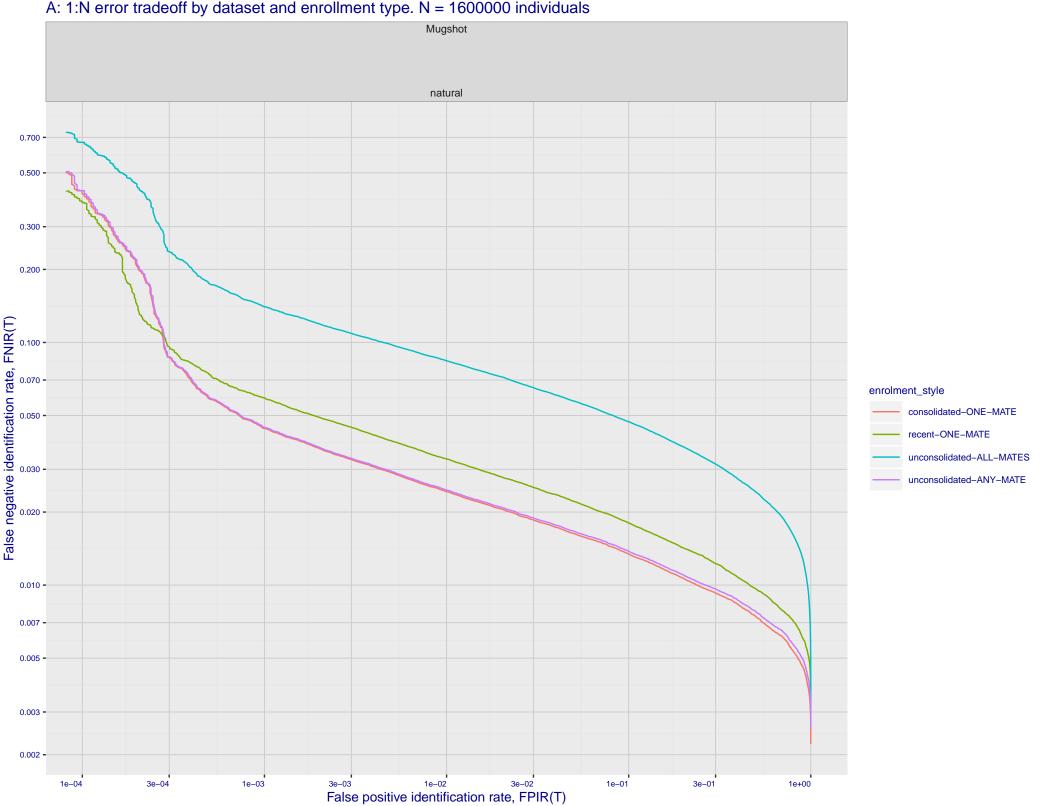
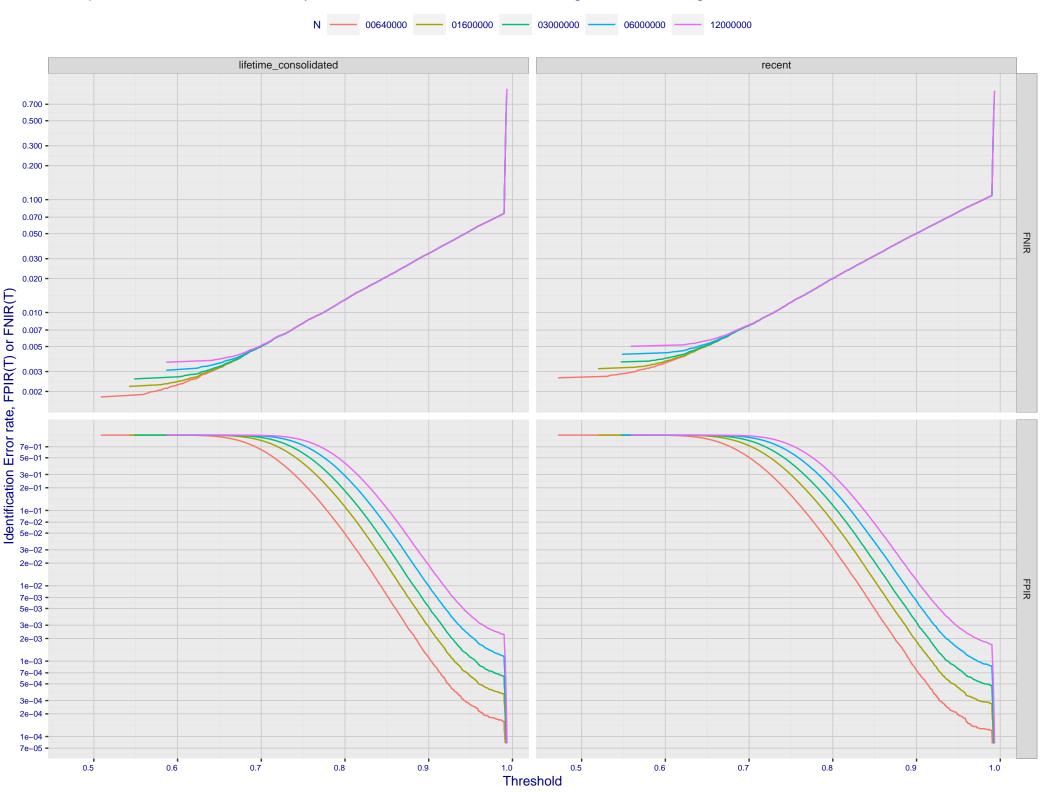
