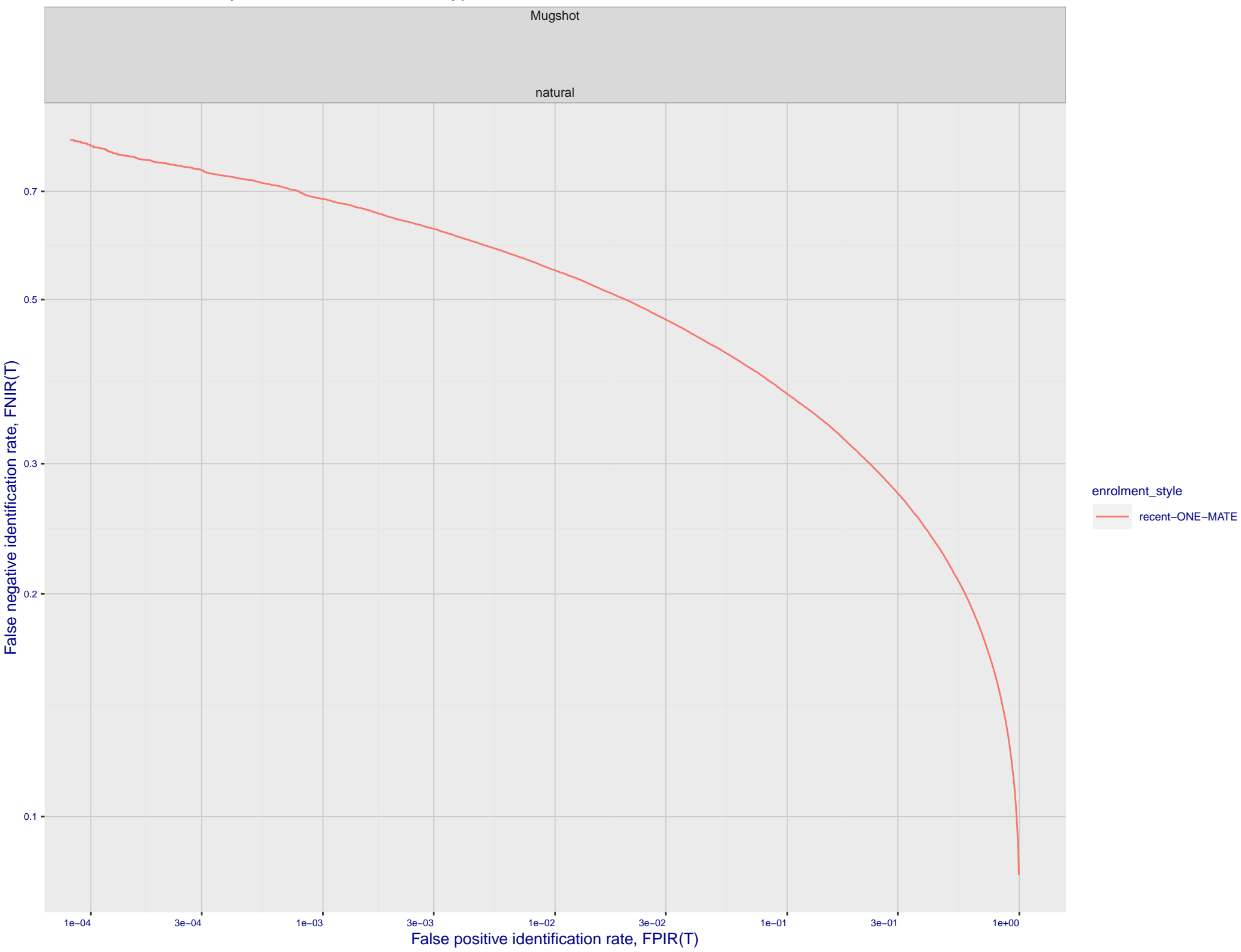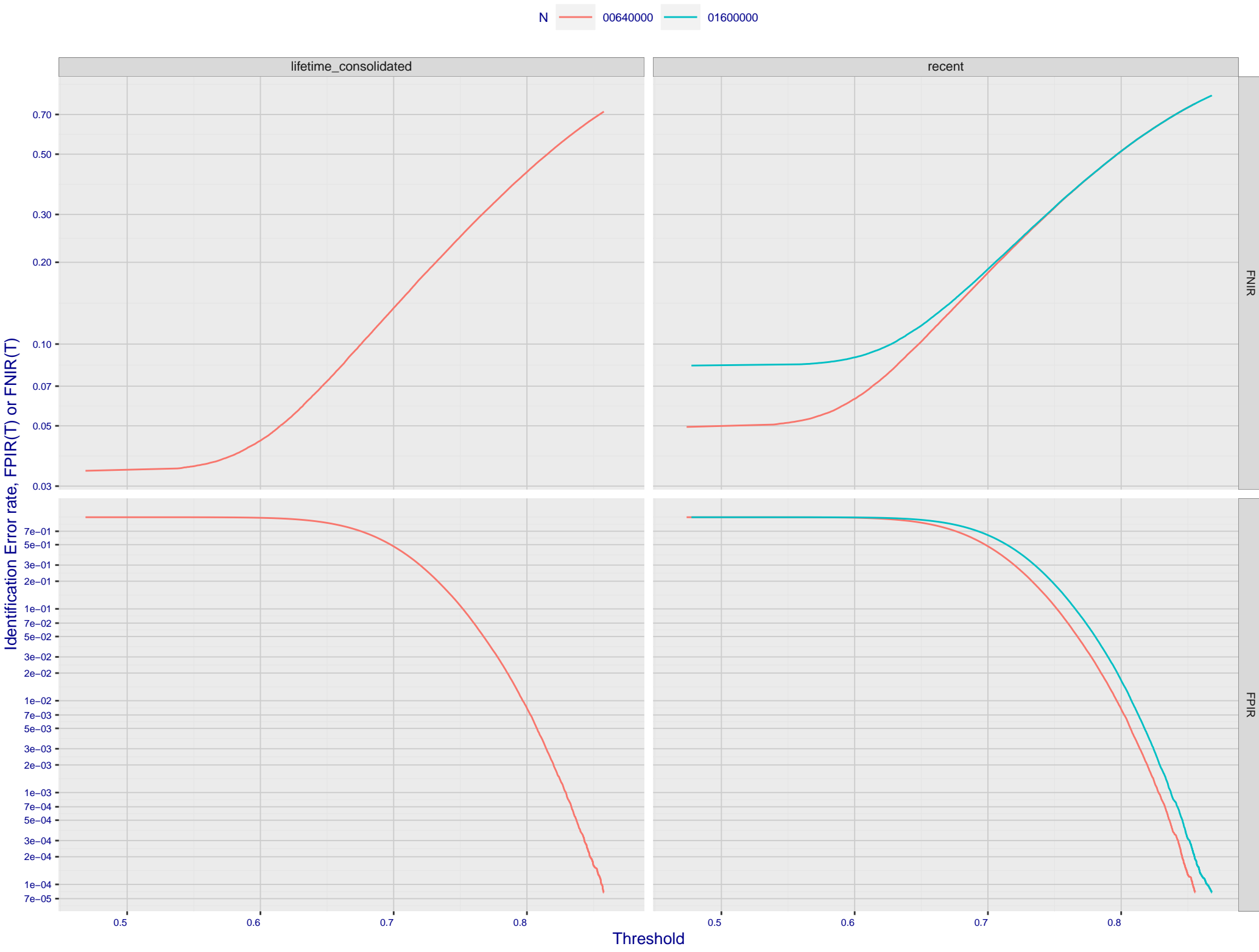