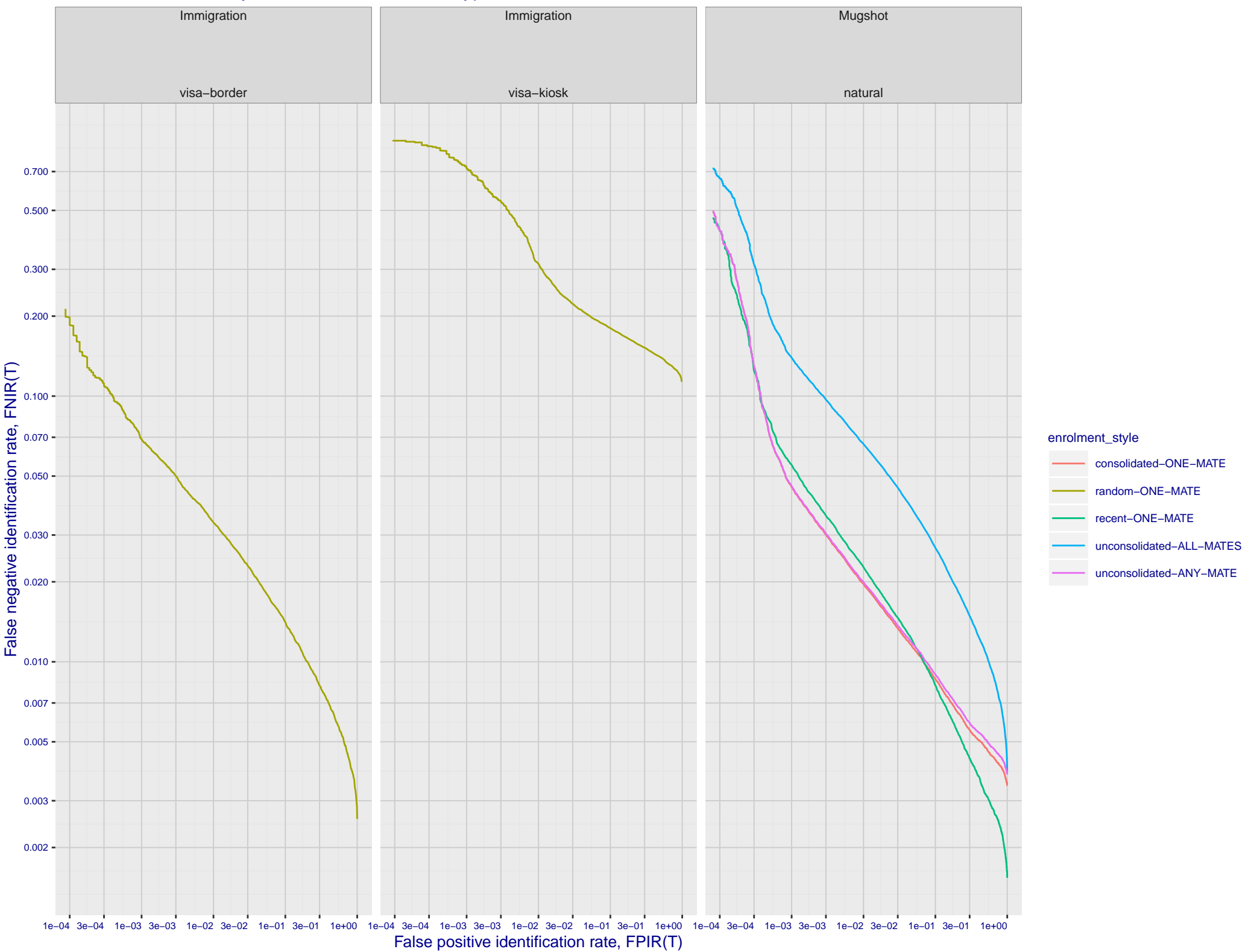
