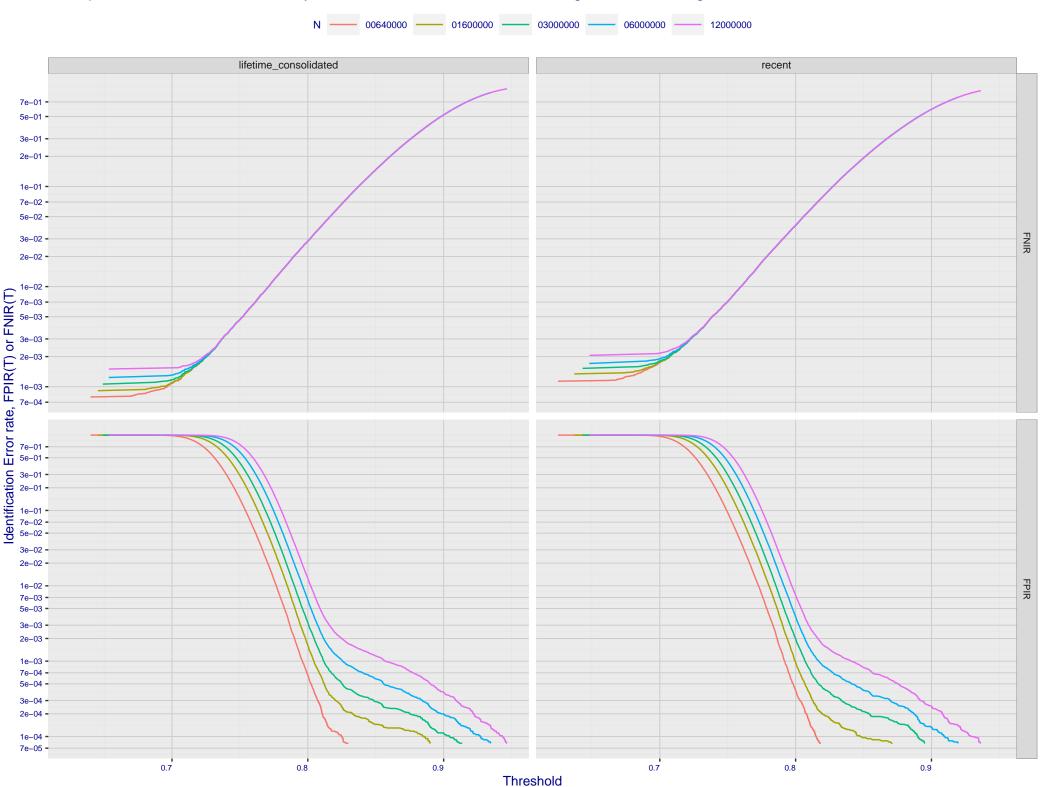
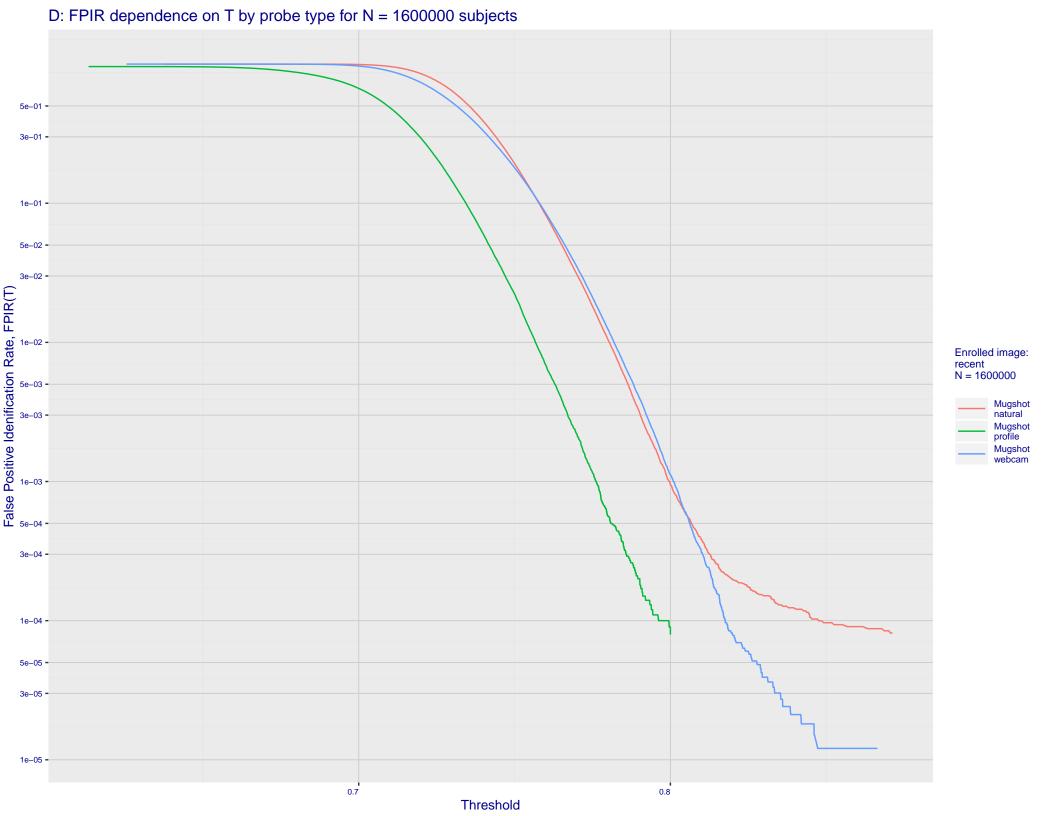
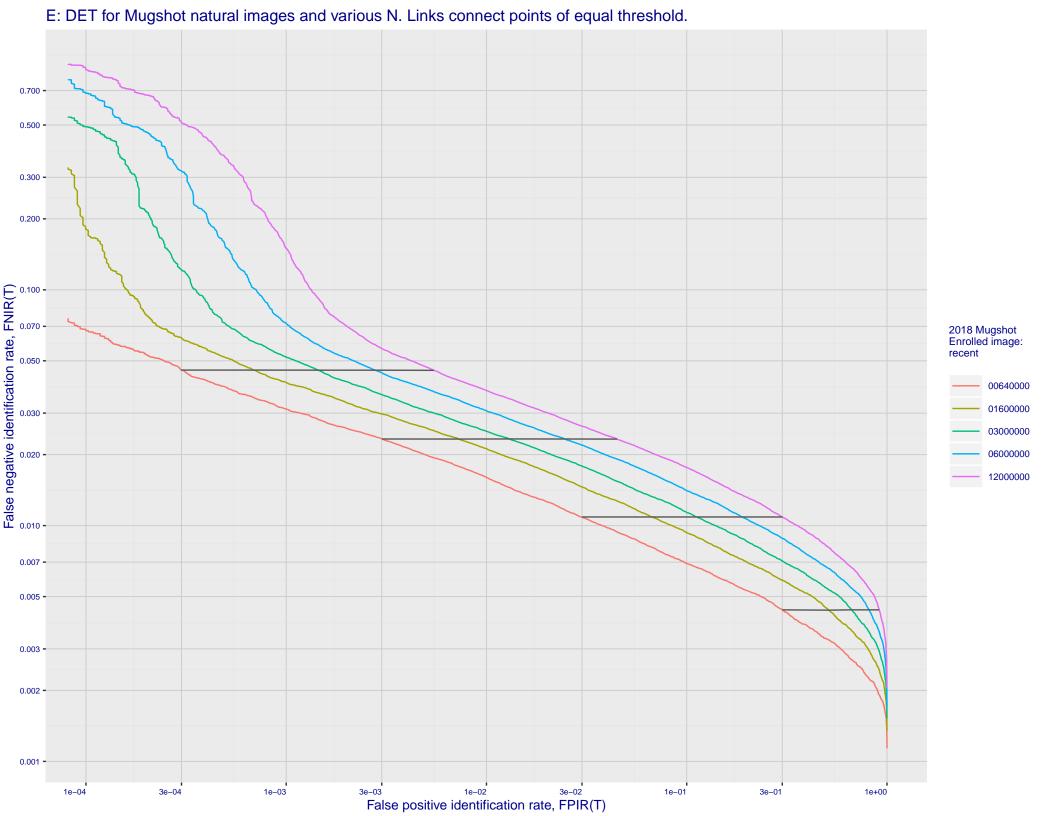


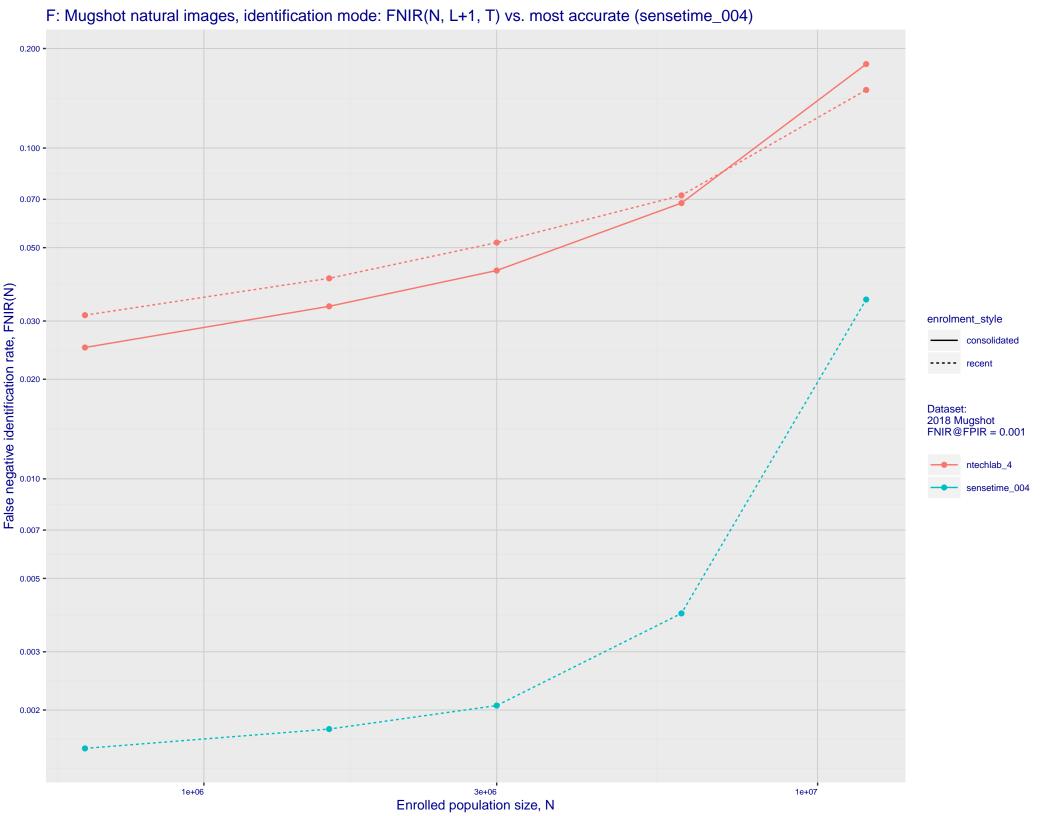
B: Dependence of error rates on T by number enrolled identities, N, for Mugshot natural images



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)

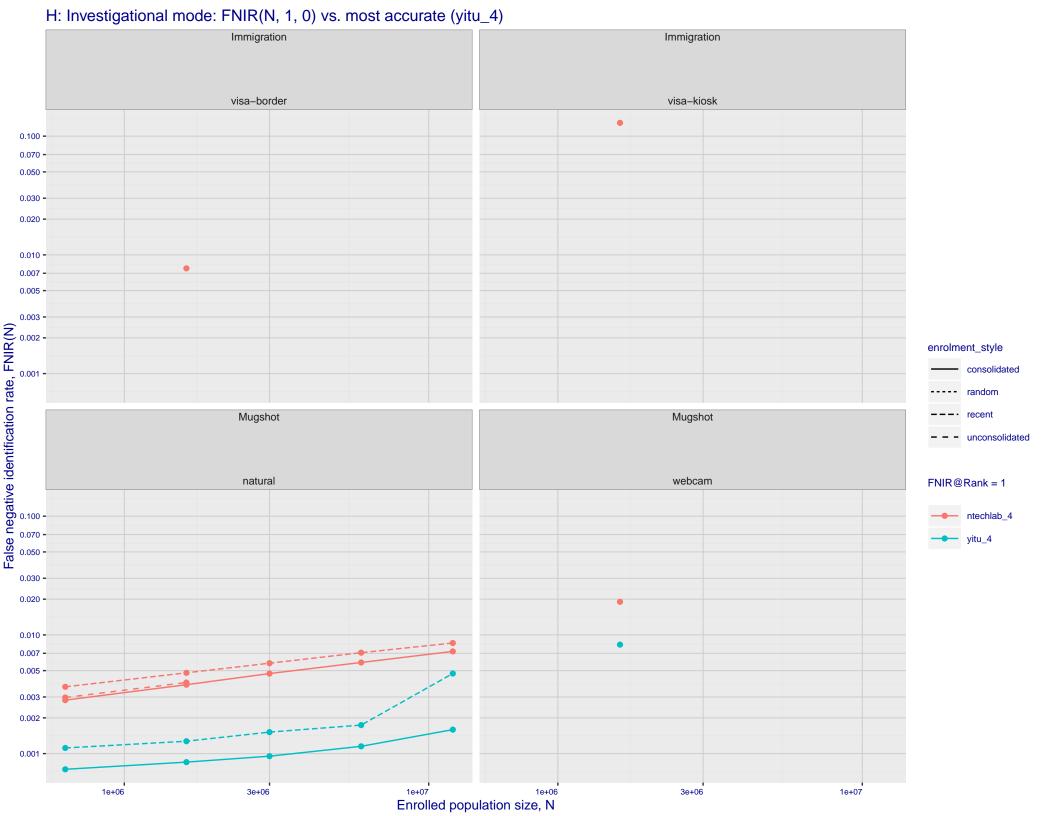


