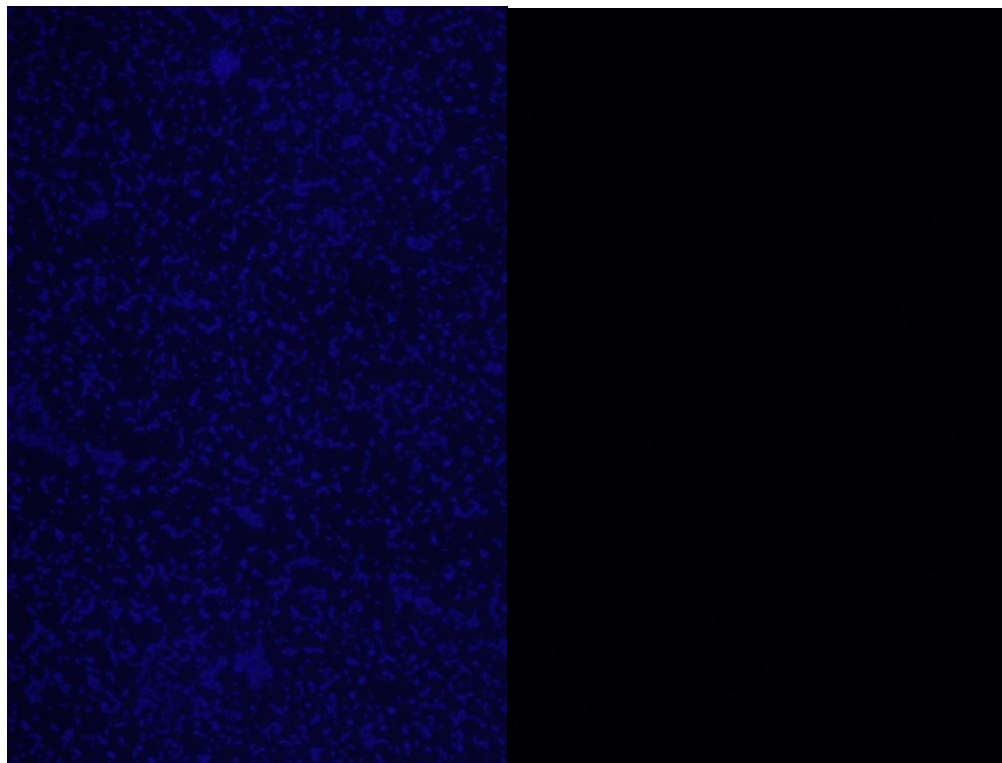
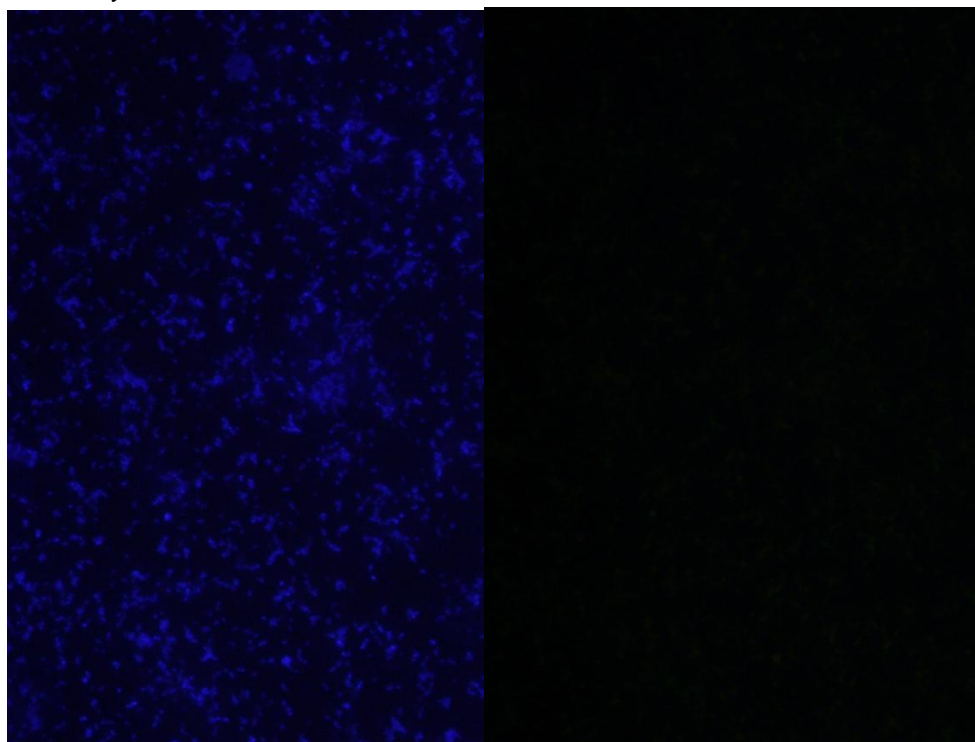


Supplementary Figure 1: The following images present the fluorescence microscopy results of *Prevotella* spp. probe hybridization with all the tested species for sensitivity and specificity. The images were obtained using DAPI filter and FITC filter. Magnification of 400x and scale bars represent 20 μm .