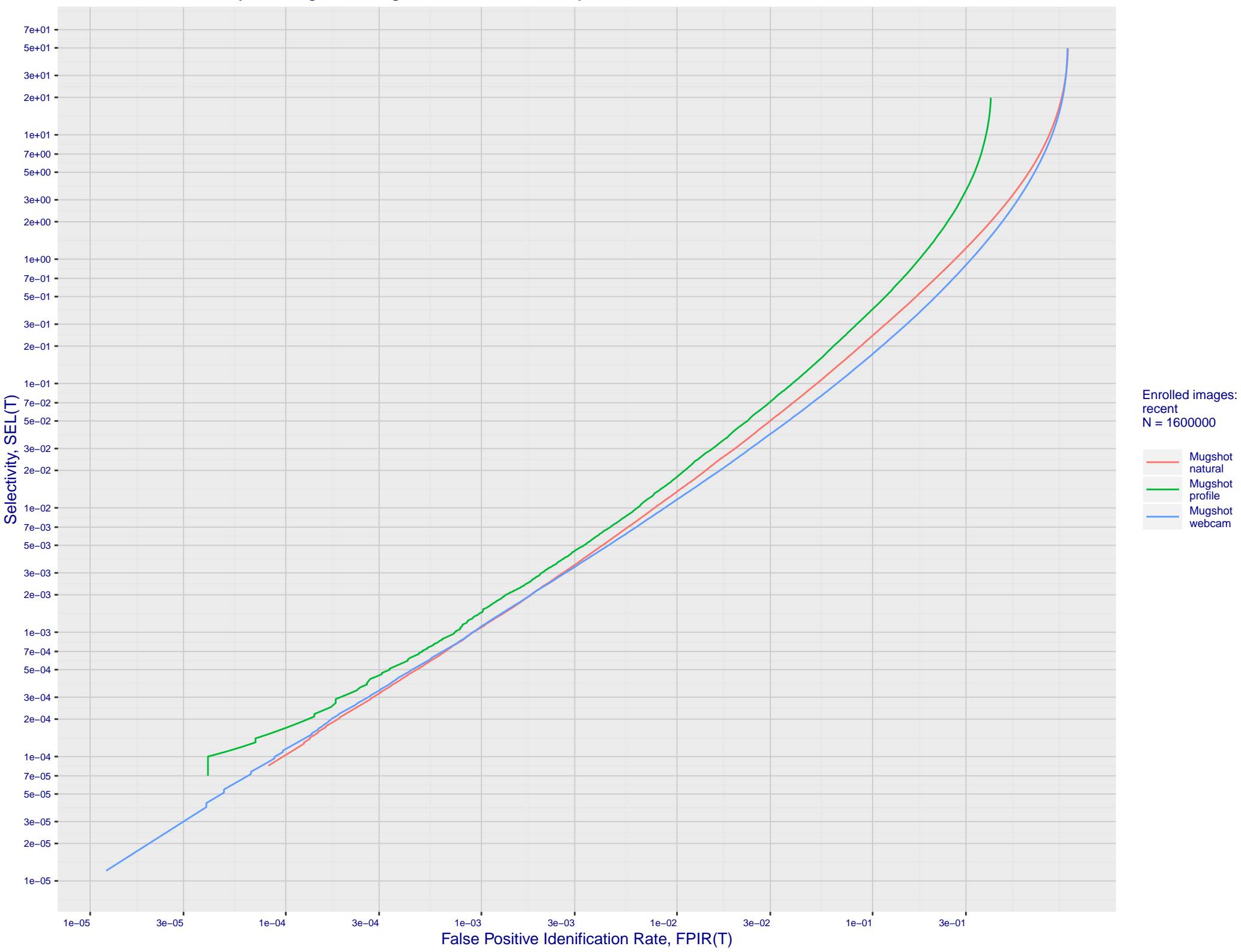A: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals
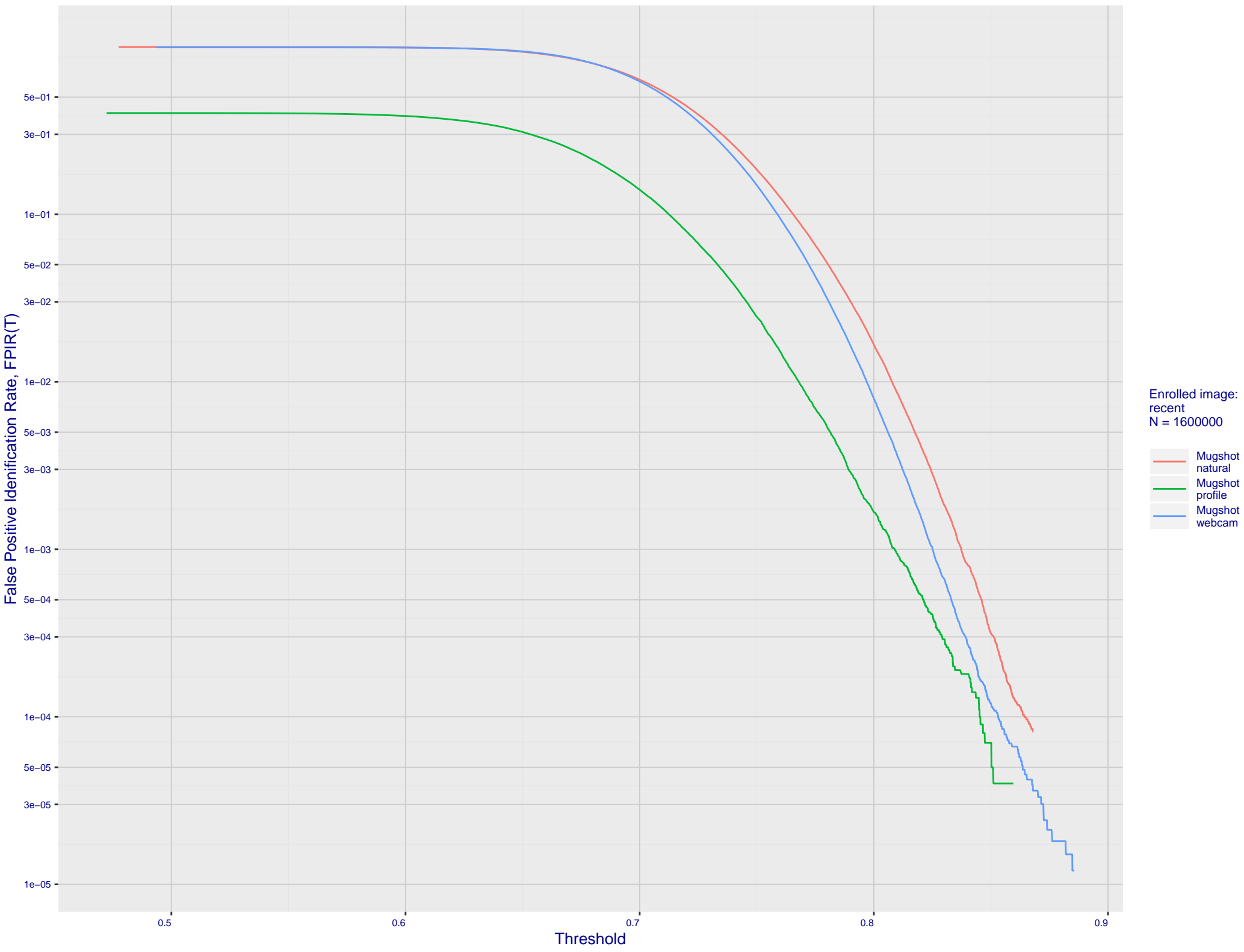