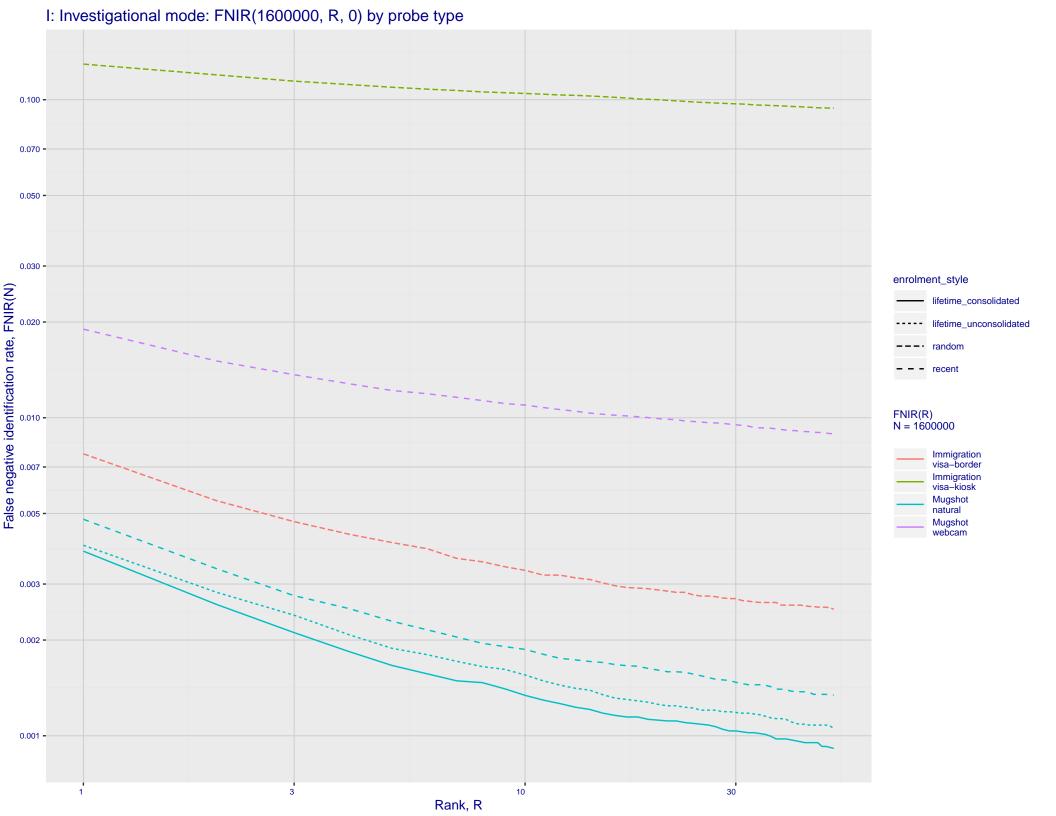




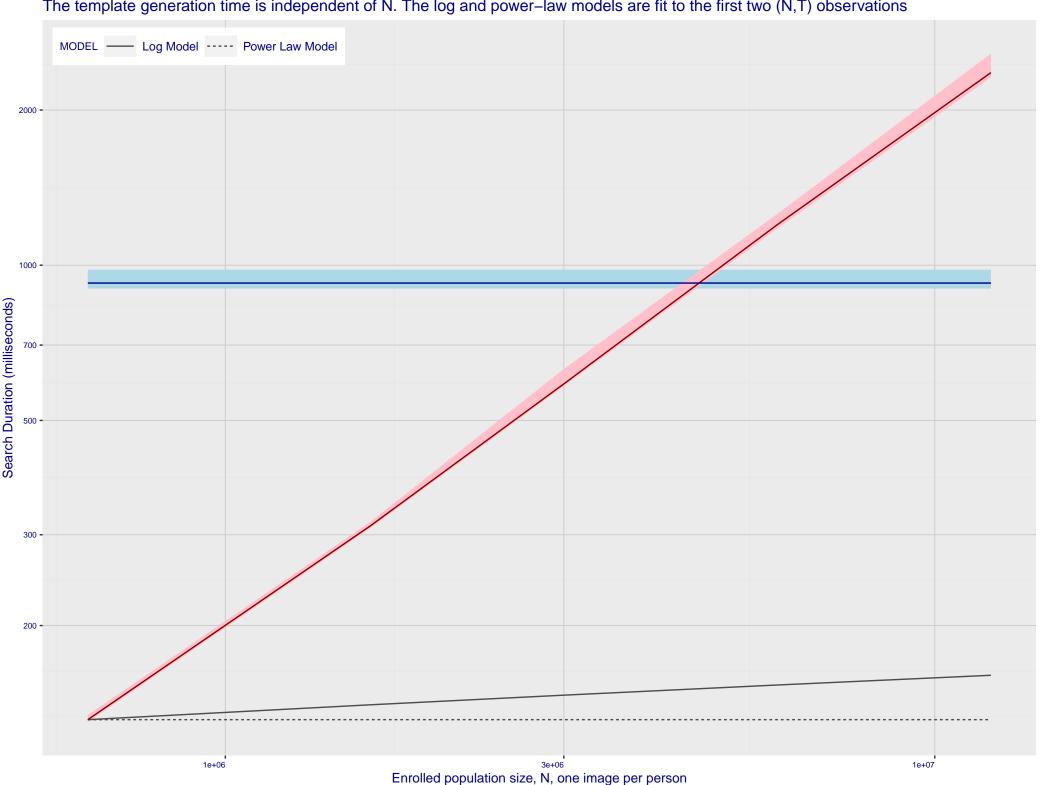
G: Datasheet

```
Algorithm: ntechlab_4
Developer: N-Tech Lab
Submission Date: 2018_06_21
Template size: 3482 bytes
Template time (2.5 percentile): 901 msec
Template time (median): 923 msec
Template time (97.5 percentile): 980 msec
Frontal mugshot investigation rank 70 — FNIR(1600000, 0, 1) = 0.0048 vs. lowest 0.0010 from sensetime_004