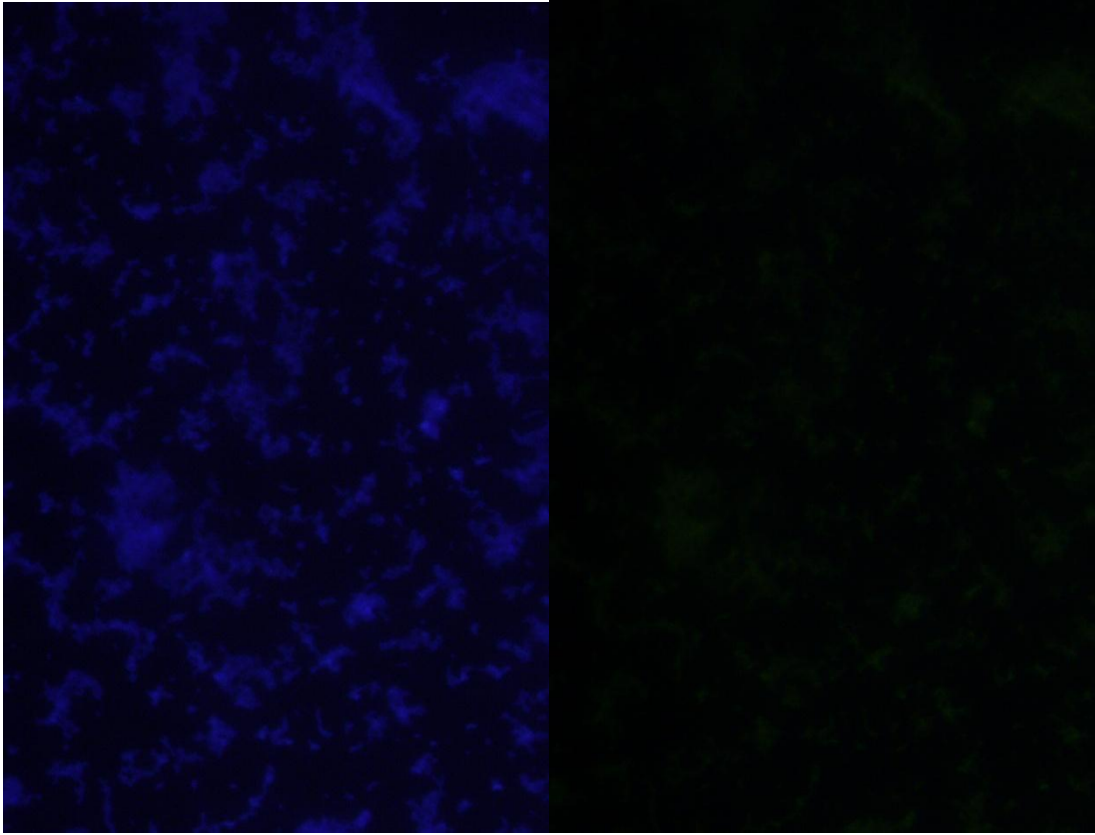
Acinetobacter baumannii CCUG 59798



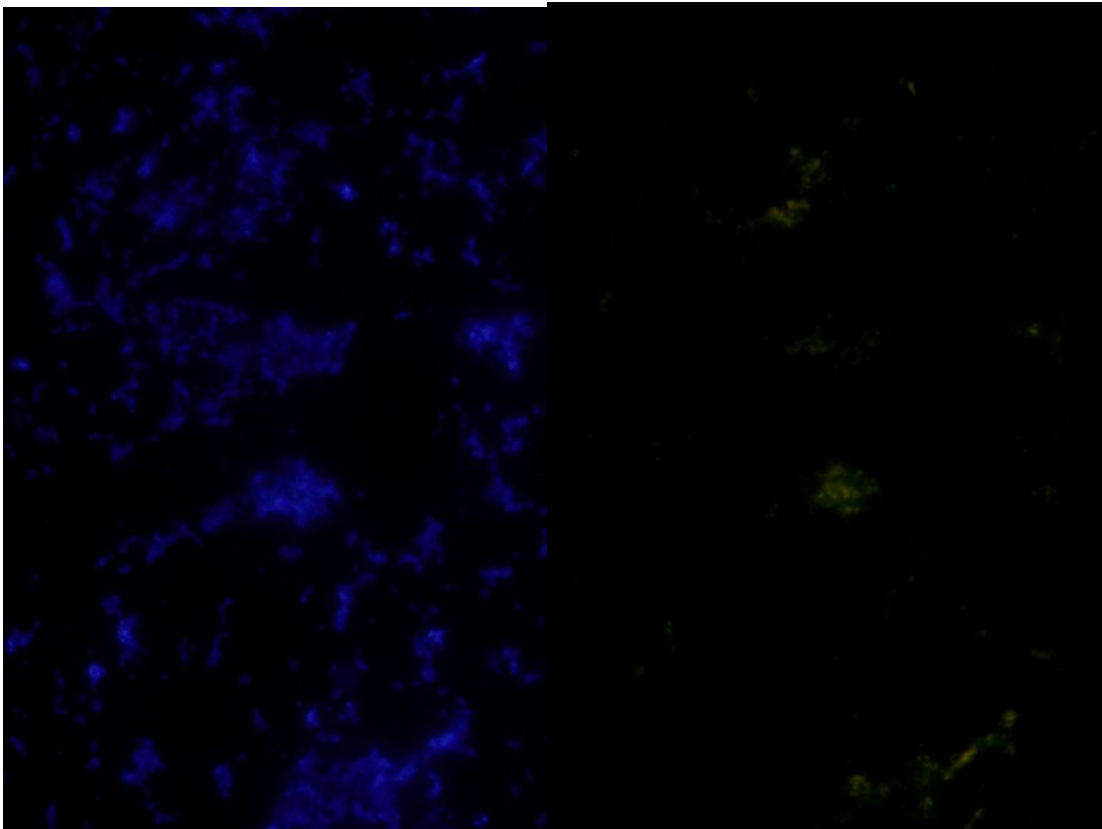
Actinomyces neuii UM067



Actinomyces urogenitalis CCUG 44038

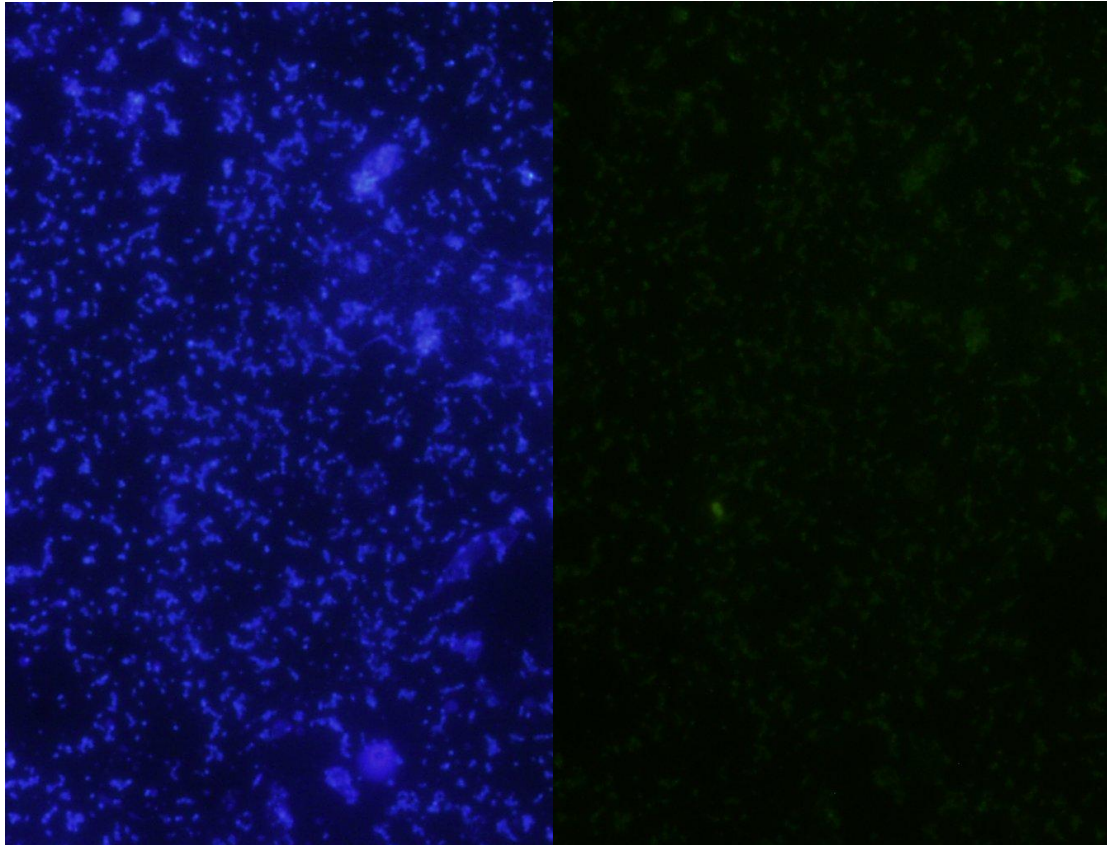


Aerococcus christensenii CCUG 28826



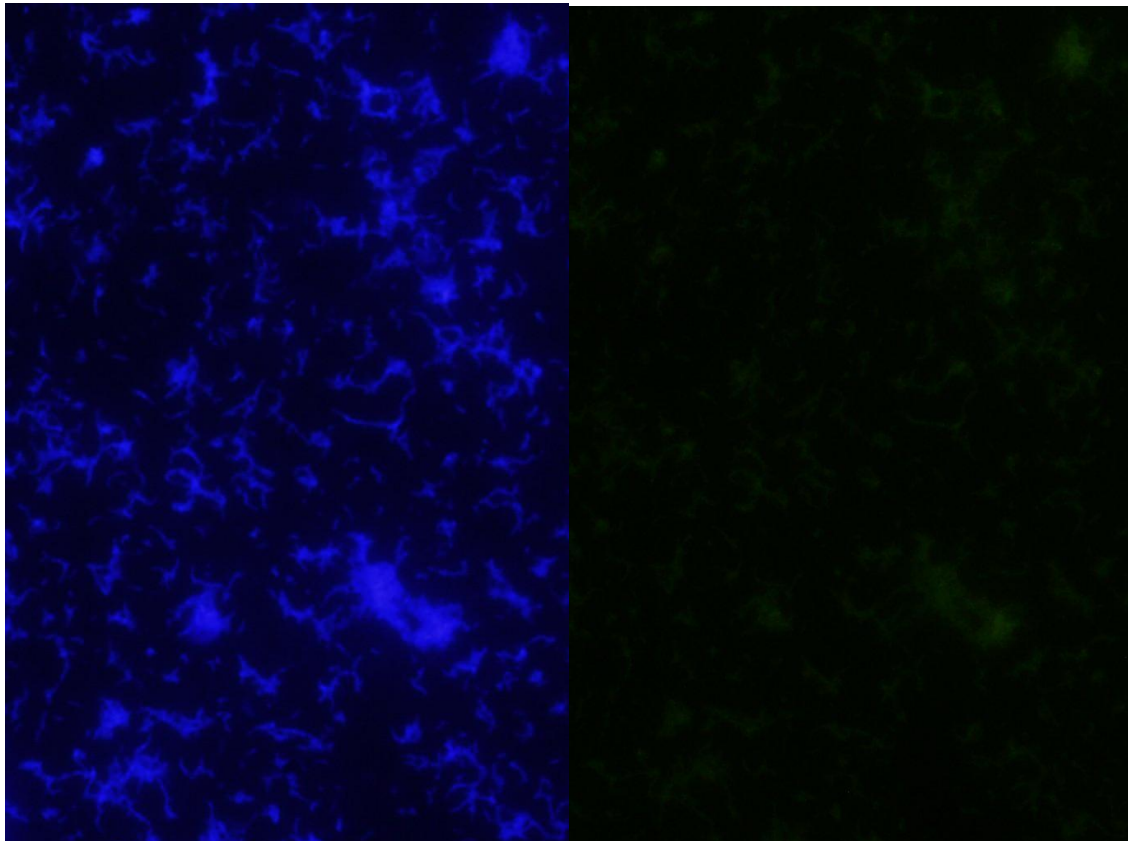
Bacillus firmus

UM034