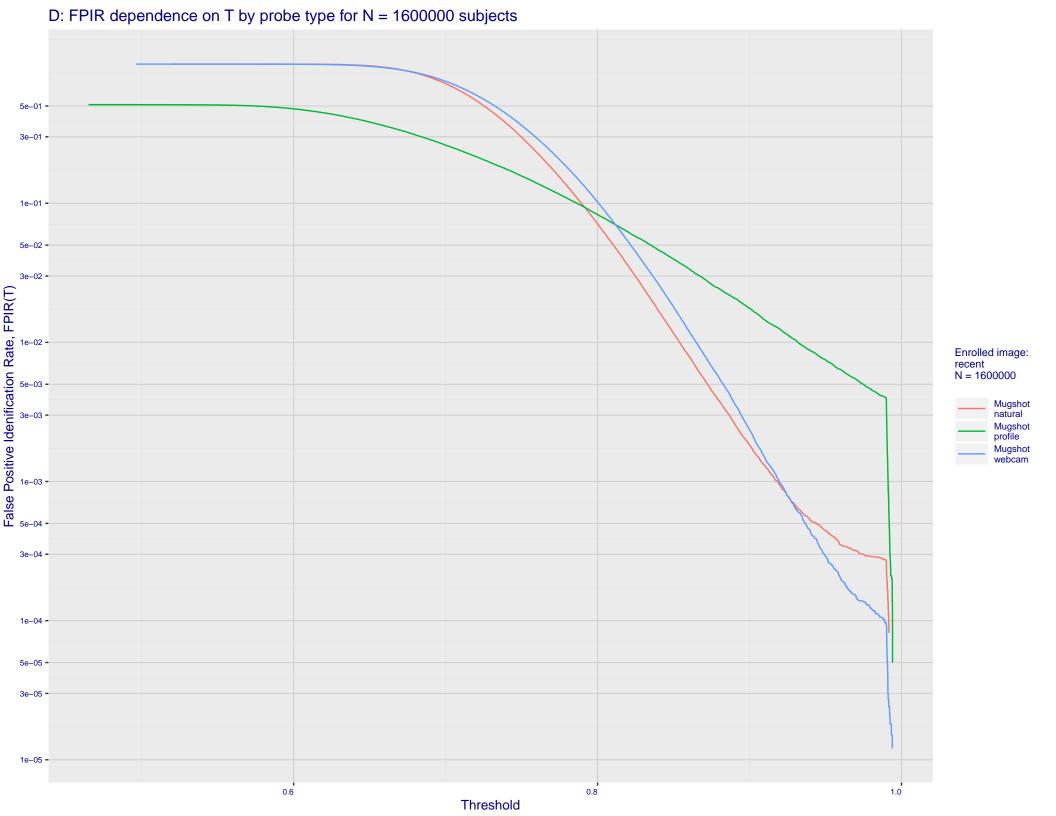
A: 1:N error tradeoff by dataset and enrollment type. N = 1600000 individuals