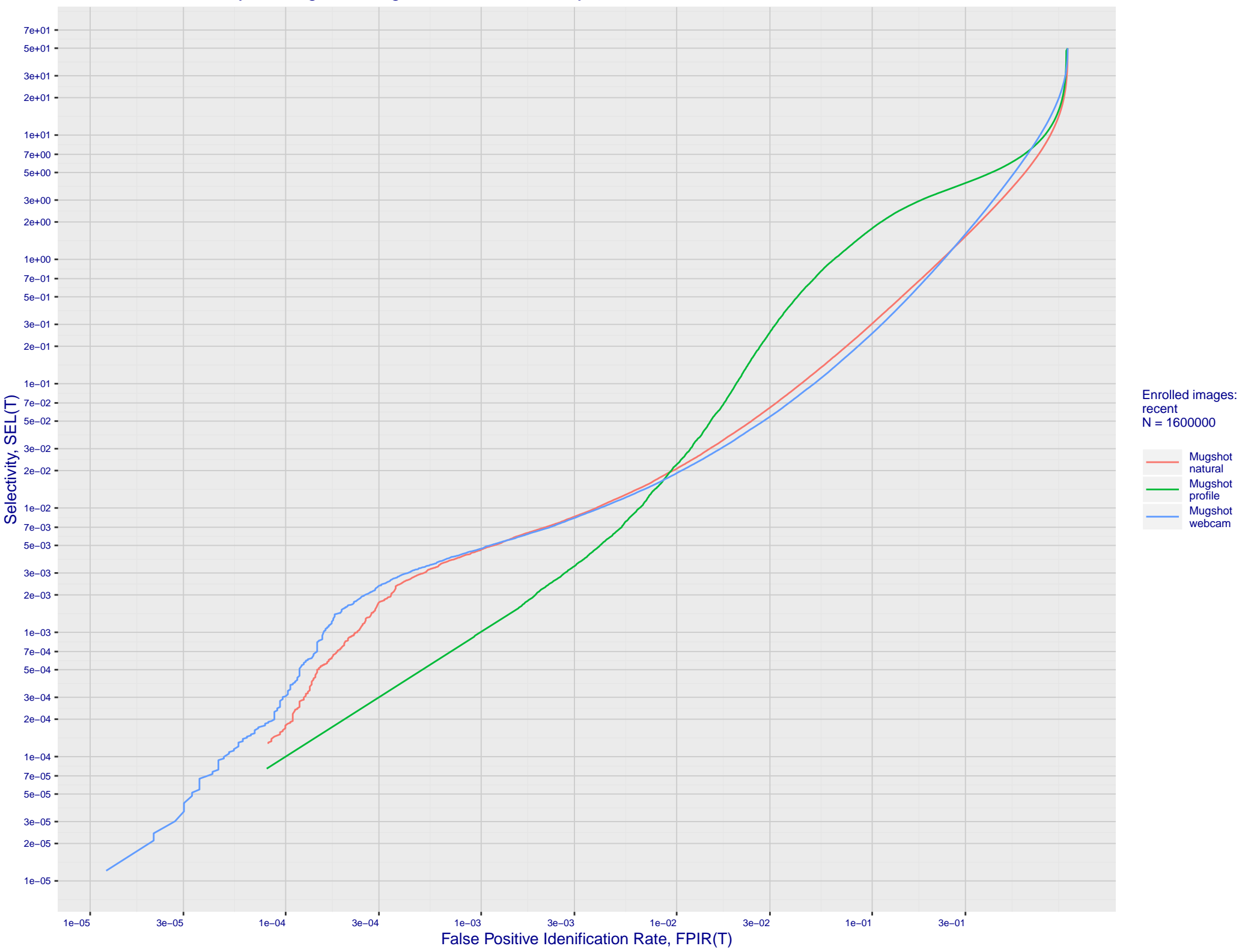