natural investigation rank 54 -- FNIR(1600000, 0, 1) = 0.0190 vs. lowest 0.0067 from sensetime_003
natural investigation rank 54 -- FNIR(1600000, 0, 1) = 0.3082 vs. lowest 0.0492 from paravision_005
natural investigation rank 54 -- FNIR(1600000, 0, 1) = 0.3082 vs. lowest 0.0492 from paravision_005
natural investigation rank 41 -- FNIR(1600000, 0, 1) = 0.0077 vs. lowest 0.0014 from visionlabs_009
natural investigation rank 37 -- FNIR(1600000, 0, 1) = 0.1294 vs. lowest 0.0694 from cib_000
Frontal mugshot identification rank 51 -- FNIR(1600000, T, L+1) = 0.0404 vs. lowest 0.0018 from sensetime_004
natural identification rank 55 -- FNIR(1600000, T, L+1) = 0.1045 vs. lowest 0.0122 from sensetime_003
natural identification rank 19 -- FNIR(1600000, T, L+1) = 0.6509 vs. lowest 0.1020 from sensetime_004
natural identification rank 34 -- FNIR(1600000, T, L+1) = 0.0527 vs. lowest 0.0059 from sensetime_004
natural identification rank 25 -- FNIR(1600000, T, L+1) = 0.2648 vs. lowest 0.1129 from visionlabs_009
```





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