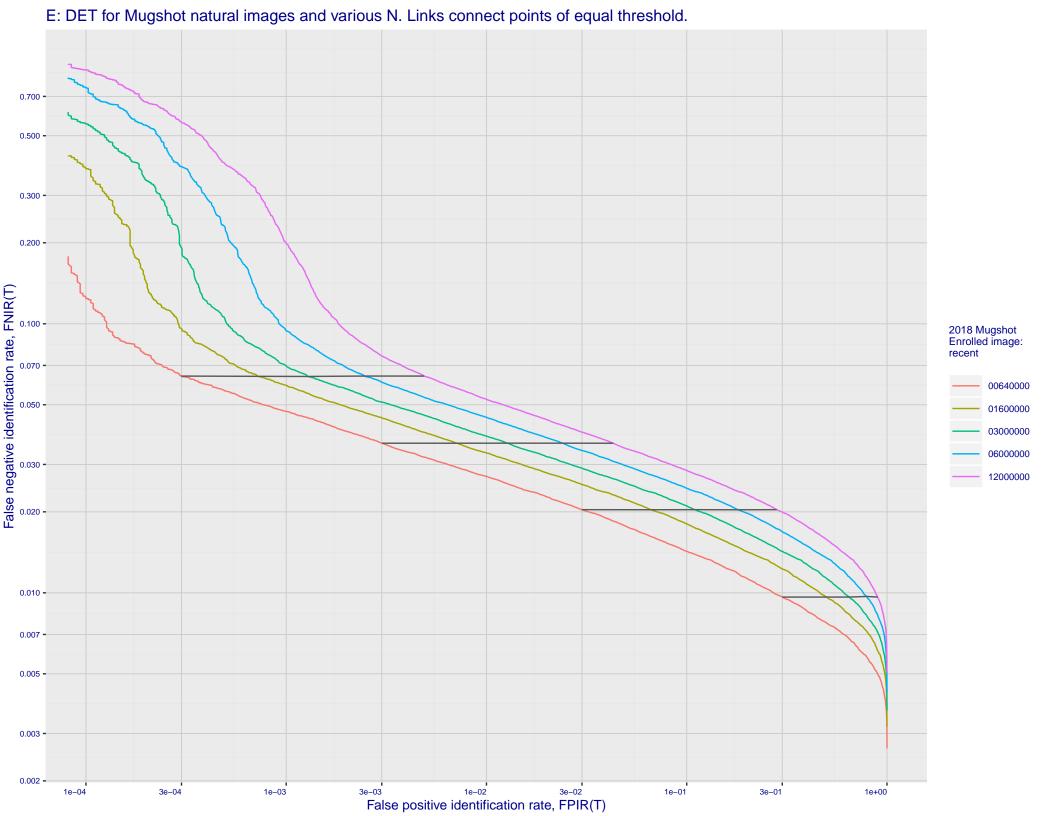


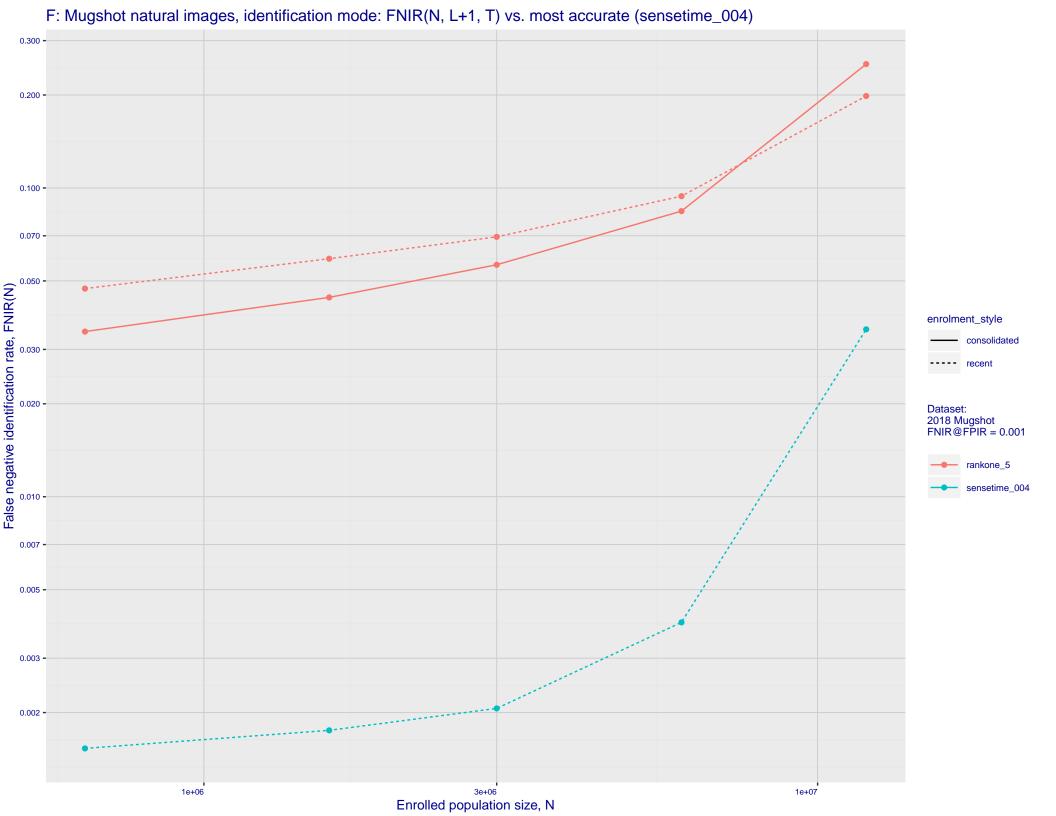
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



C: FPIR vs. Selectivity for mugshot images, N = 1600000 subjects enrolled with one recent mate 7e+01 5e+01 3e+01 2e+01 -1e+01 -7e+00 -5e+00 -3e+00 -2e+00 -1e+00 -7e-01 -5e-01 -3e-01 -2e-01 -1e-01 -Enrolled images: recent N = 1600000 7e-02 - 7e-02 - 7e-03 Mugshot natural Mugshot profile Mugshot webcam 7e-03 -5e-03 -3e-03 -2e-03 -1e-03 -7e-04 -5e-04 -3e-04 -2e-04 -1e-04 • 7e-05 -5e-05 -3e-05 -2e-05 -1e-05 -1e-05 3e-05 1e-04 3e-04 1e-01 3e-01 False Positive Idenification Rate, FPIR(T)







G: Datasheet

Algorithm: rankone_5

Developer: Rank One Computing Submission Date: 2018_10_24

Template size: 133 bytes

Template time (2.5 percentile): 89 msec

Template time (median): 92 msec

Template time (97.5 percentile): 103 msec

Frontal mugshot investigation rank 112 -- FNIR(1600000, 0, 1) = 0.0094 vs. lowest 0.0010 from sensetime_004

natural investigation rank 122 -- FNIR(1600000, 0, 1) = 0.0407 vs. lowest 0.0067 from sensetime_003