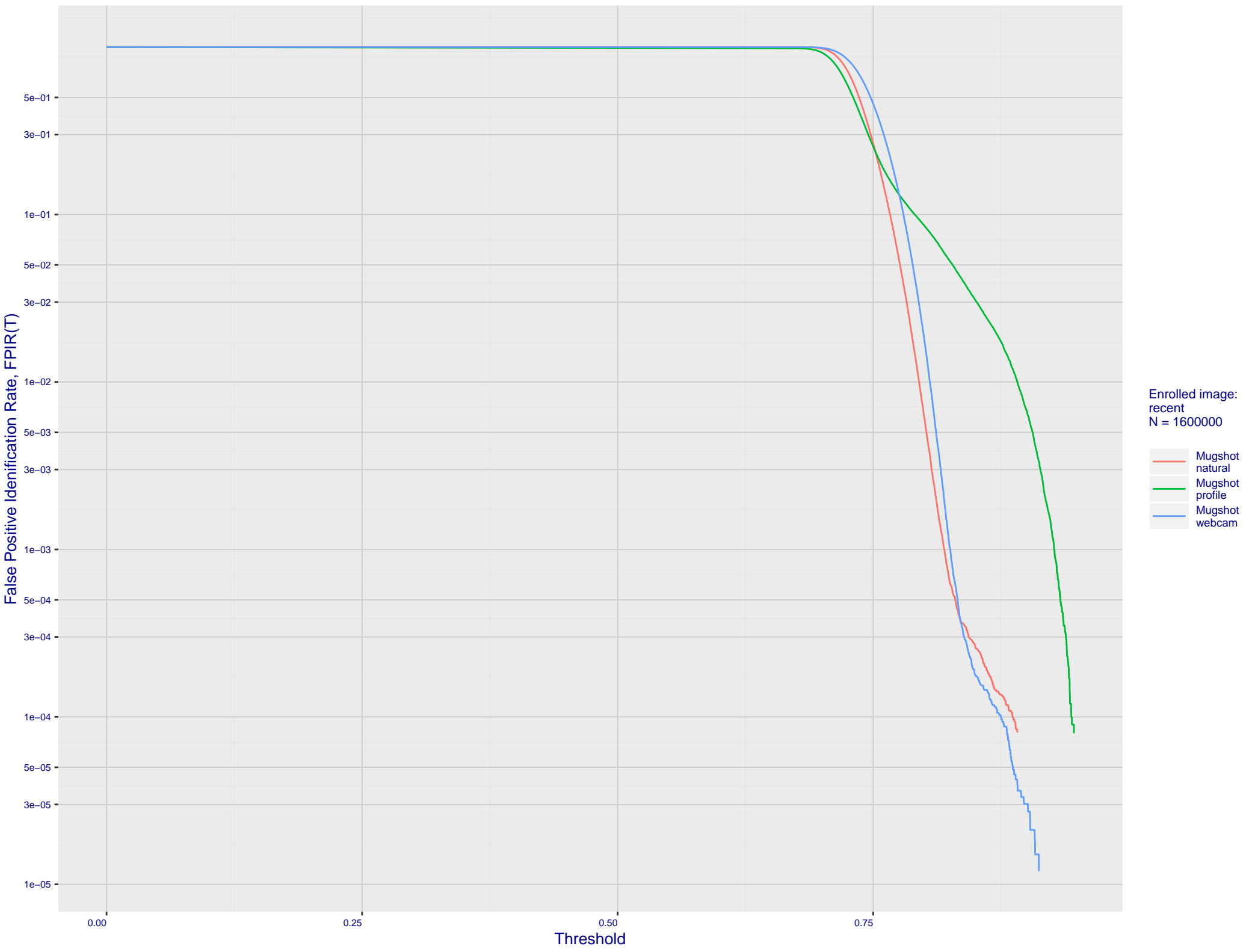
A: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals



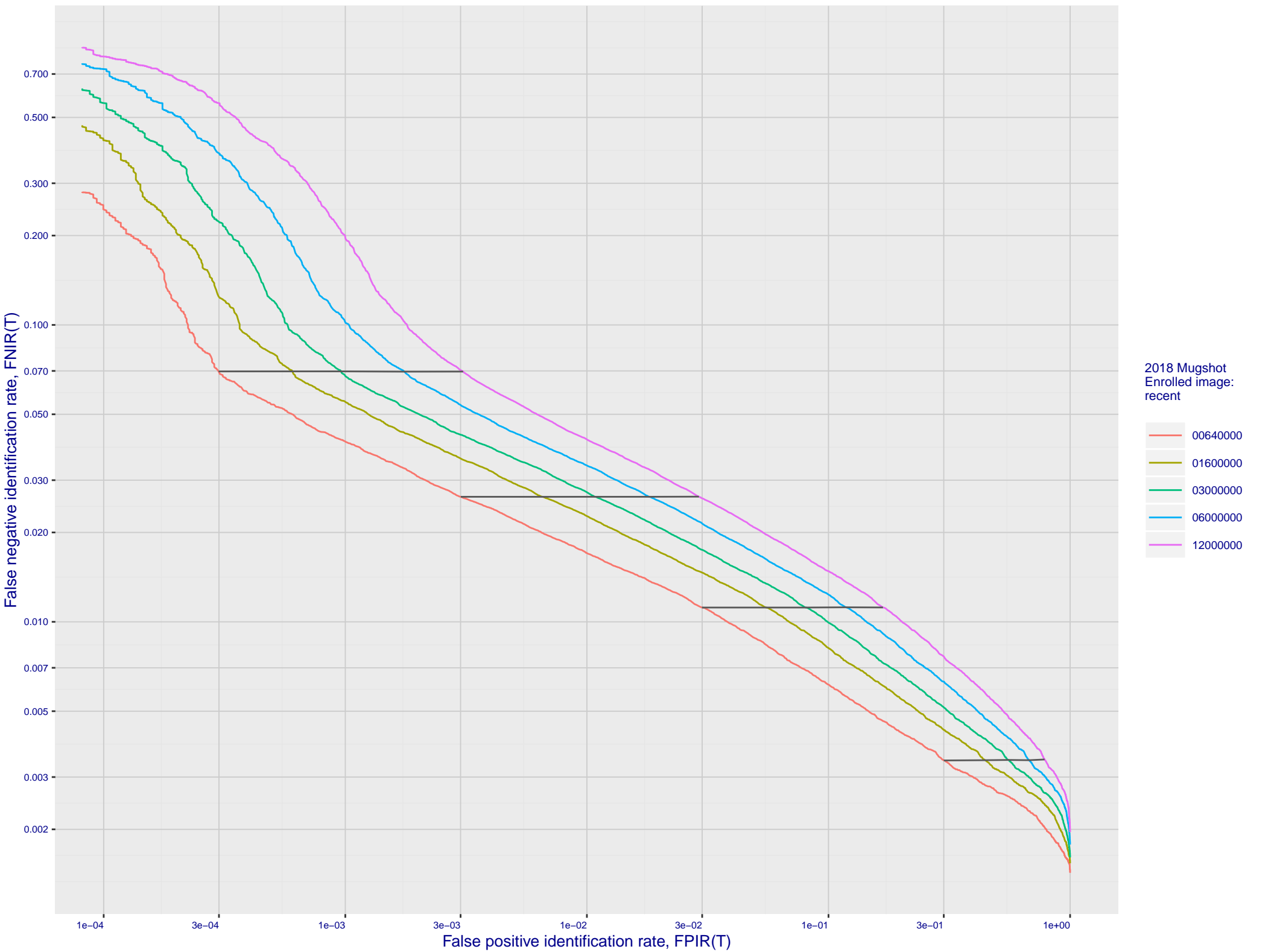
C: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate



