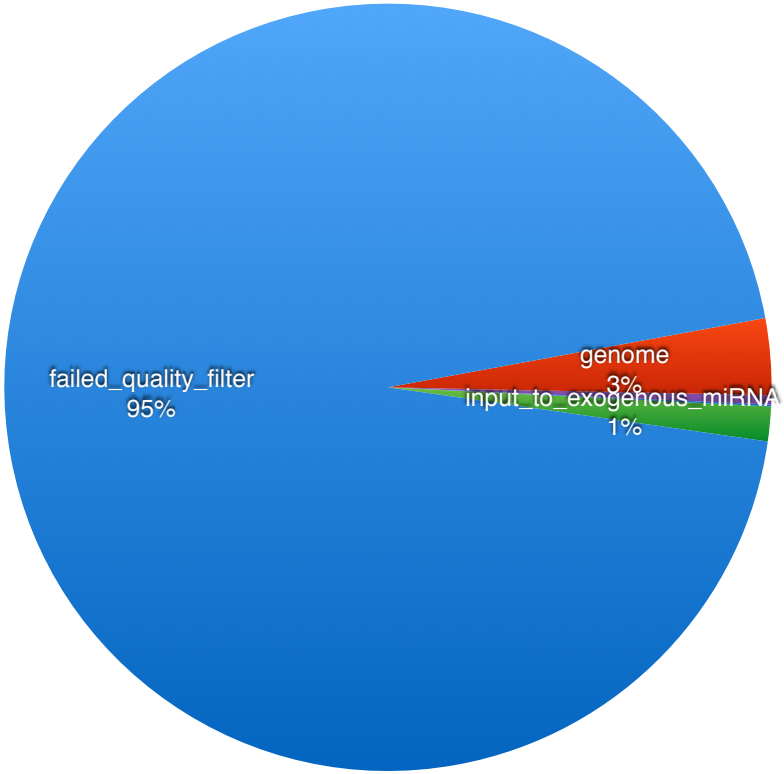
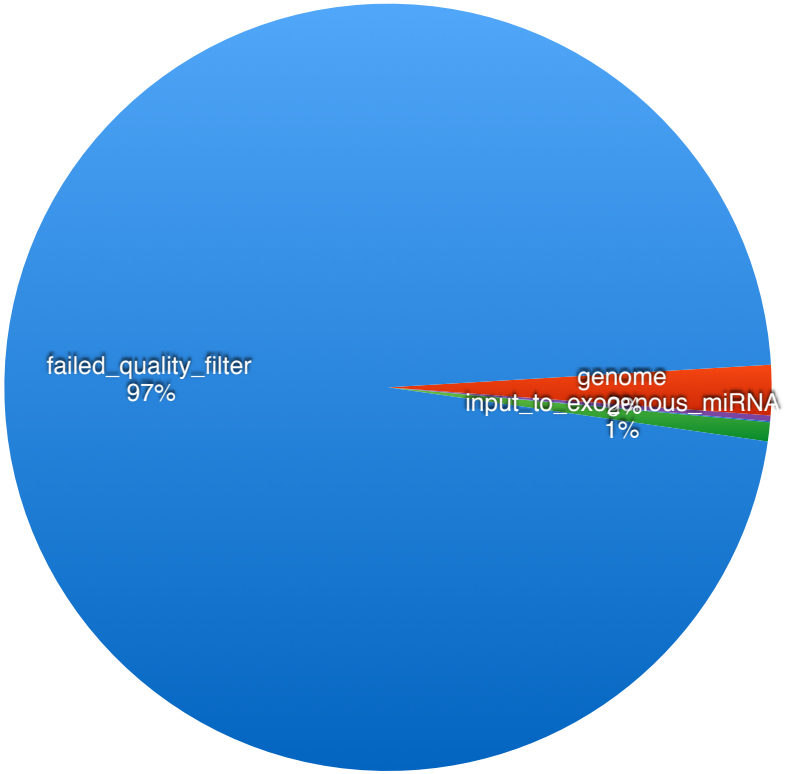
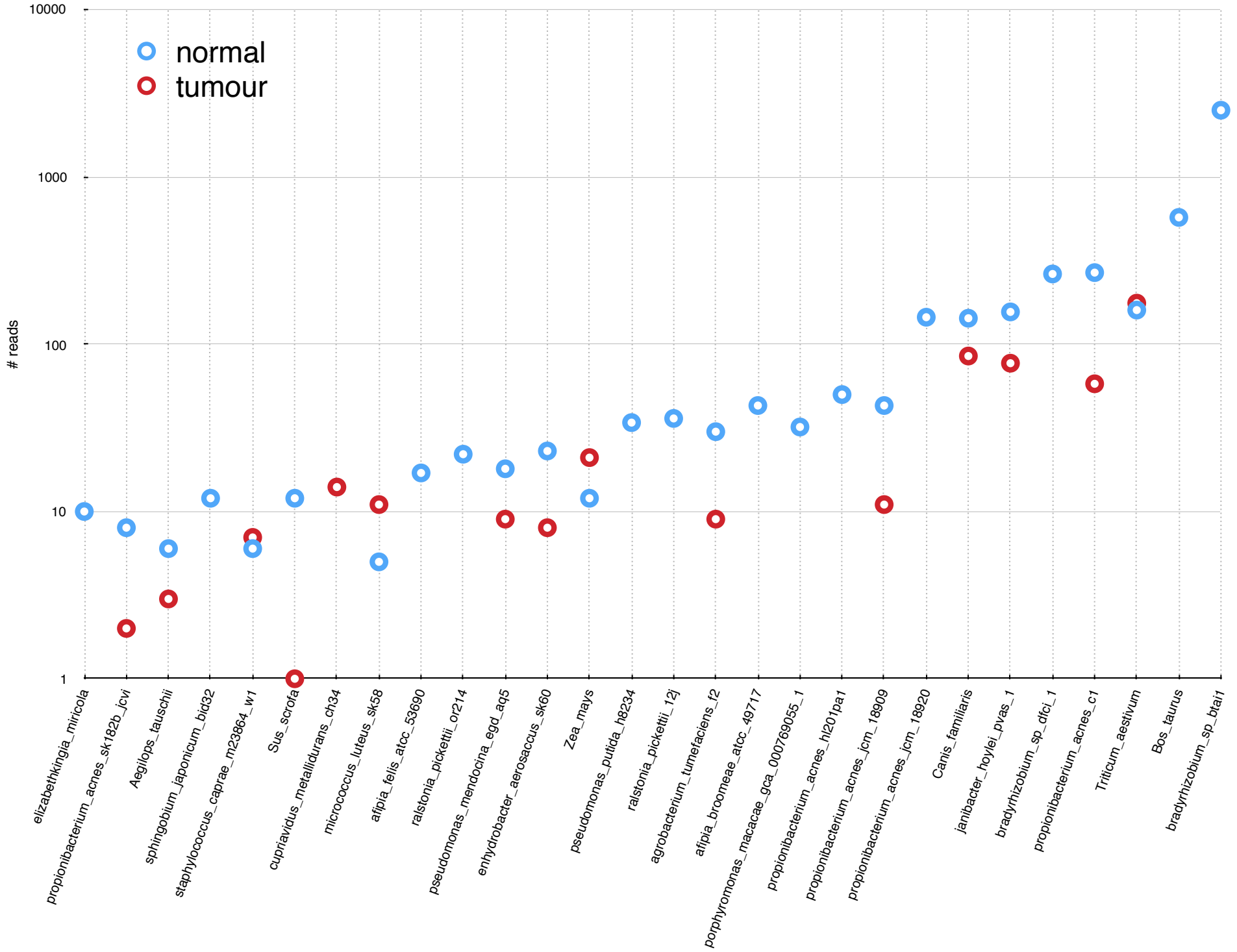
Lajos’ test samples

