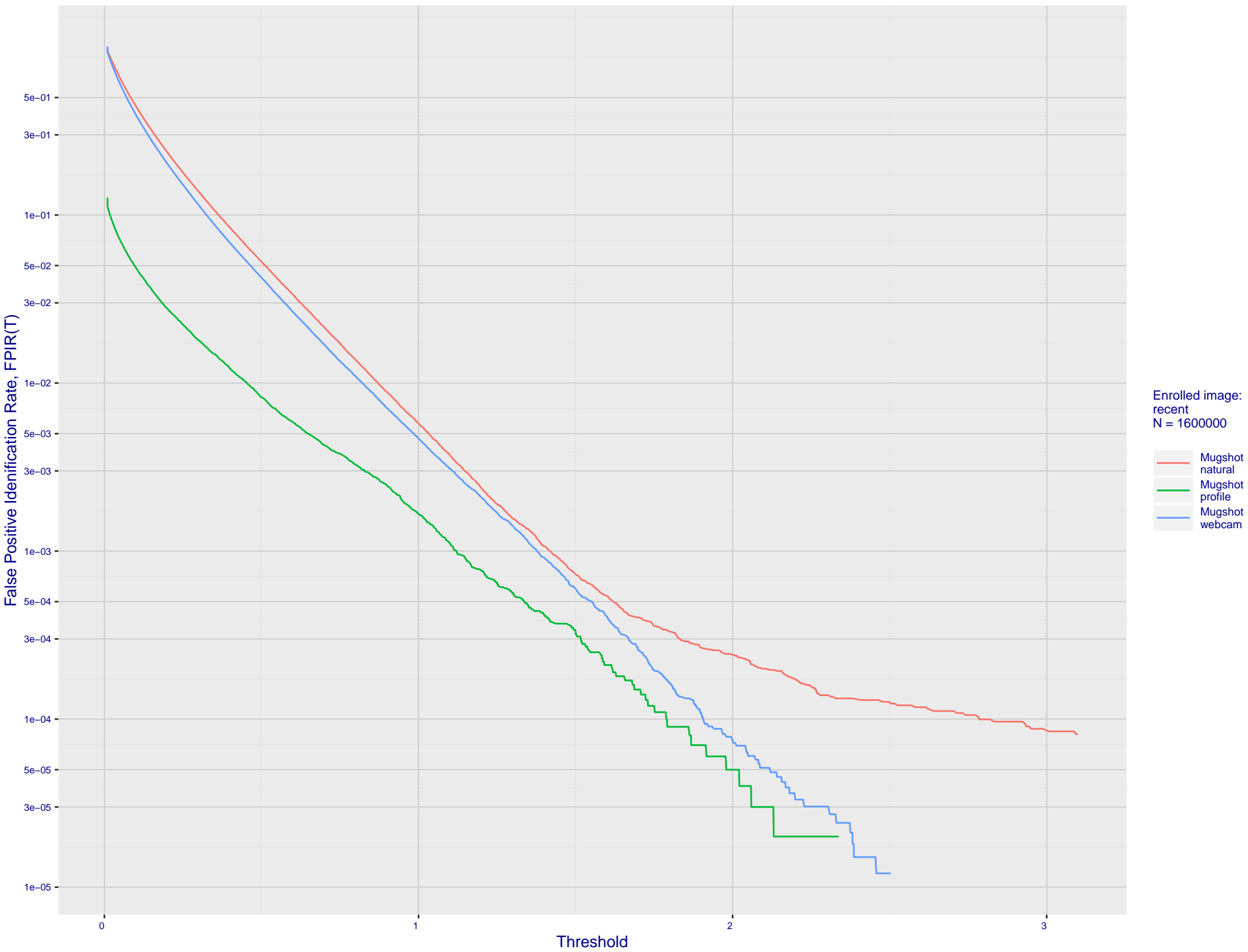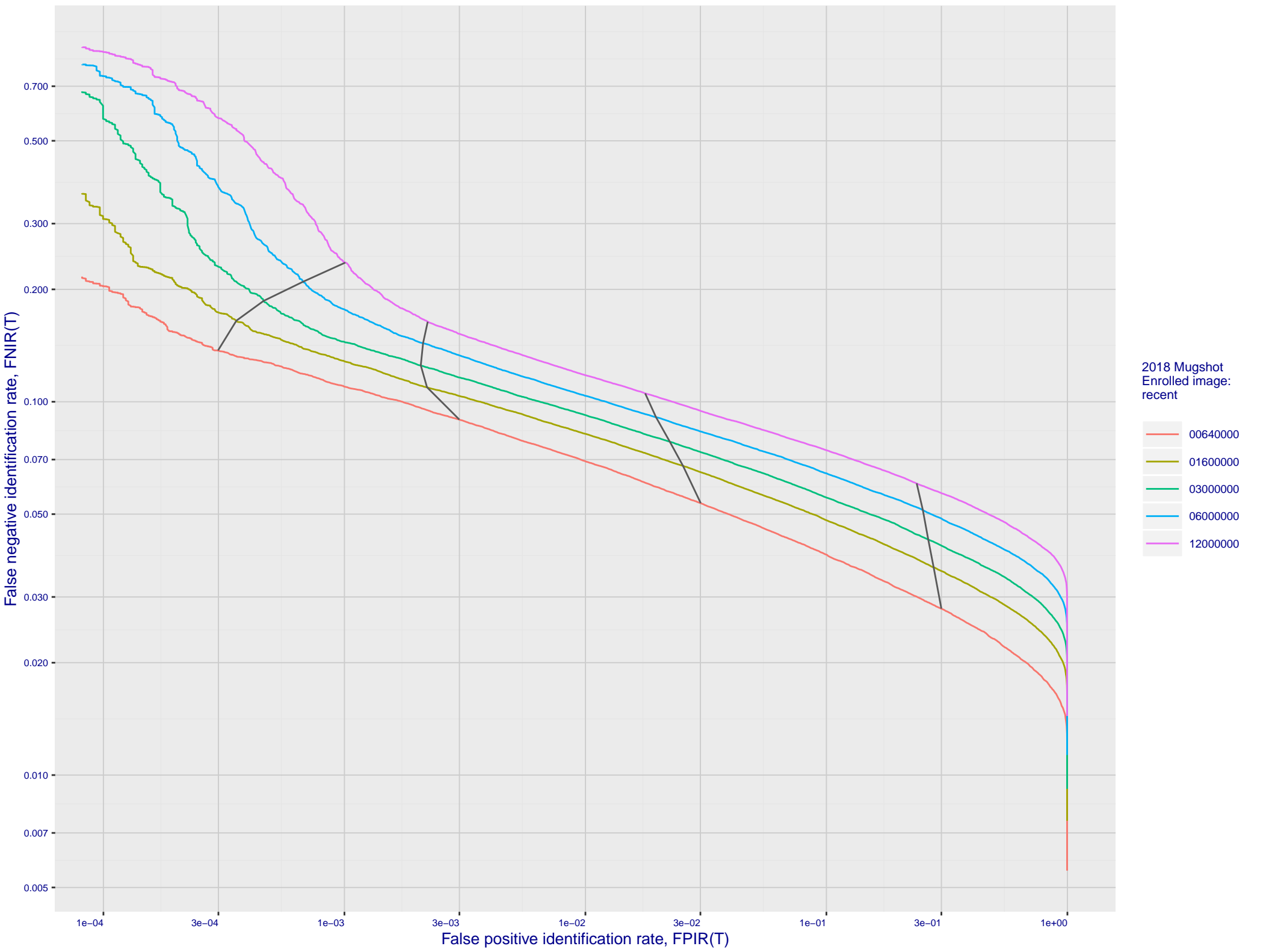B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images