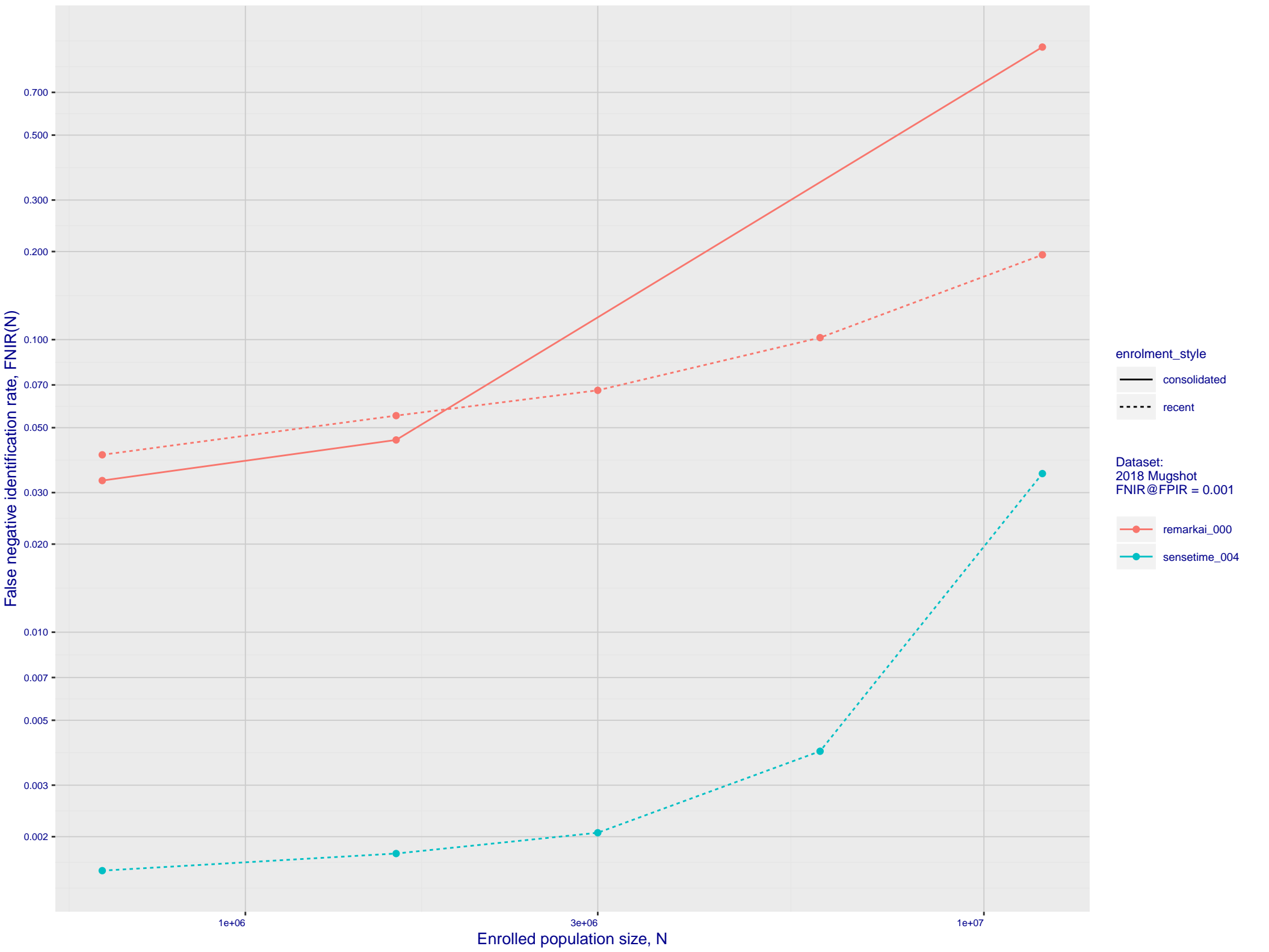
D: FPIR dependence on T by probe type for N = 1600000 subjects