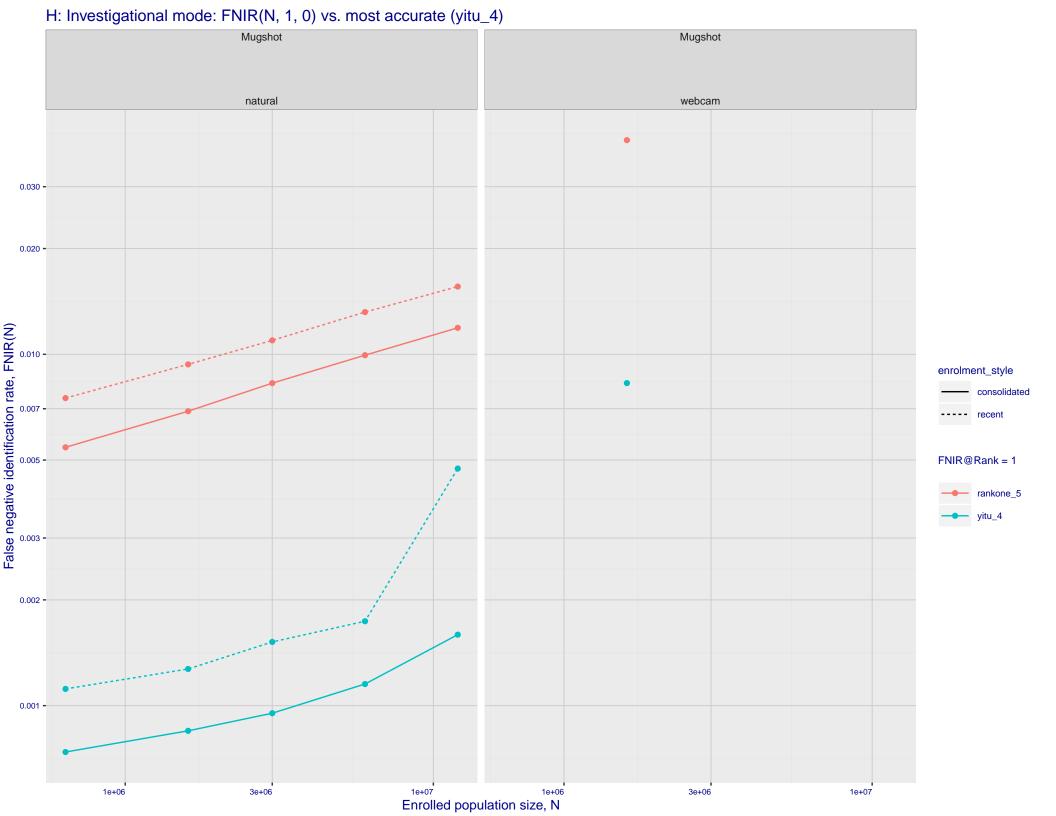
natural investigation rank 337 -- FNIR(1600000, 0, 1) = 0.9796 vs. lowest 0.0492 from paravision_005