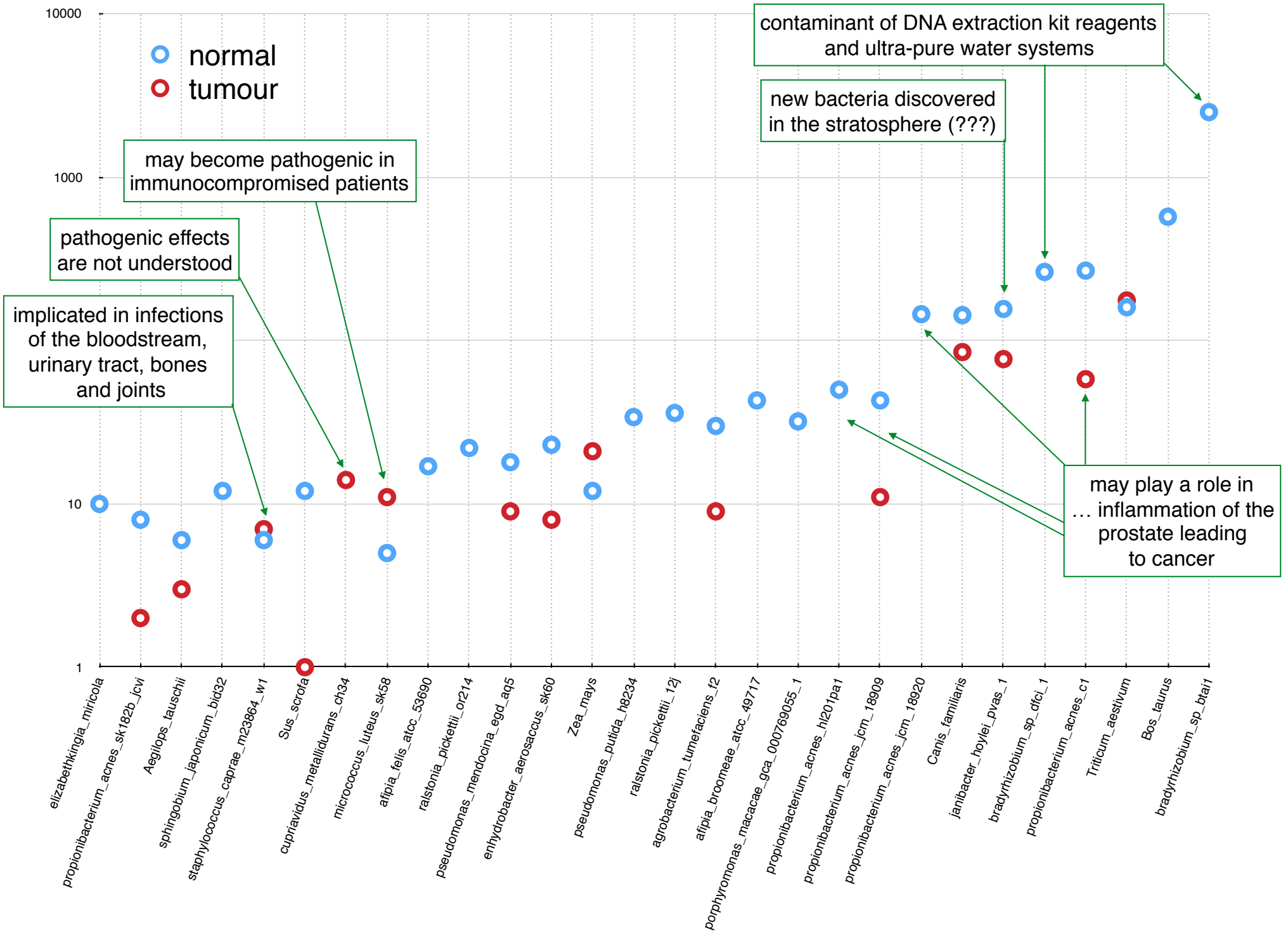
most unmapped reads are very poor quality