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images
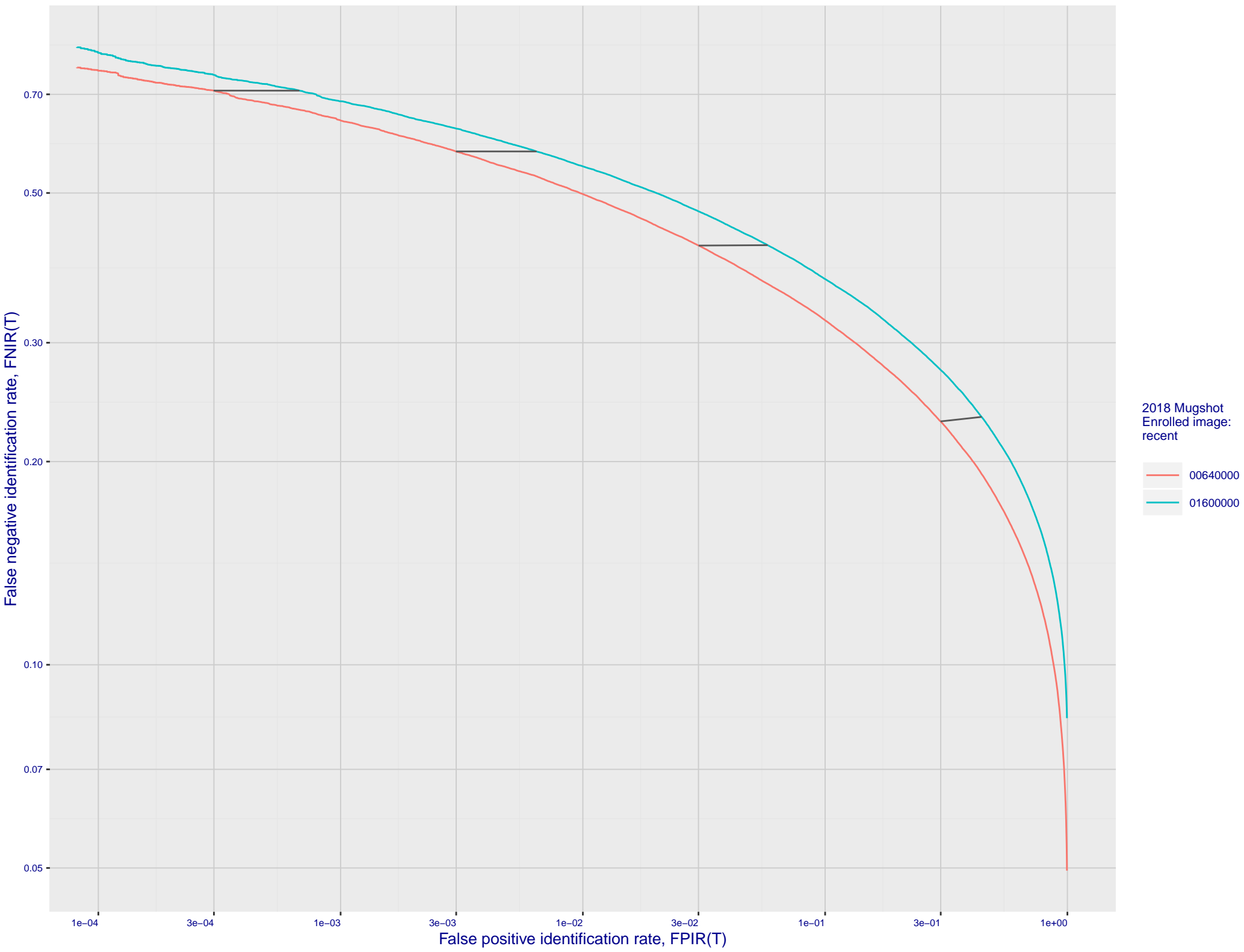
C: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate