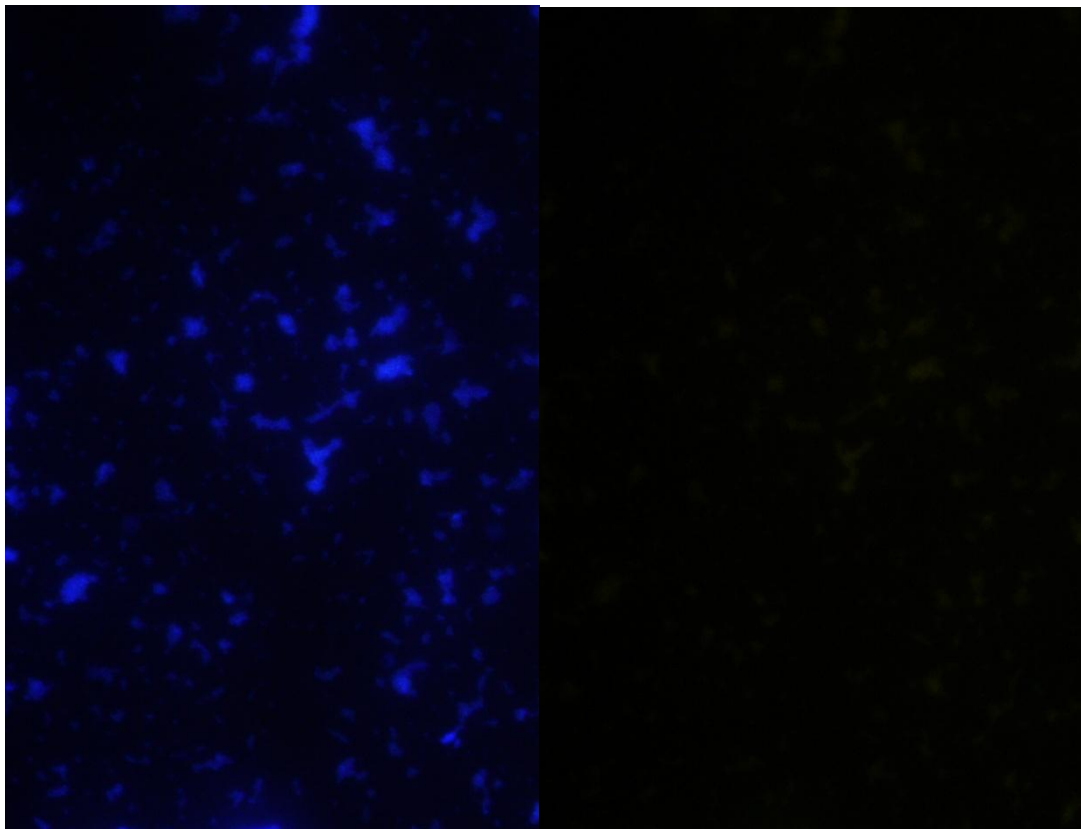
Bifidobacterium bifidum

CCUG 59492



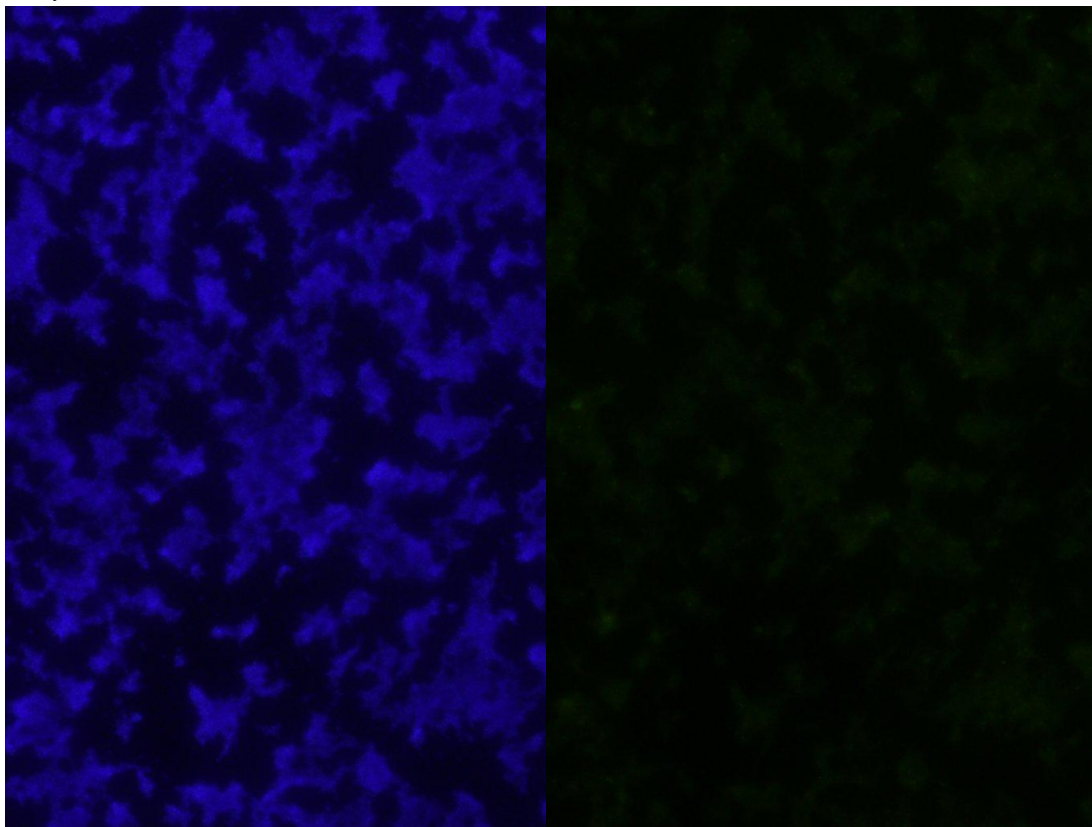
Brevibacterium ravenespurgense

CCUG 42923



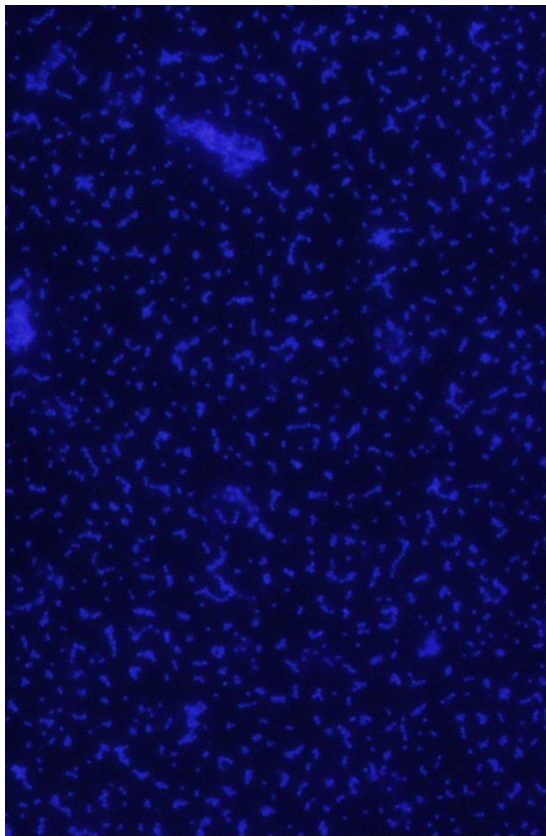
Corynebacterium tuscaniense

UM137



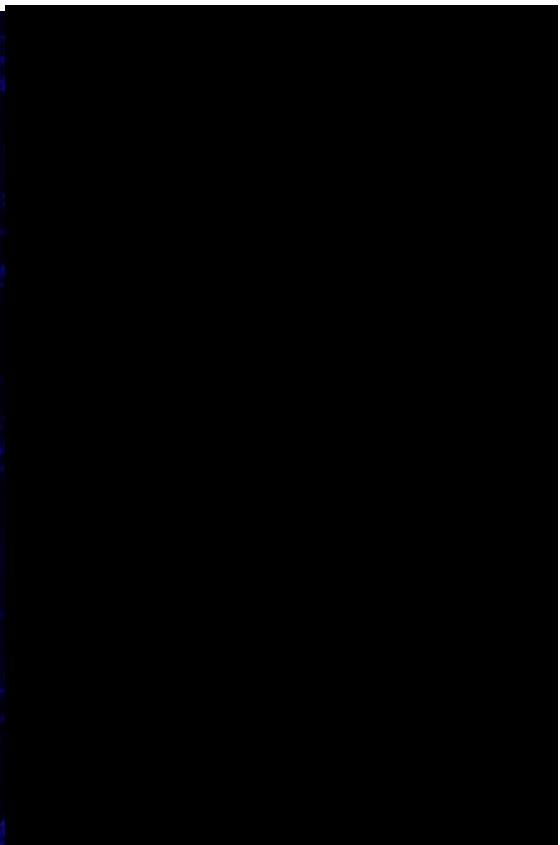
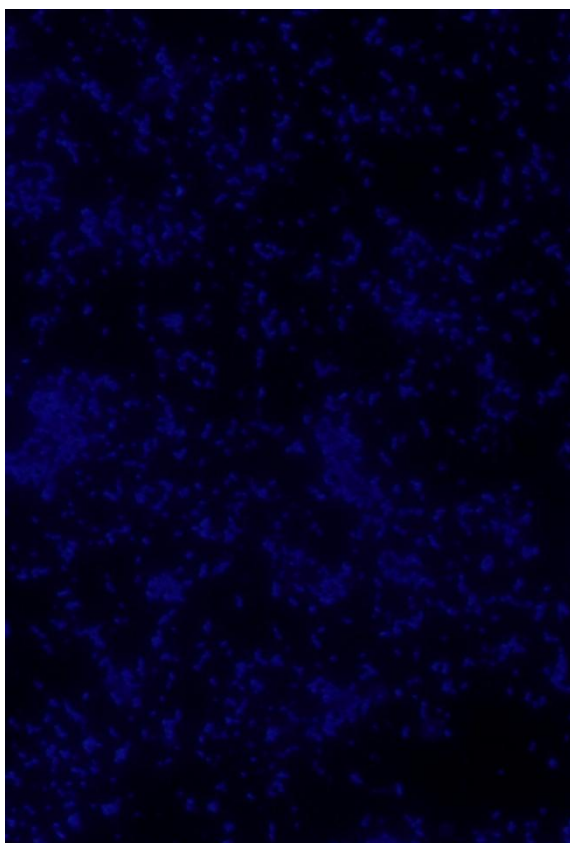
Enterococcus faecalis