C: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate
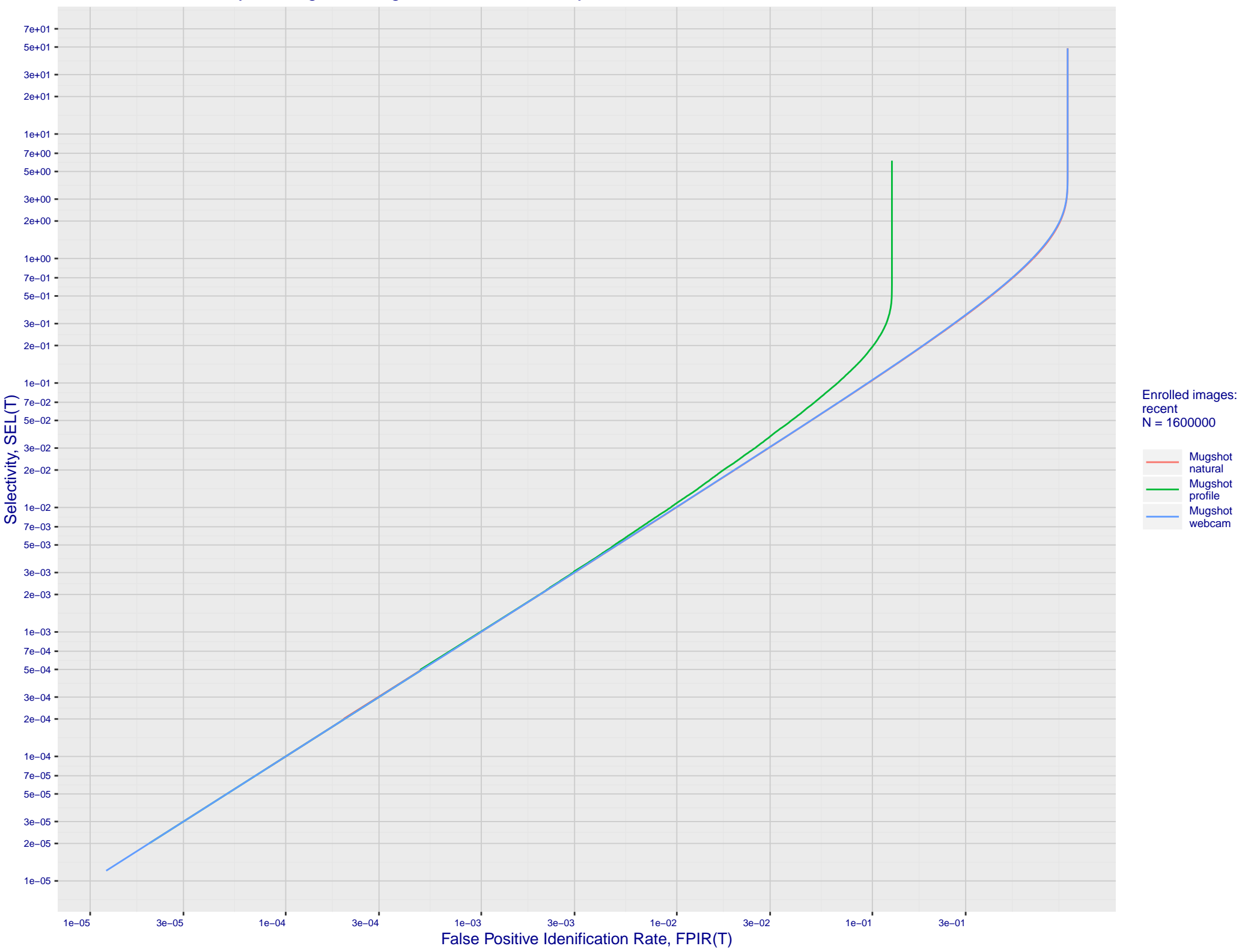