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

False Positive Idenification Rate, FPIR(T)

Threshold

Enrolled image:
recent
N = 1600000

Mugshot
natural
Mugshot
profile
Mugshot
webcam

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

2018 Mugshot
Enrolled image:
recent

— 00640000
— 01600000

False negative identification rate, FNIR(T)

False positive identification rate, FPIR(T)

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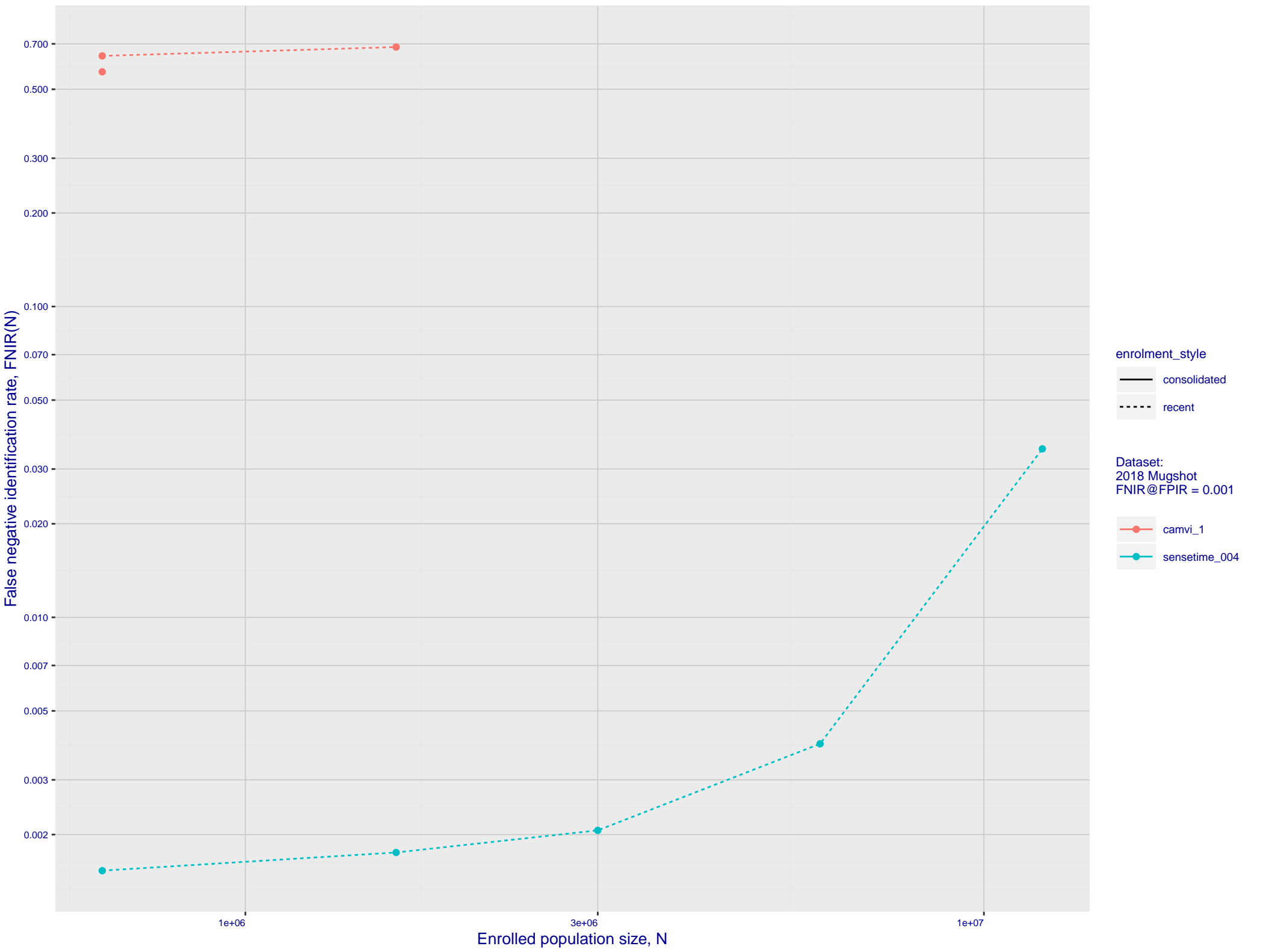
G: Datasheet

Algorithm: camvi_1

Developer: Camvi Technologies

Submission Date: 2018_02_16

Template size: 1024 bytes

Template time (2.5 percentile): 168 msec

Template time (median): 176 msec

Template time (97.5 percentile): 188 msec

Frontal mugshot investigation rank 231 –– FNIR(1600000, 0, 1) = 0.2247 vs. lowest 0.0010 from sensetime_004

natural investigation rank 192 –– FNIR(1600000, 0, 1) = 0.3371 vs. lowest 0.0067 from sensetime_003

natural investigation rank 211 –– FNIR(1600000, 0, 1) = 0.8639 vs. lowest 0.0492 from paravision_005

natural investigation rank 211 –– FNIR(1600000, 0, 1) = 0.8639 vs. lowest 0.0492 from paravision_005

Frontal mugshot identification rank 223 –– FNIR(1600000, T, L+1) = 0.6836 vs. lowest 0.0018 from sensetime_004

natural identification rank 187 –– FNIR(1600000, T, L+1) = 0.7694 vs. lowest 0.0122 from sensetime_003

natural identification rank 60 –– FNIR(1600000, T, L+1) = 0.9718 vs. lowest 0.1020 from sensetime_004