UM035

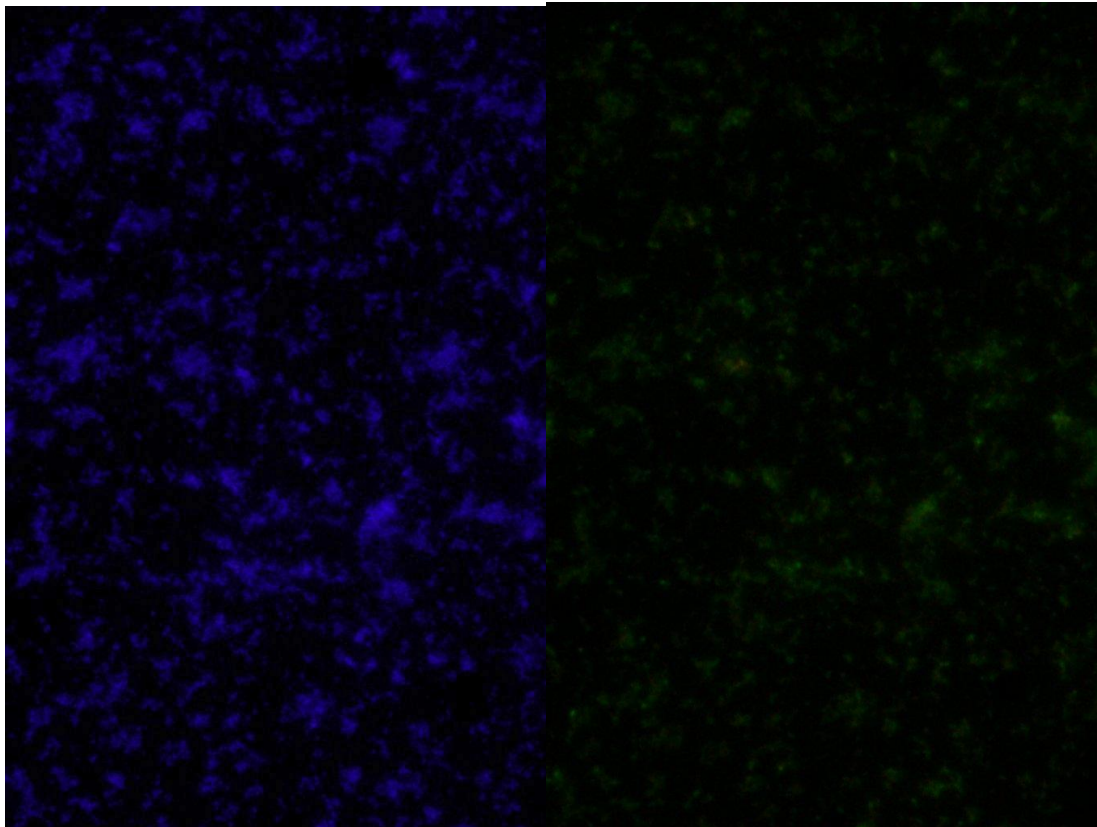


Escherichia coli

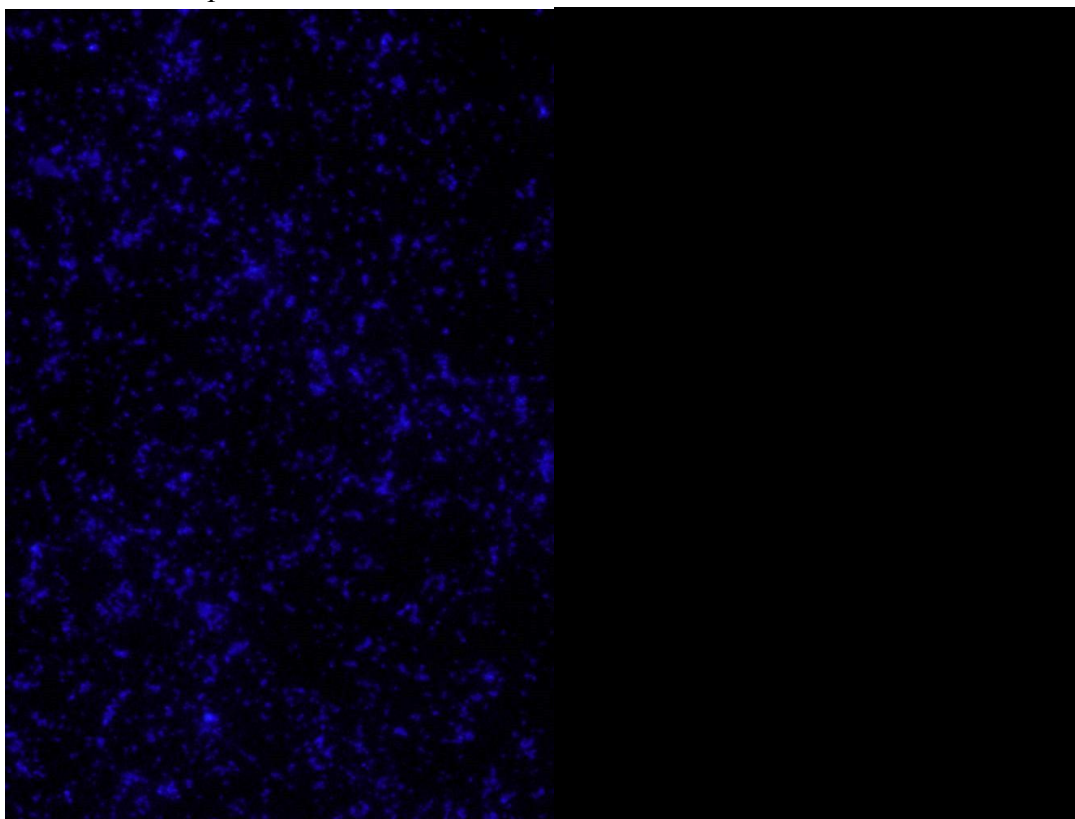
UM056



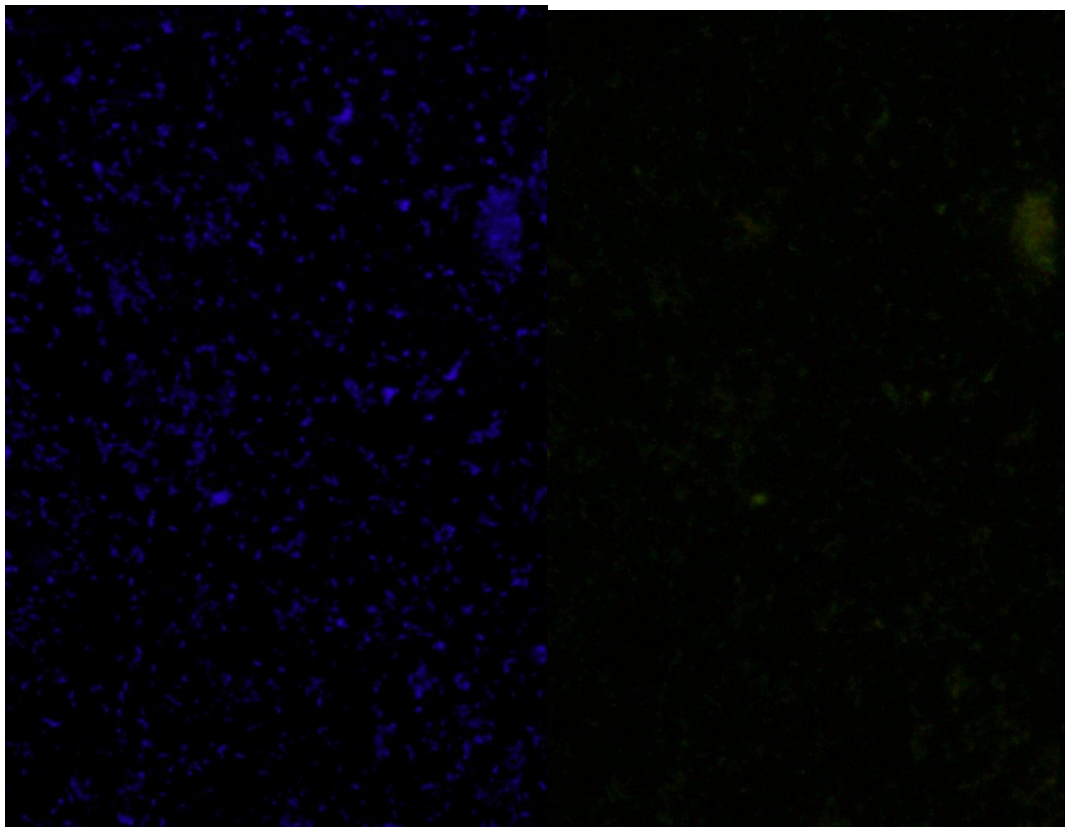
Fannyhessea vaginae ATCC BAA-55



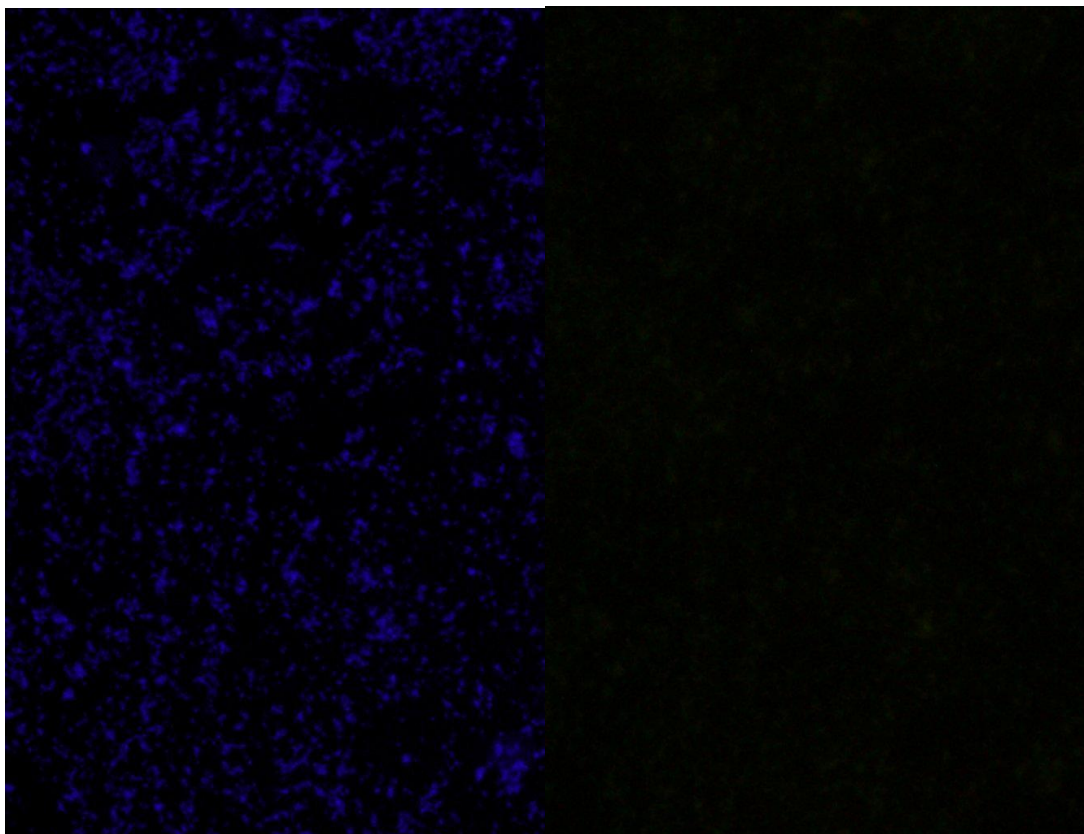
Gardnerella leopoldii UM034



Gardnerella piovii UM035