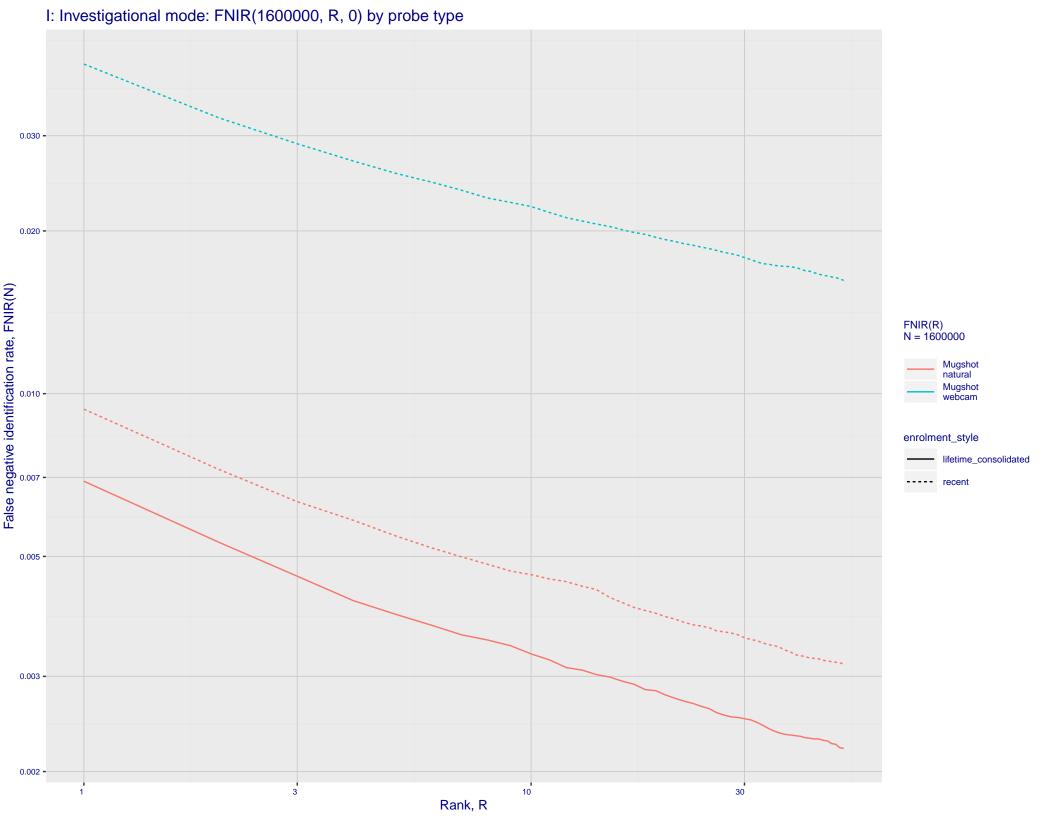
natural investigation rank 337 -- FNIR(1600000, 0, 1) = 0.9796 vs. lowest 0.0492 from paravision_005

Frontal mugshot identification rank 89 — FNIR(1600000, T, L+1) = 0.0590 vs. lowest 0.0018 from sensetime_004

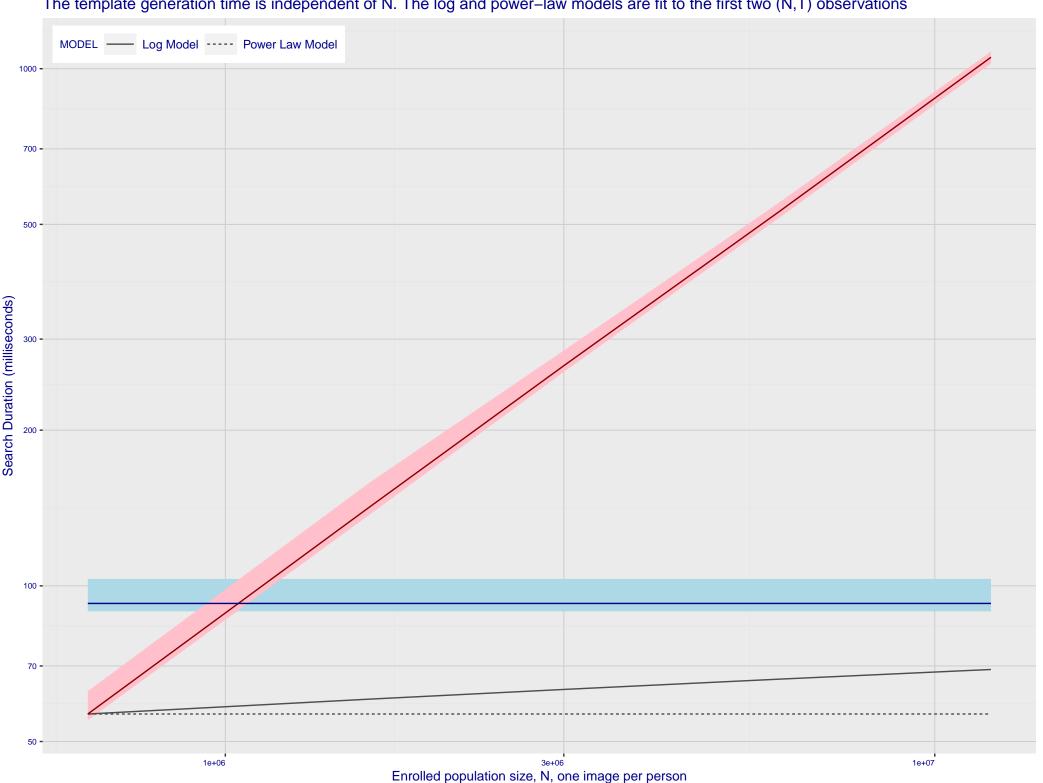
natural identification rank 109 -- FNIR(1600000, T, L+1) = 0.1731 vs. lowest 0.0122 from sensetime_003