H: Investigational mode: FNIR(N, 1, 0) vs. most accurate (yitu_4)
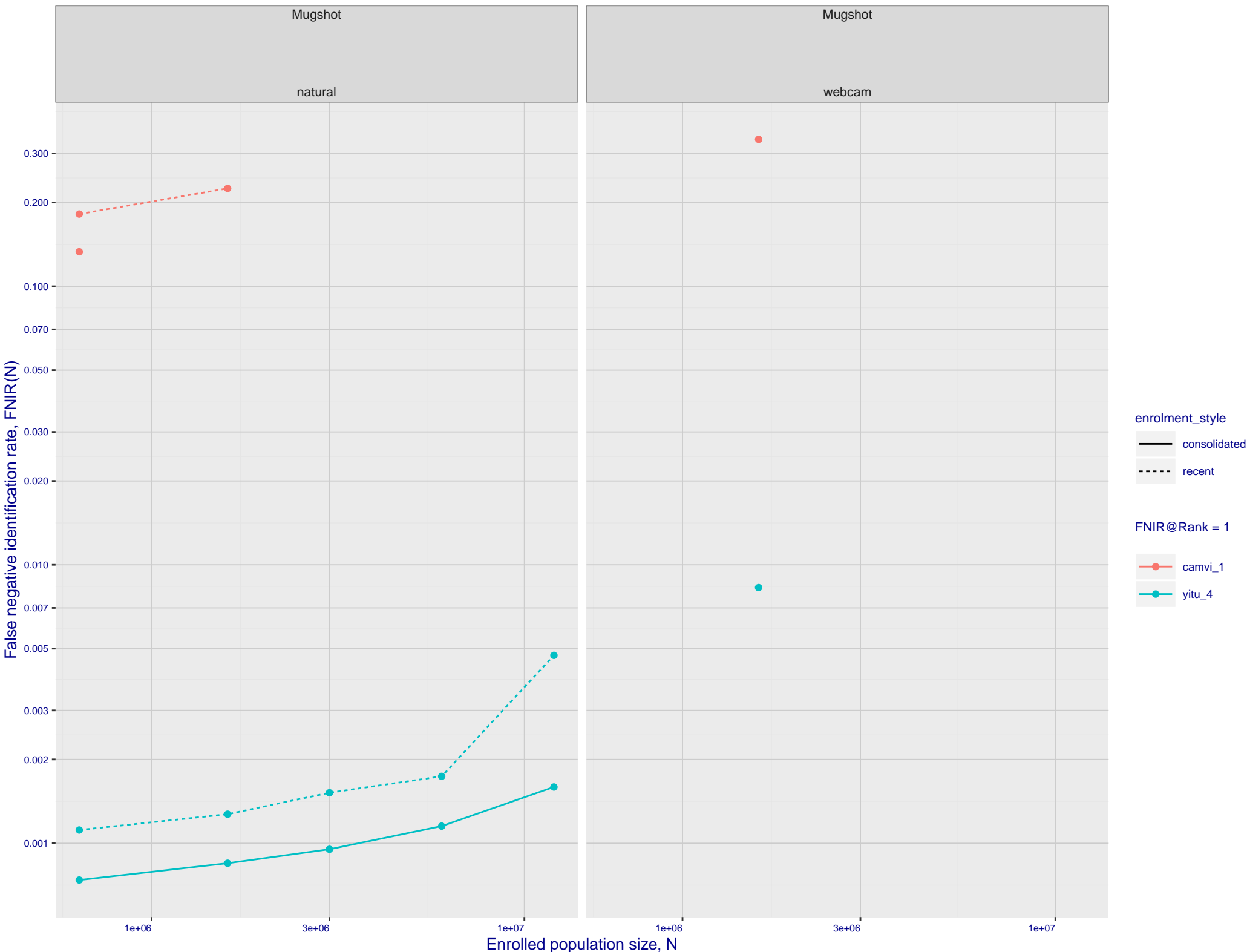
I: Investigational mode: FNIR(1600000, R, 0) by probe type
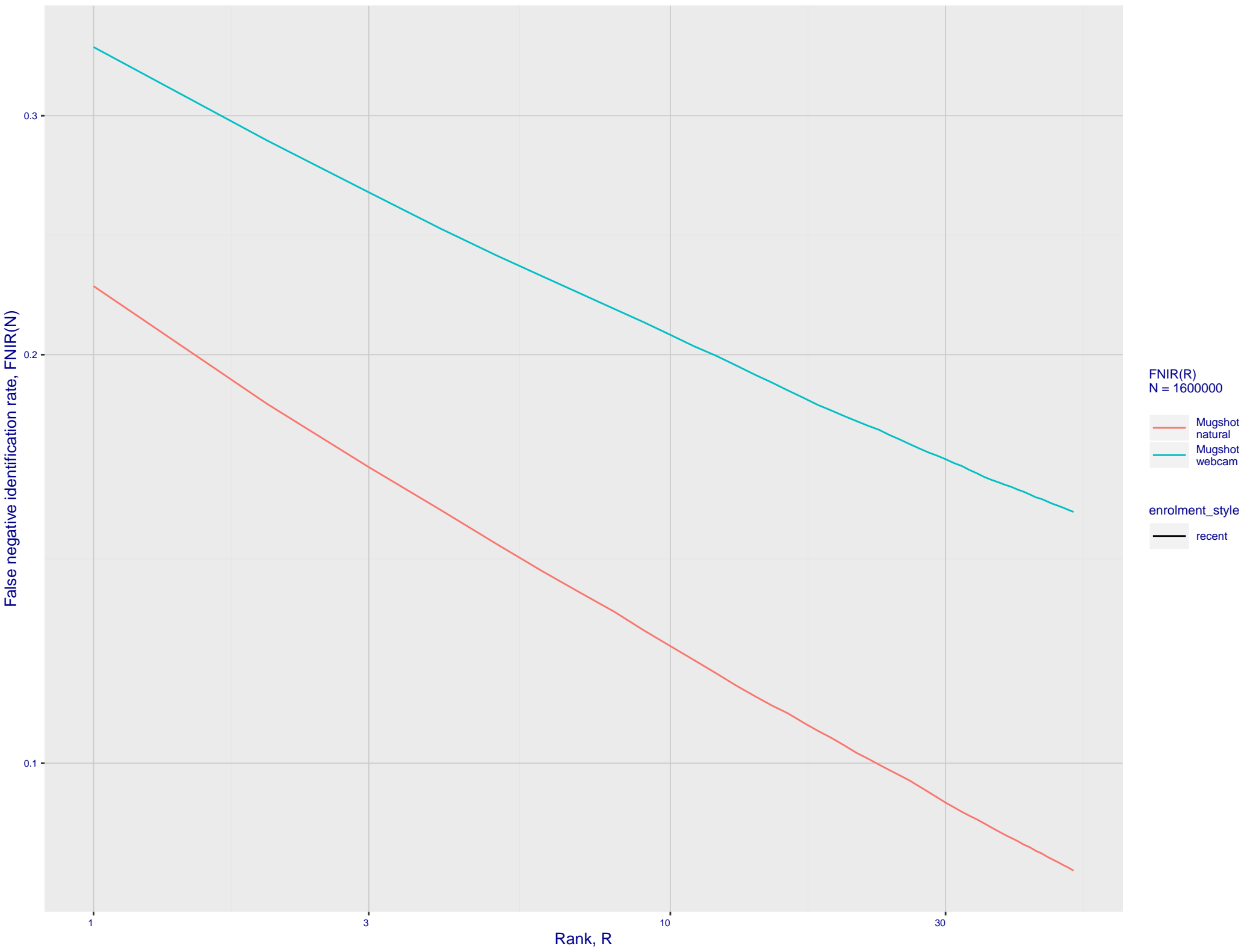
Template duration; search duration vs. N. The blue and pink ribbon covers 95 percent of observed measurements. The template generation time is independent of N. The log and power-law models are fit to the first two (N,T) observations