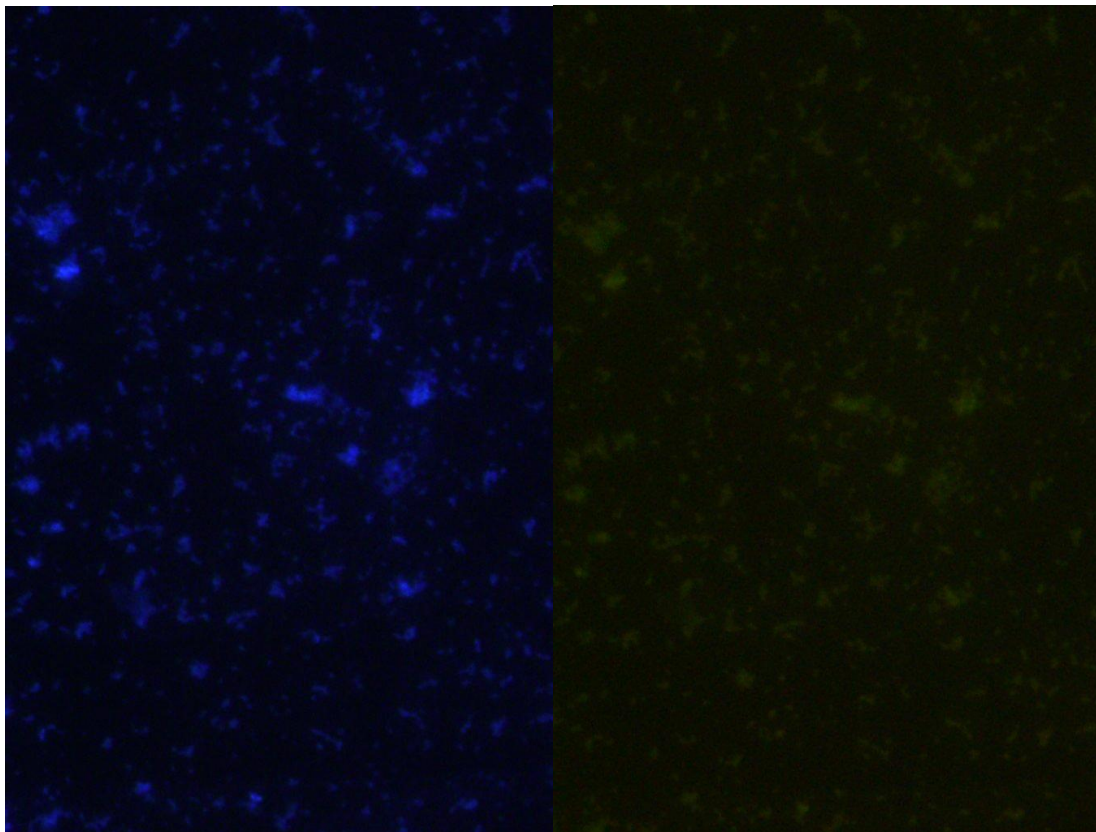


Gardnerella swidsinskii UM094

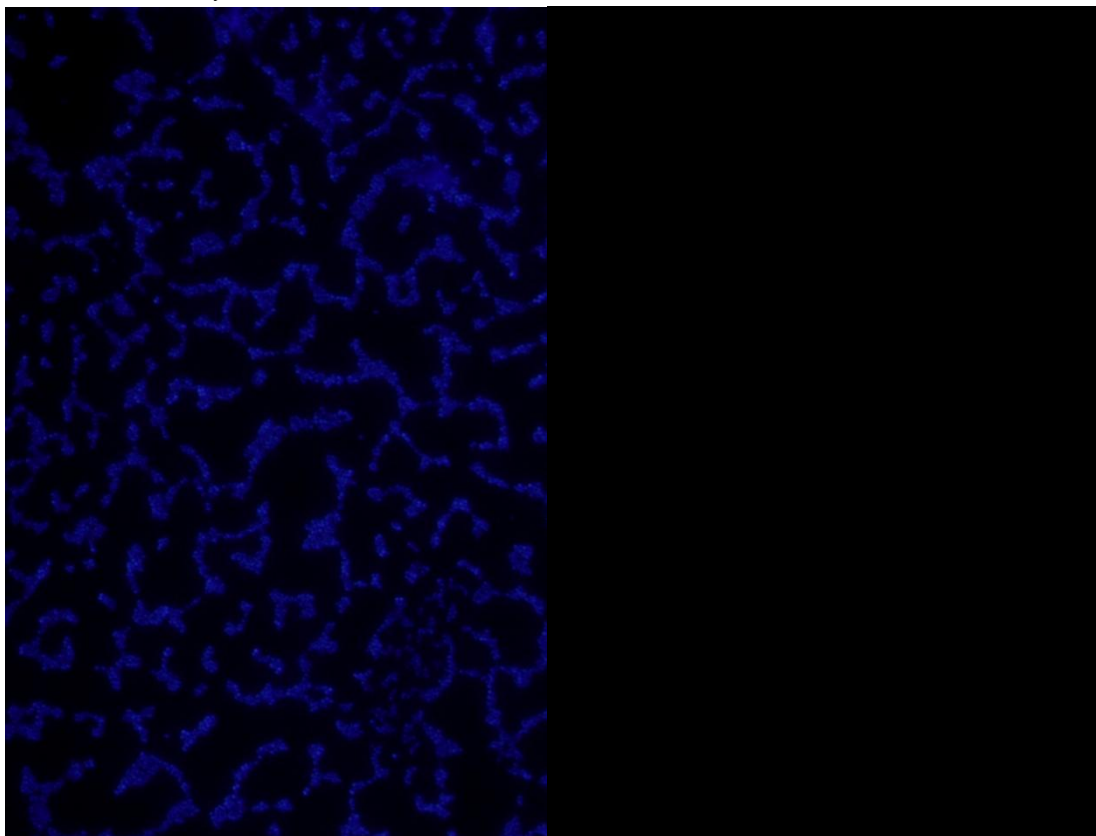


Gardnerella vaginalis

ATCC 14018

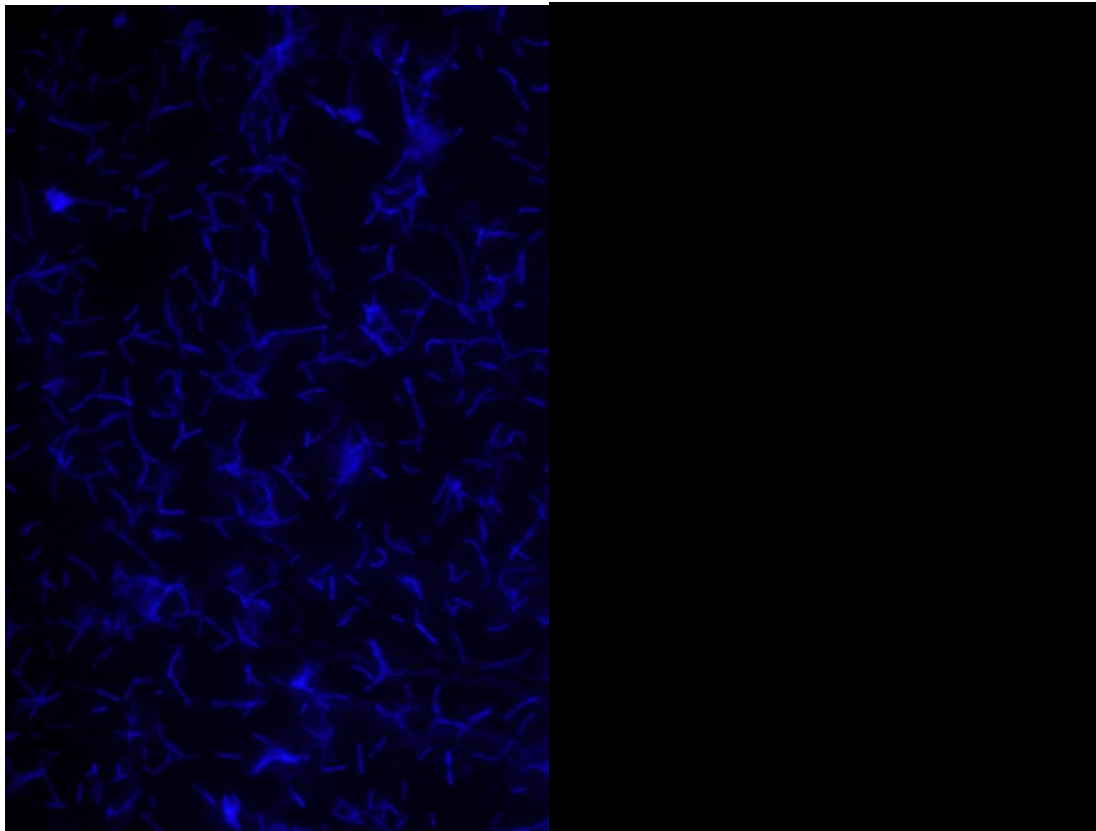


Gemella haemolysans UM034

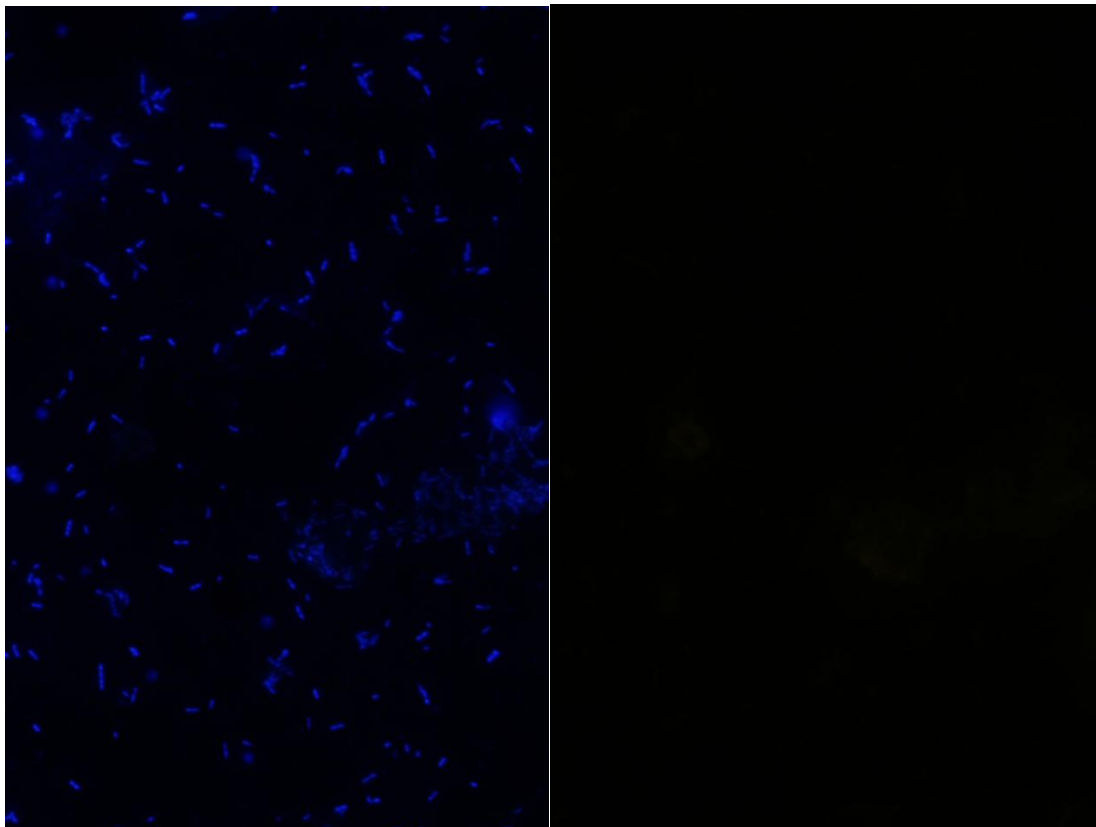