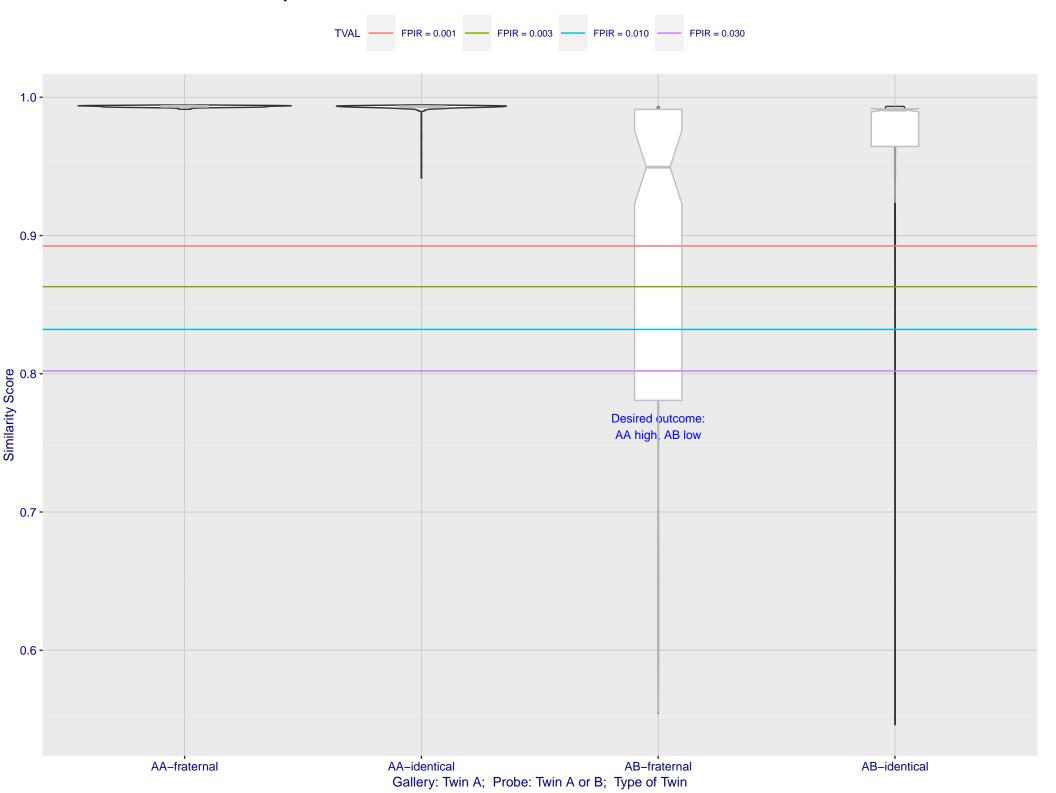
natural identification rank 117 -- FNIR(1600000, T, L+1) = 0.9979 vs. lowest 0.1020 from sensetime_004





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