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



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



G: Datasheet

Algorithm: remarkai_000

Developer: Remark Holdings

Submission Date: 2019_06_12

Template size: 2048 bytes

Template time (2.5 percentile): 632 msec

Template time (median): 650 msec

Template time (97.5 percentile): 883 msec

Frontal mugshot investigation rank 46 --- FNIR(1600000, 0, 1) = 0.0034 vs. lowest 0.0010 from sensetime_004

natural investigation rank 51 --- FNIR(1600000, 0, 1) = 0.0183 vs. lowest 0.0067 from sensetime_003

natural investigation rank 98 --- FNIR(1600000, 0, 1) = 0.5117 vs. lowest 0.0492 from paravision_005

natural investigation rank 98 --- FNIR(1600000, 0, 1) = 0.5117 vs. lowest 0.0492 from paravision_005

natural investigation rank 40 --- FNIR(1600000, 0, 1) = 0.0076 vs. lowest 0.0014 from visionlabs_009

natural investigation rank 49 --- FNIR(1600000, 0, 1) = 0.1484 vs. lowest 0.0694 from cib_000

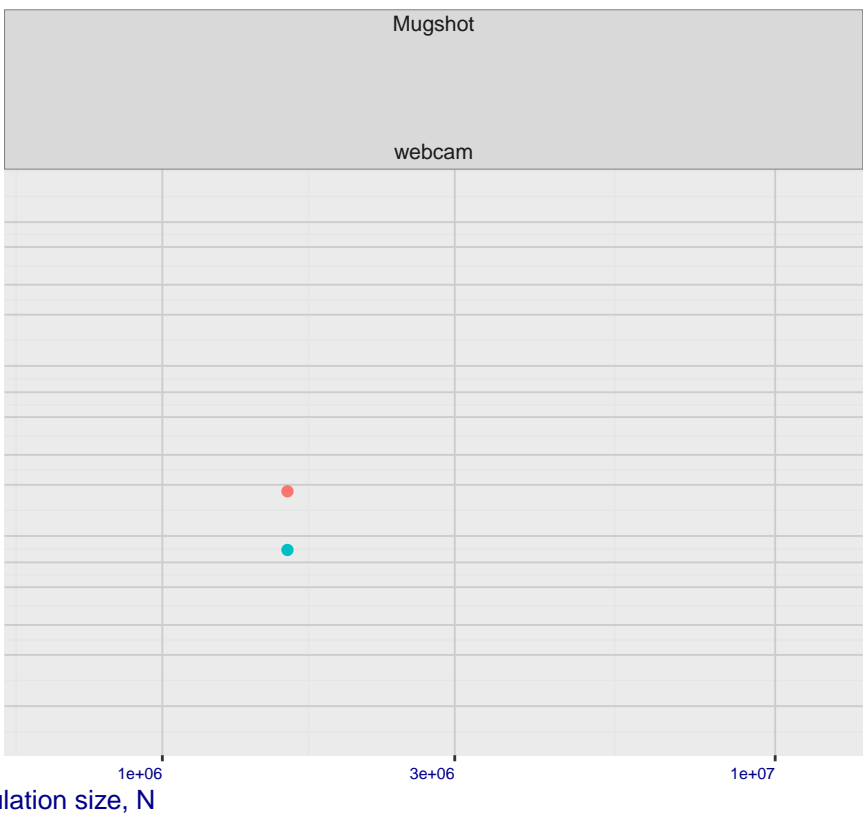
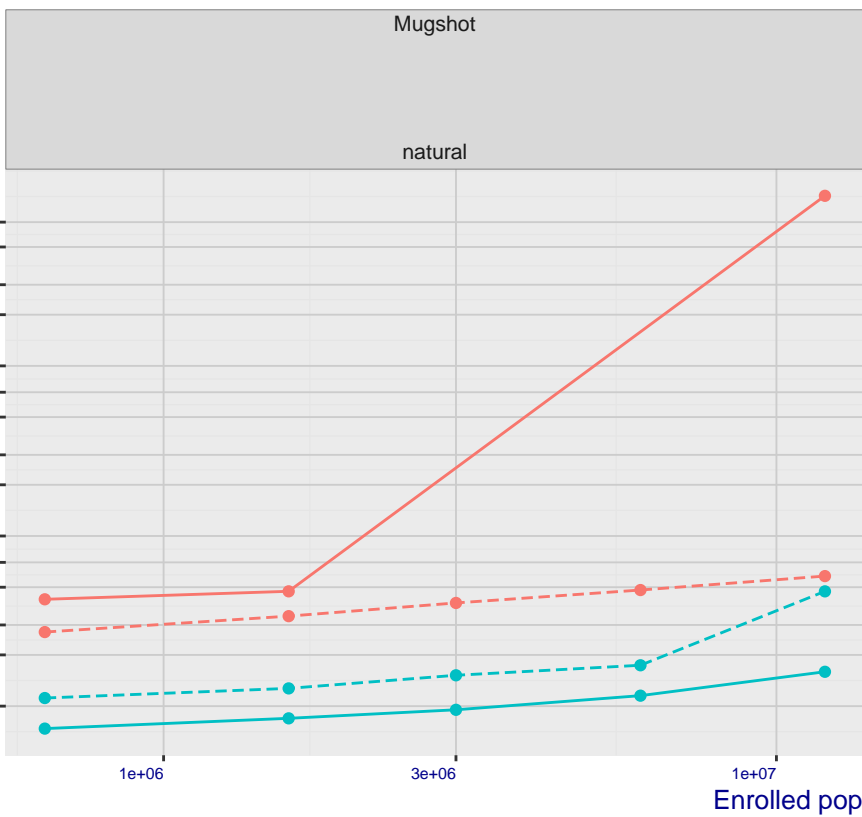
Frontal mugshot identification rank 83 --- FNIR(1600000, T, L+1) = 0.0550 vs. lowest 0.0018 from sensetime_004

natural identification rank 71 --- FNIR(1600000, T, L+1) = 0.1193 vs. lowest 0.0122 from sensetime_003

natural identification rank 116 --- FNIR(1600000, T, L+1) = 0.9978 vs. lowest 0.1020 from sensetime_004

natural identification rank 44 --- FNIR(1600000, T, L+1) = 0.0690 vs. lowest 0.0059 from sensetime_004