Lactobacillus crispatus

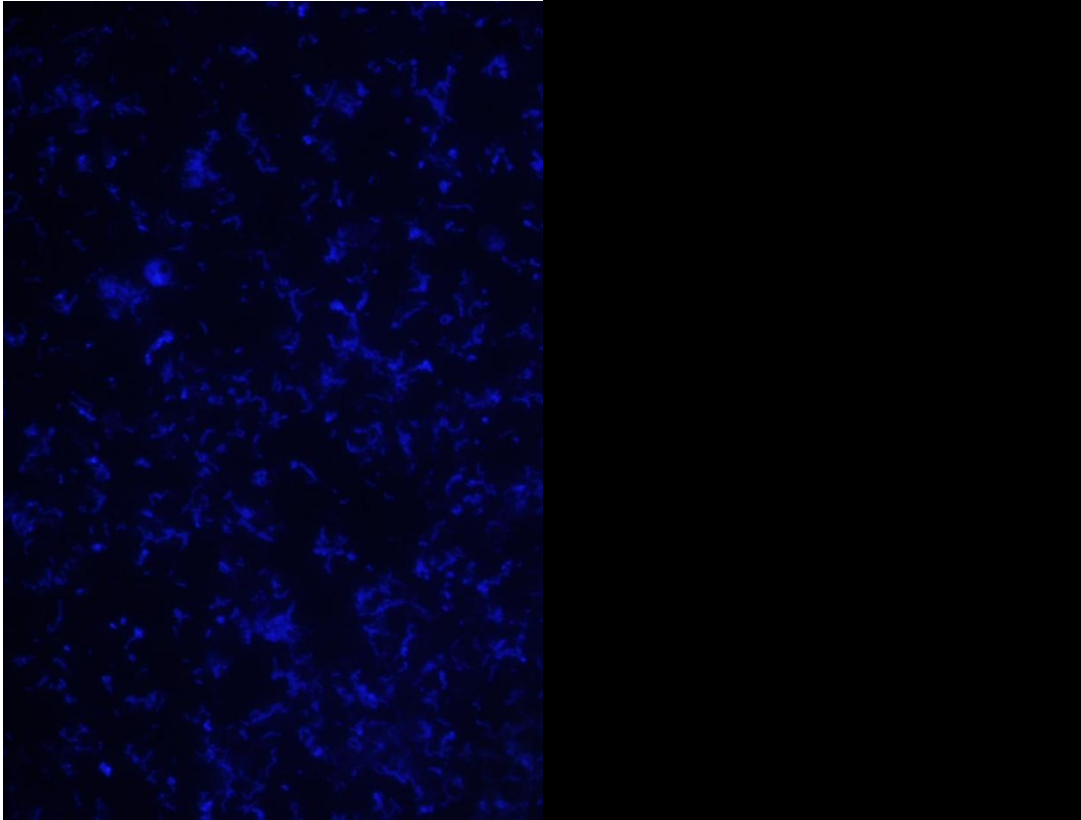
EX533959VCO6



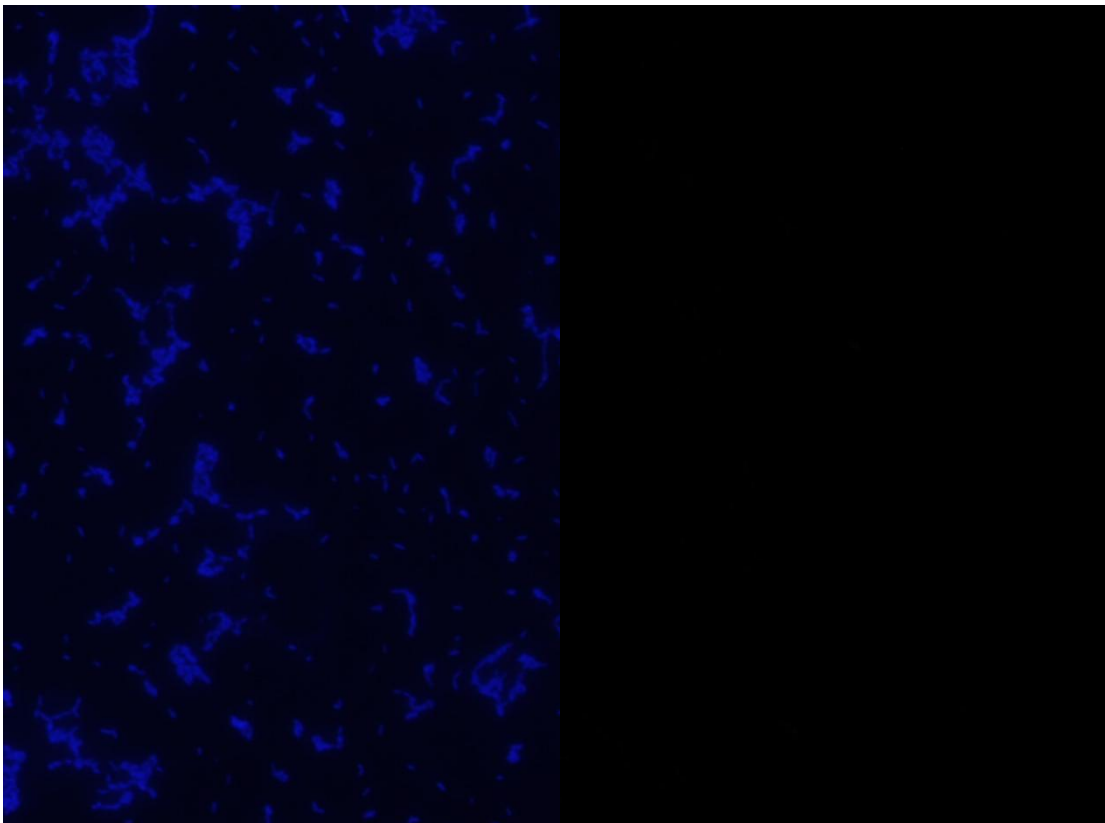
Lactobacillus gasseri ATCC 9857



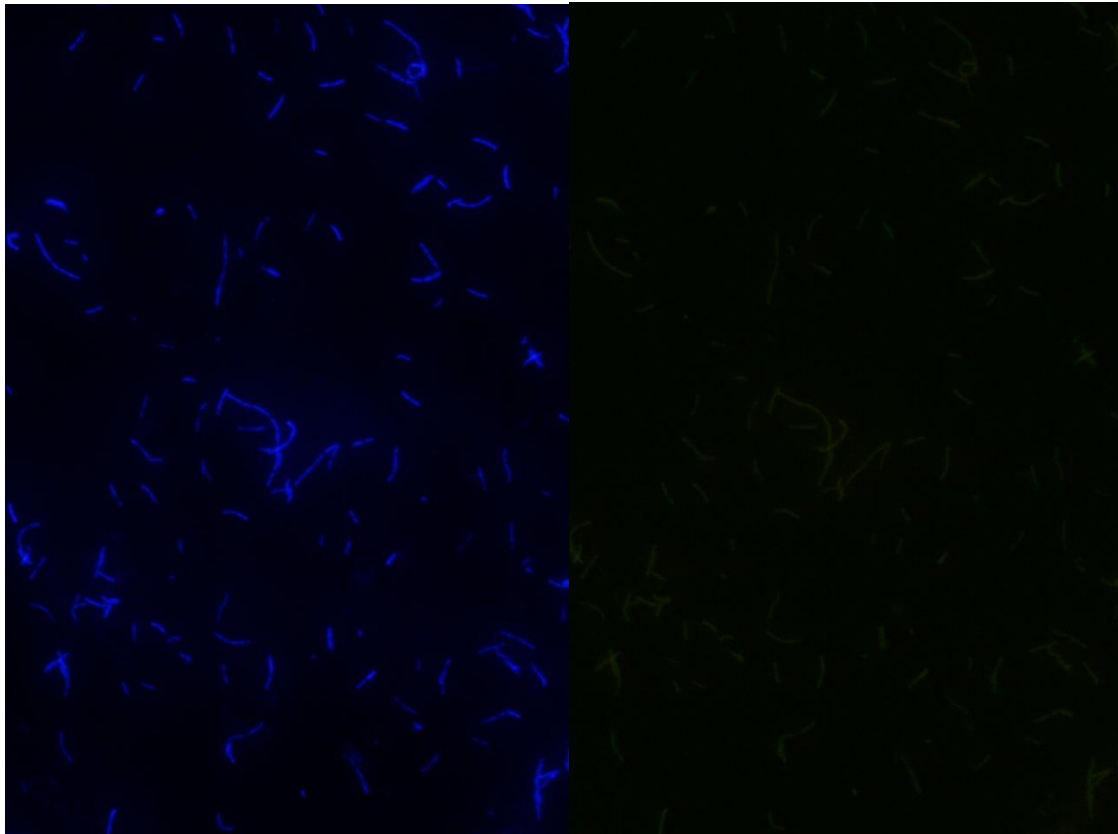
Lactobacillus iners ATCC 55195



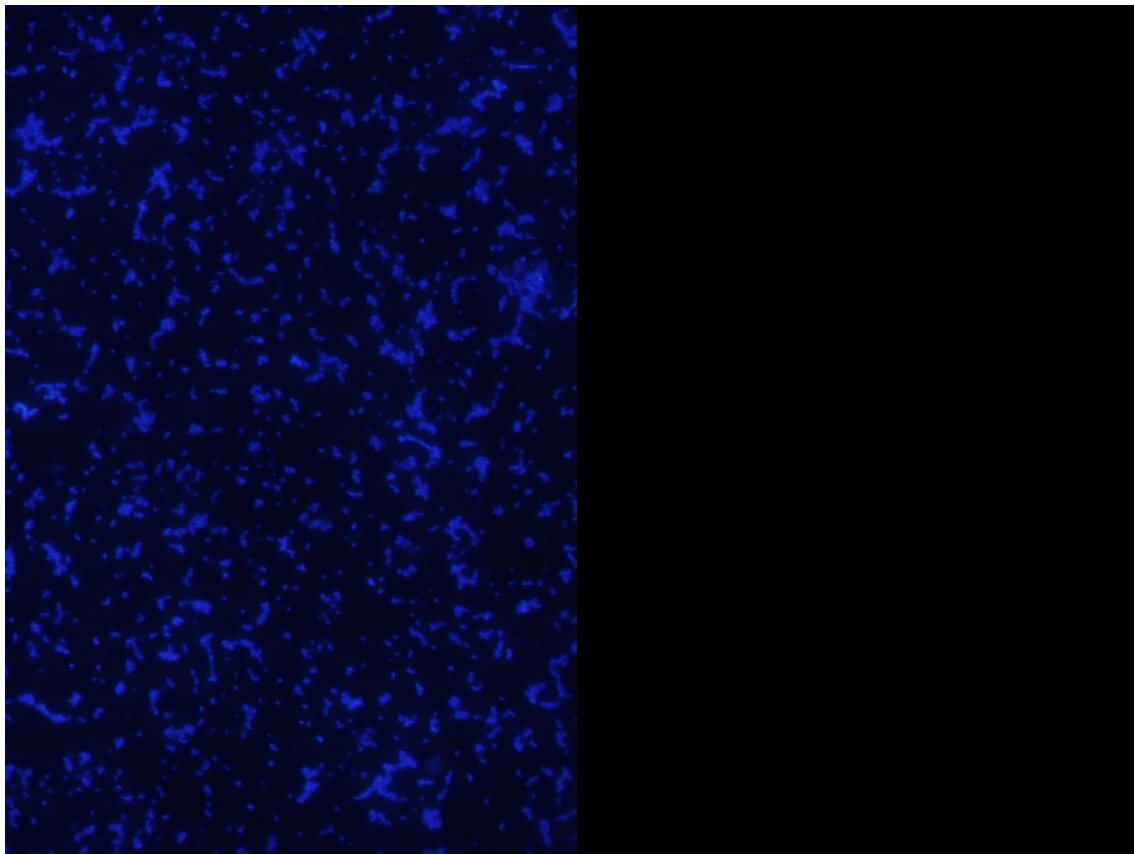