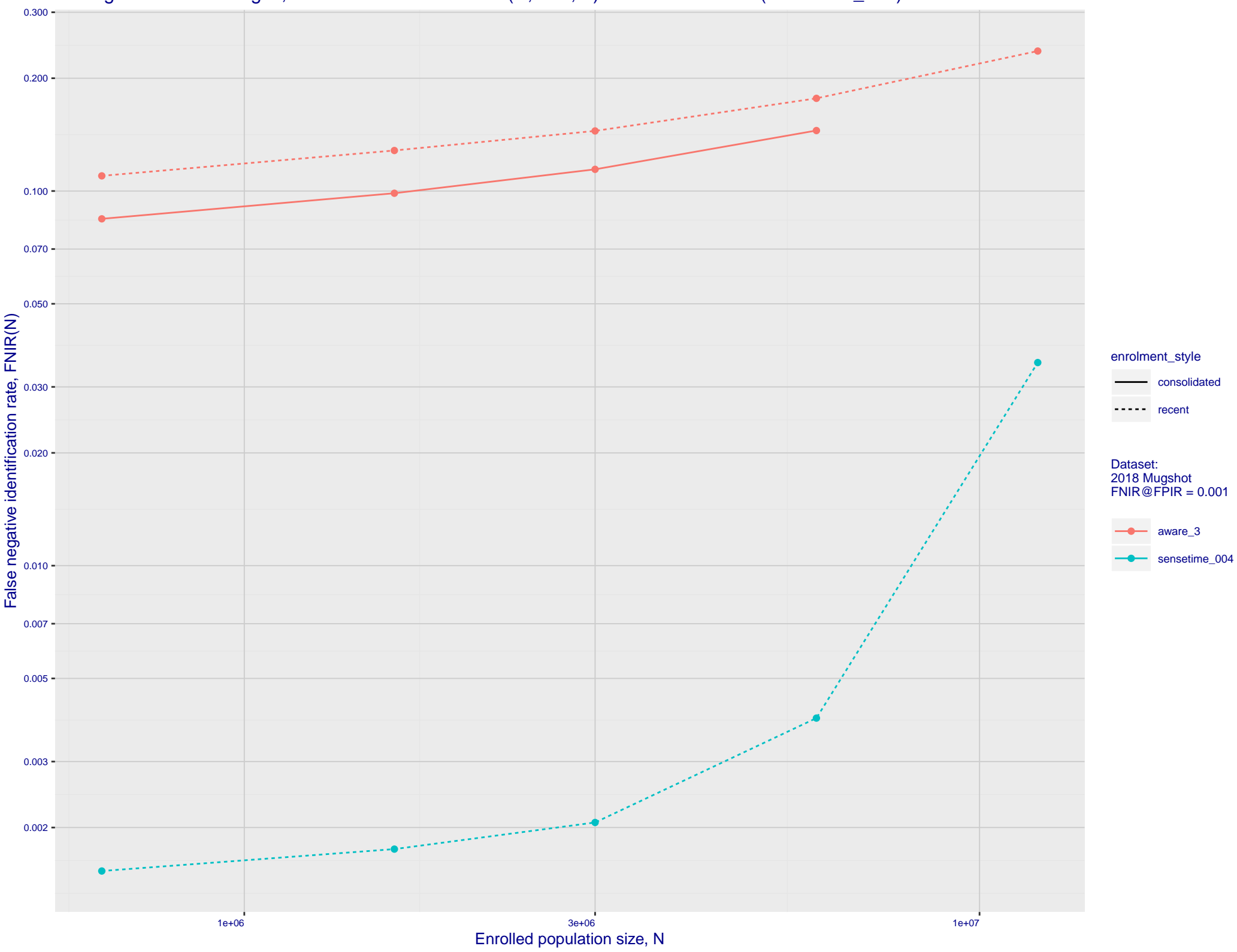
D: FPIR dependence on T by probe type for N = 1600000 subjects