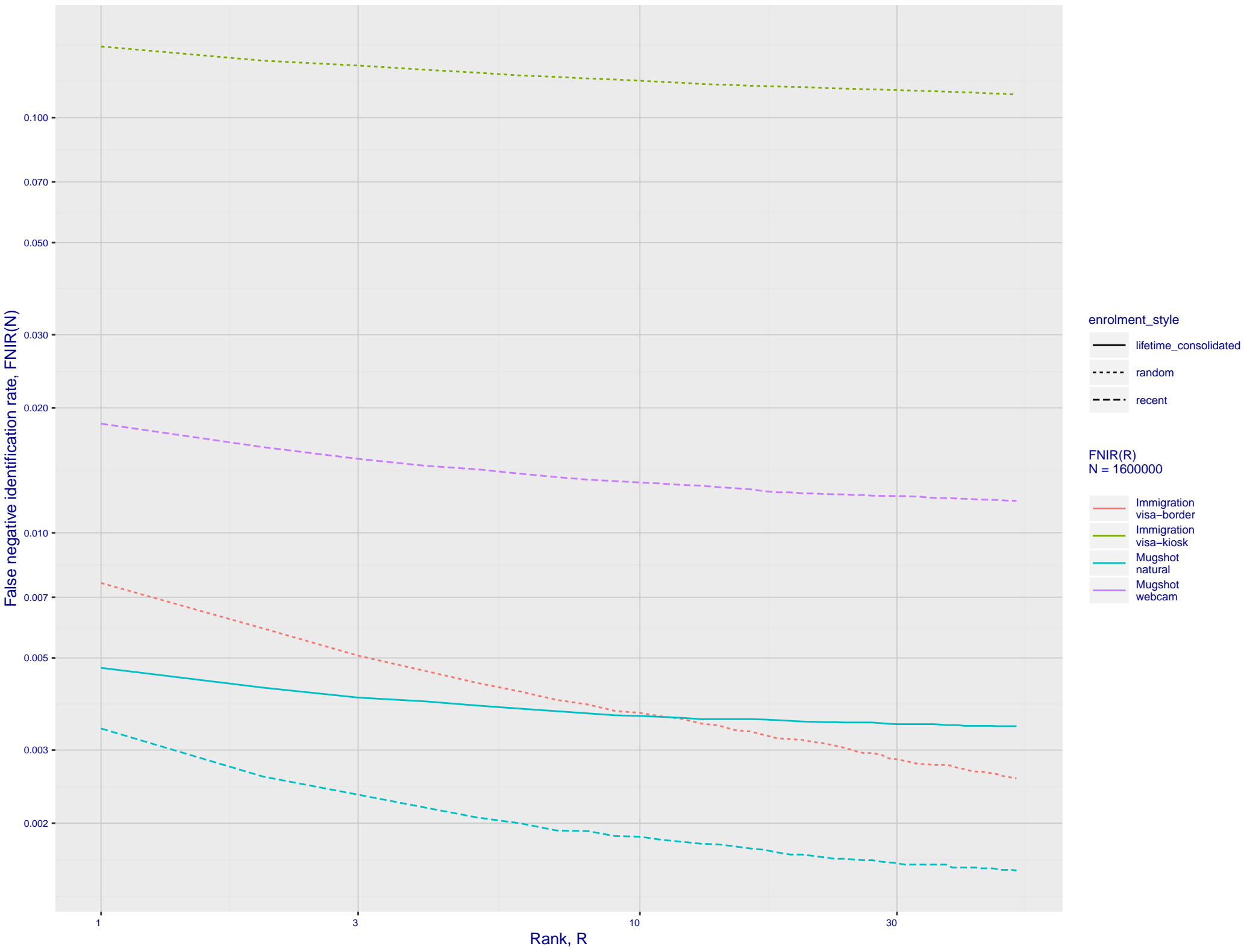
natural identification rank 63 --- FNIR(1600000, T, L+1) = 0.7303 vs. lowest 0.1129 from visionlabs_009



| | |
|---------|--------------|
| — | consolidated |
| - - - - | random |
| - - - . | recent |

remarkai_000
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