Lactobacillus rhamnosus CECT 288



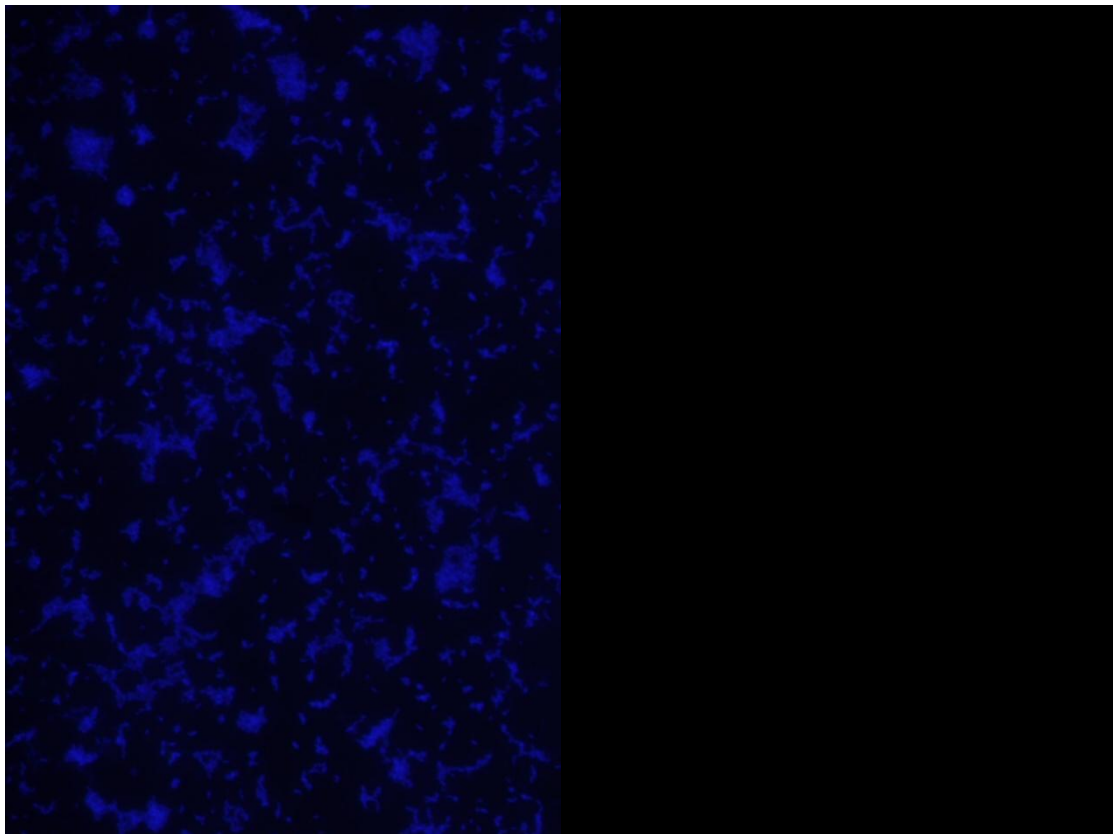
Lactobacillus vaginalis UM062



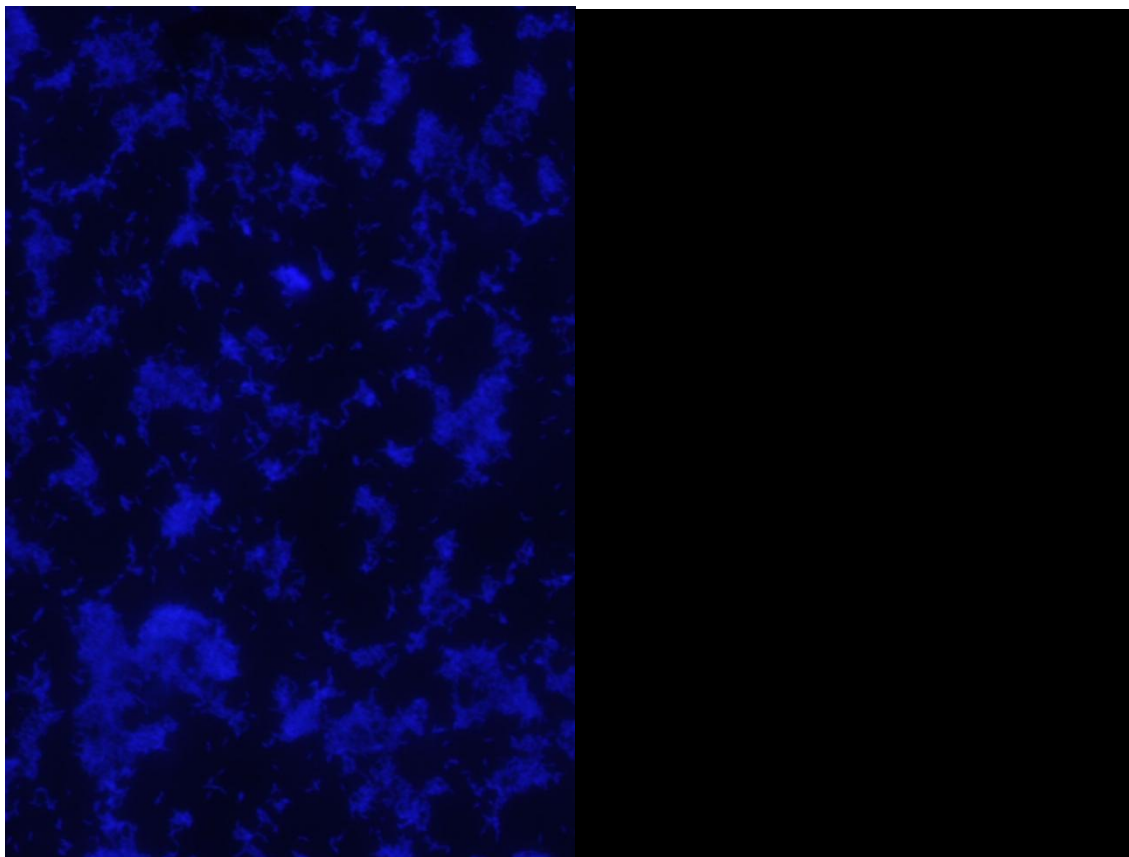
Megasphaera micronuciformis CCUG 45952T



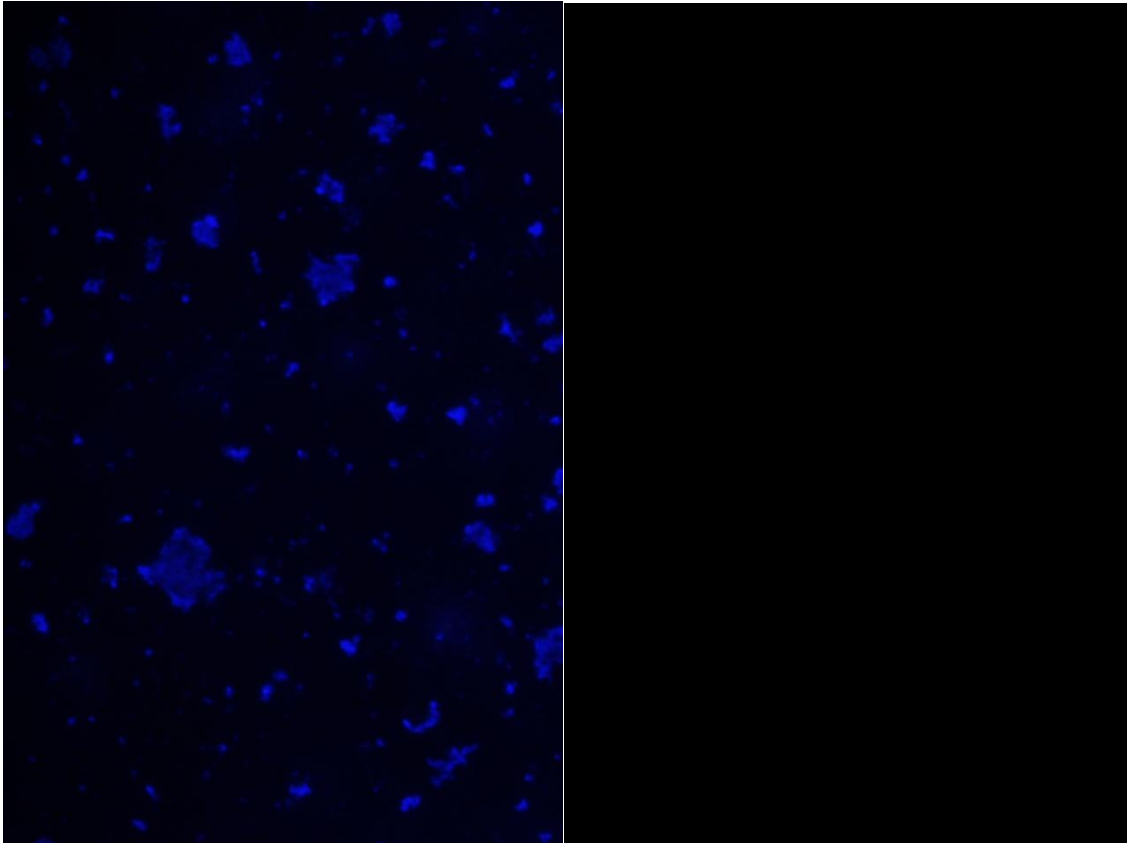
Mobiluncus curtisii ATCC 35241