# reads	normal	tumour
input	21,241,477	29,561,619
human	1,208,074	1,043,593
non-human	310,001	236,429
exogenous	4,918	631


normal
tumour
reads
10000
1000
100
10
1
elizabethkingia_miricola
propionibacterium_acnes_sk182b_jcvi
Aegilops_tauschii
sphingobium_japonicum_bid32
staphylococcus_caprae_m23864_w1
Sus_scrofa
cupriavidus_metallidurans_ch34
micrococcus_luteus_sk58
afipia_felis_atcc_53690
ralstonia_pickettii_or214
pseudomonas_mendocina_egd_aq5
enhydrobacter_aerosaccus_sk60
Zea_mays
pseudomonas_putida_h8234
ralstonia_pickettii_12j
agrobacterium_tumefaciens_f2
afipia_broomeae_atcc_49717
porphyromonas_macacae_gca_000769055_1
propionibacterium_acnes_hl201pa1
propionibacterium_acnes_jcm_18909
propionibacterium_acnes_jcm_18920
Canis_familiaris
janibacter_hoylei_pvas_1
bradyrhizobium_sp_dfci_1
propionibacterium_acnes_c1
Triticum_aestivum
Bos_taurus
bradyrhizobium_sp_btai1


10000
1000
10
1
normal
tumour
contaminant of DNA extraction kit reagents and ultra-pure water systems
new bacteria discovered in the stratosphere (???)
may become pathogenic in immunocompromised patients
pathogenic effects are not understood
implicated in infections of the bloodstream, urinary tract, bones and joints
may play a role in … inflammation of the prostate leading to cancer
elizabethkingia_miricola
propionibacterium_acnes_sk182b_jcvi
Aegilops_tauschii
sphingobium_japonicum_bid32
staphylococcus_caprae_m23864_w1
Sus_scrofa
cupriavidus_metallidurans_ch34
micrococcus_luteus_sk58
afipia_felis_atcc_53690
ralstonia_pickettii_or214
pseudomonas_mendocina_egd_aq5
enhydrobacter_aerosaccus_sk60
Zea_mays
pseudomonas_putida_h8234
ralstonia_pickettii_12j
agrobacterium_tumefaciens_f2
afipia_broomeae_atcc_49717
porphyromonas_macacae_gca_000769055_1
propionibacterium_acnes_hl201pa1
propionibacterium_acnes_jcm_18909
propionibacterium_acnes_jcm_18920
Canis_familiaris
janibacter_hoylei_pvas_1
bradyrhizobium_sp_dfci_1
propionibacterium_acnes_c1
Triticum_aestivum
Bos_taurus
bradyrhizobium_sp_btai1

propionibacterium acnes

- may be interesting to followup
- resides deep in follicles, usually part of the healthy skin flora (although linked to acne)
- however it can activate an inflammatory response as an opportunistic pathogen
- inflammation can lead to cancer, Sarcoidosis, etc
- is this also present in the non-inflammatory breast cancer sample pairs?