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

False negative identification rate, FNIR(T)

False positive identification rate, FPIR(T)

2018 Mugshot
Enrolled image:
recent

00640000
01600000
03000000
06000000
12000000

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

G: Datasheet

Algorithm: aware_3

Developer: Aware

Submission Date: 2018_06_22

Template size: 2076 bytes

Template time (2.5 percentile): 676 msec

Template time (median): 701 msec

Template time (97.5 percentile): 869 msec

Frontal mugshot investigation rank 167 –– FNIR(1600000, 0, 1) = 0.0306 vs. lowest 0.0010 from sensetime_004

natural investigation rank 161 –– FNIR(1600000, 0, 1) = 0.0896 vs. lowest 0.0067 from sensetime_003

natural investigation rank 279 –– FNIR(1600000, 0, 1) = 0.9525 vs. lowest 0.0492 from paravision_005

natural investigation rank 279 –– FNIR(1600000, 0, 1) = 0.9525 vs. lowest 0.0492 from paravision_005

natural investigation rank 88 –– FNIR(1600000, 0, 1) = 0.3159 vs. lowest 0.0014 from visionlabs_009

natural investigation rank 80 –– FNIR(1600000, 0, 1) = 0.2900 vs. lowest 0.0694 from cib_000

Frontal mugshot identification rank 139 –– FNIR(1600000, T, L+1) = 0.1283 vs. lowest 0.0018 from sensetime_004

natural identification rank 144 –– FNIR(1600000, T, L+1) = 0.2983 vs. lowest 0.0122 from sensetime_003

natural identification rank 69 –– FNIR(1600000, T, L+1) = 0.9787 vs. lowest 0.1020 from sensetime_004

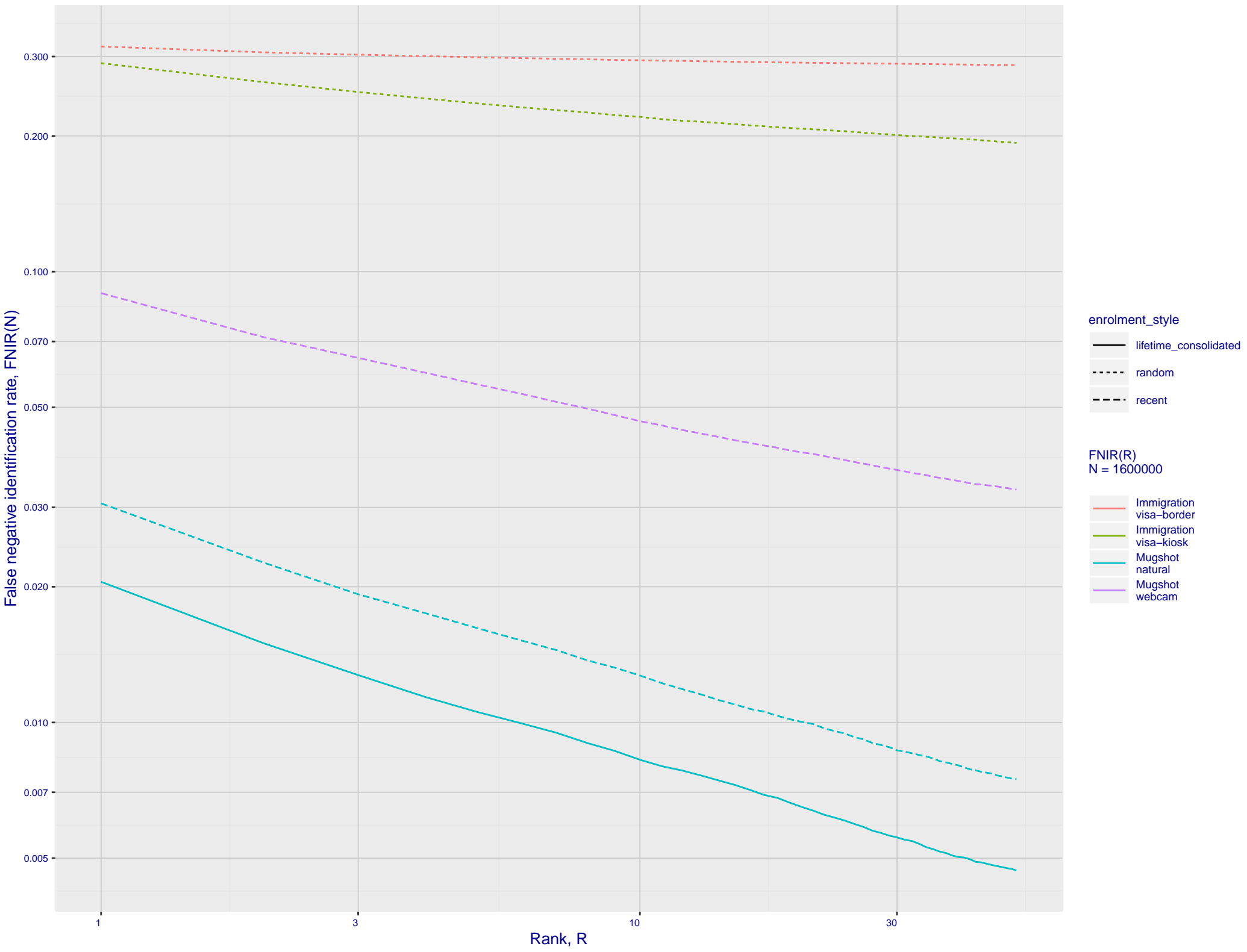natural identification rank 76 –– FNIR(1600000, T, L+1) = 0.4284 vs. lowest 0.0059 from sensetime_004

natural identification rank 53 –– FNIR(1600000, T, L+1) = 0.5310 vs. lowest 0.1129 from visionlabs_009

H: Investigational mode: FNIR(N, 1, 0) vs. most accurate (yitu_4)
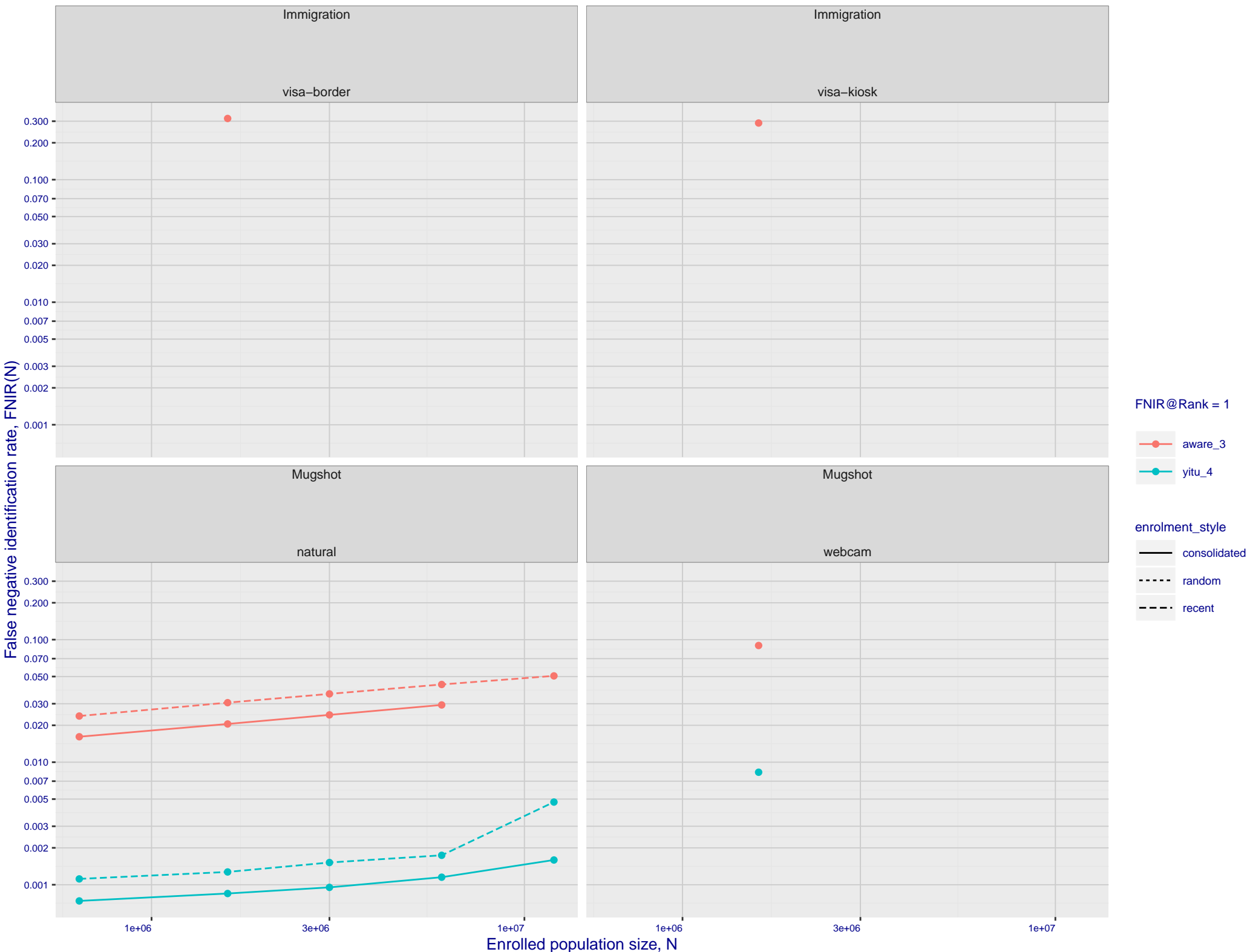
I: Investigational mode: FNIR(1600000, R, 0) by probe type

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