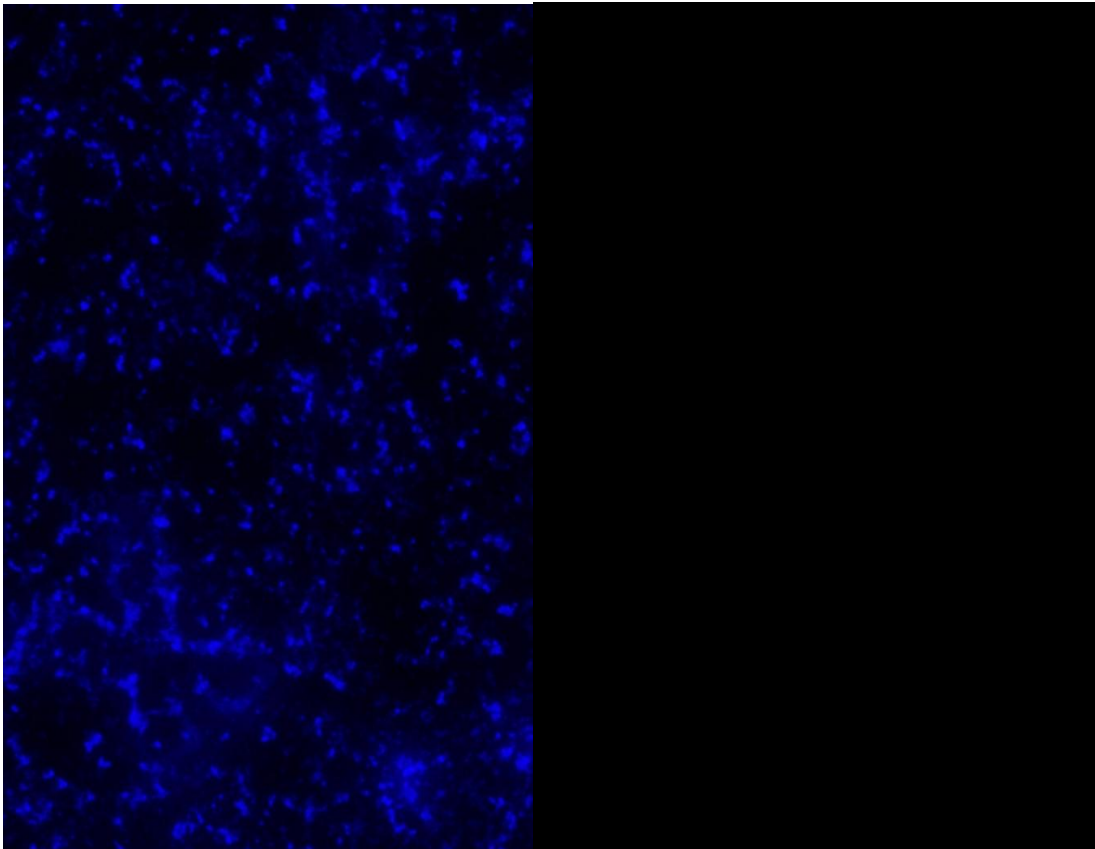
Mobiluncus mulieris ATCC 35239



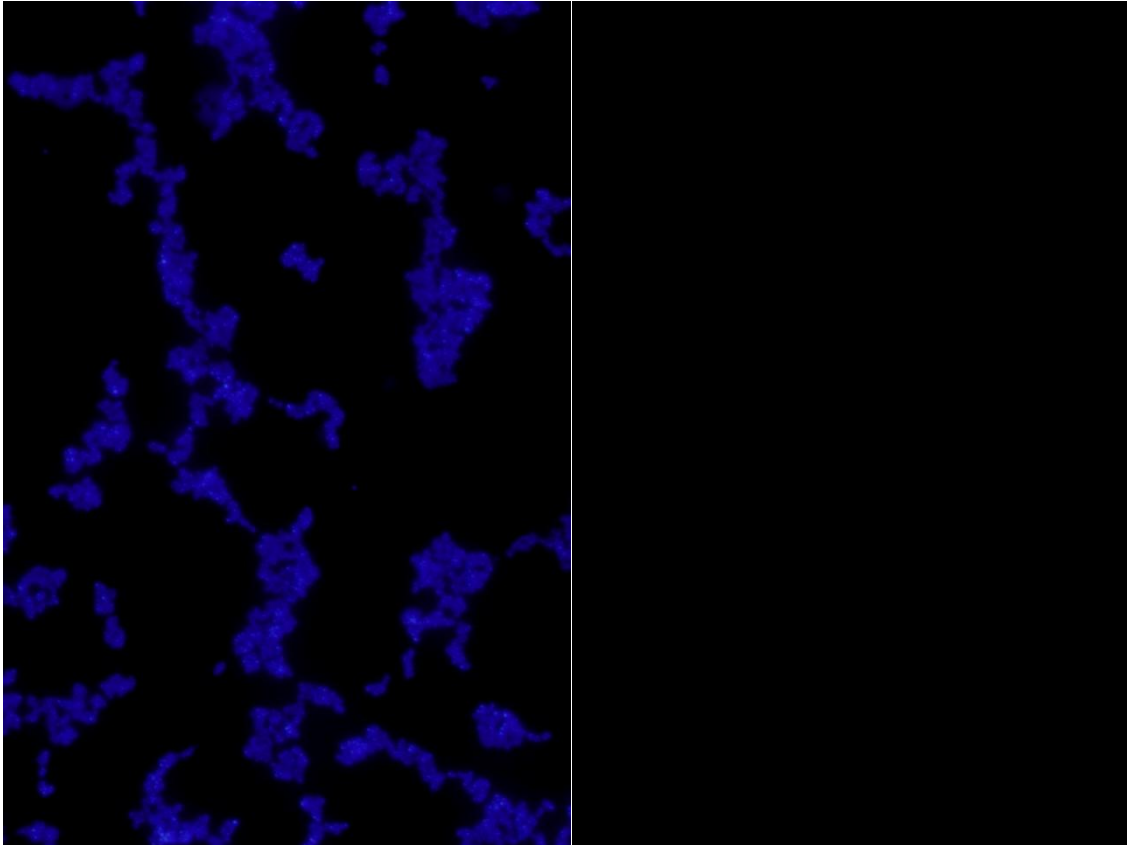
Mycoplasma hominis UM054



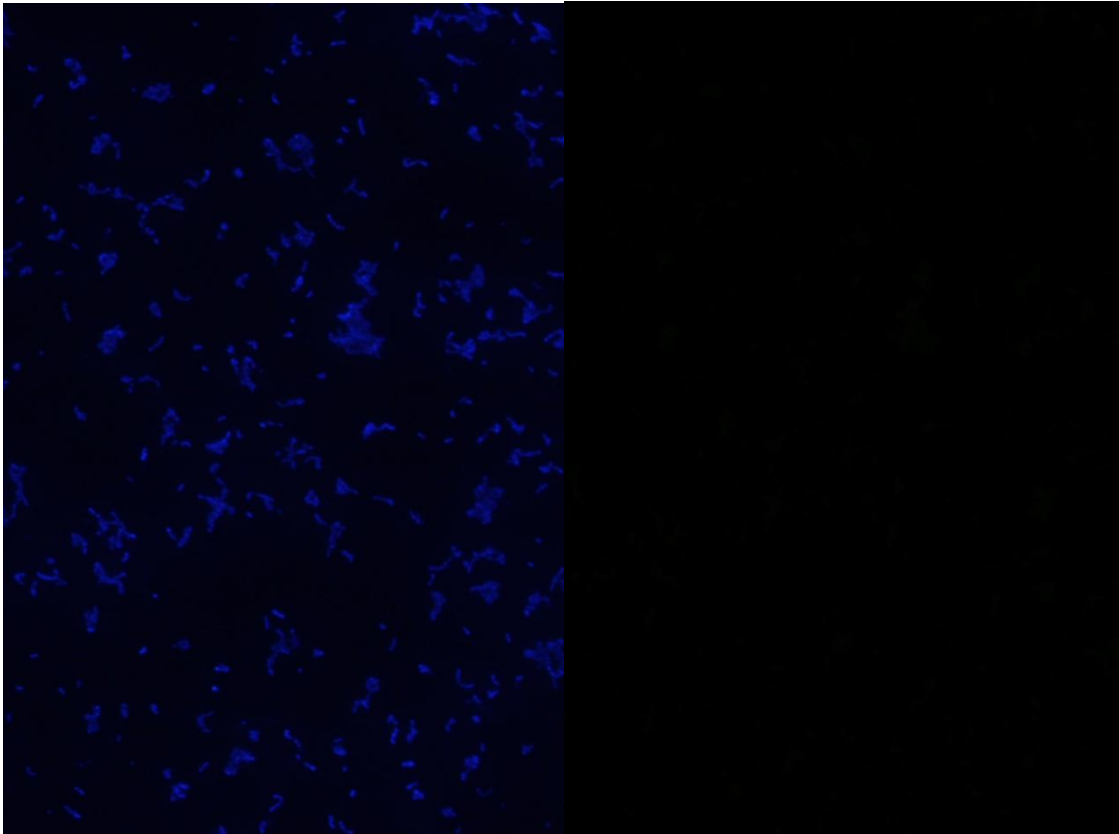
Neisseria gonorrhoeae CCUG 13281



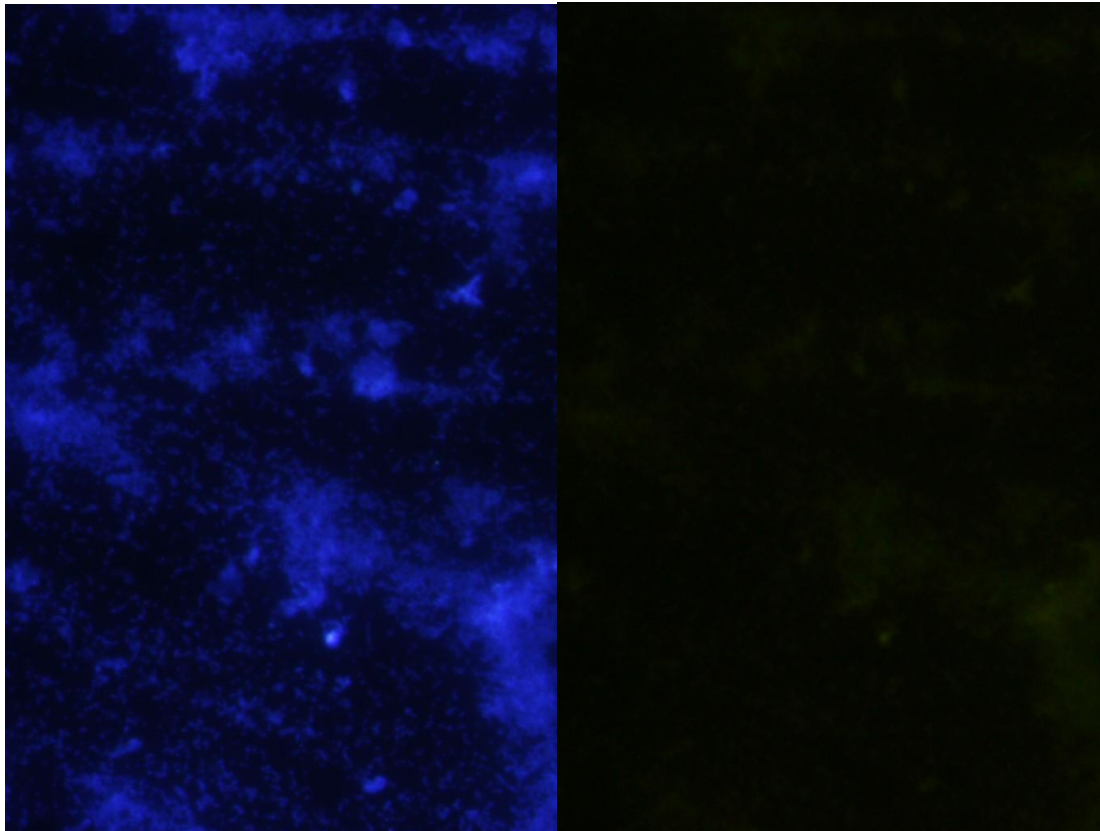
Nosocomiicoccus ampullae UM121



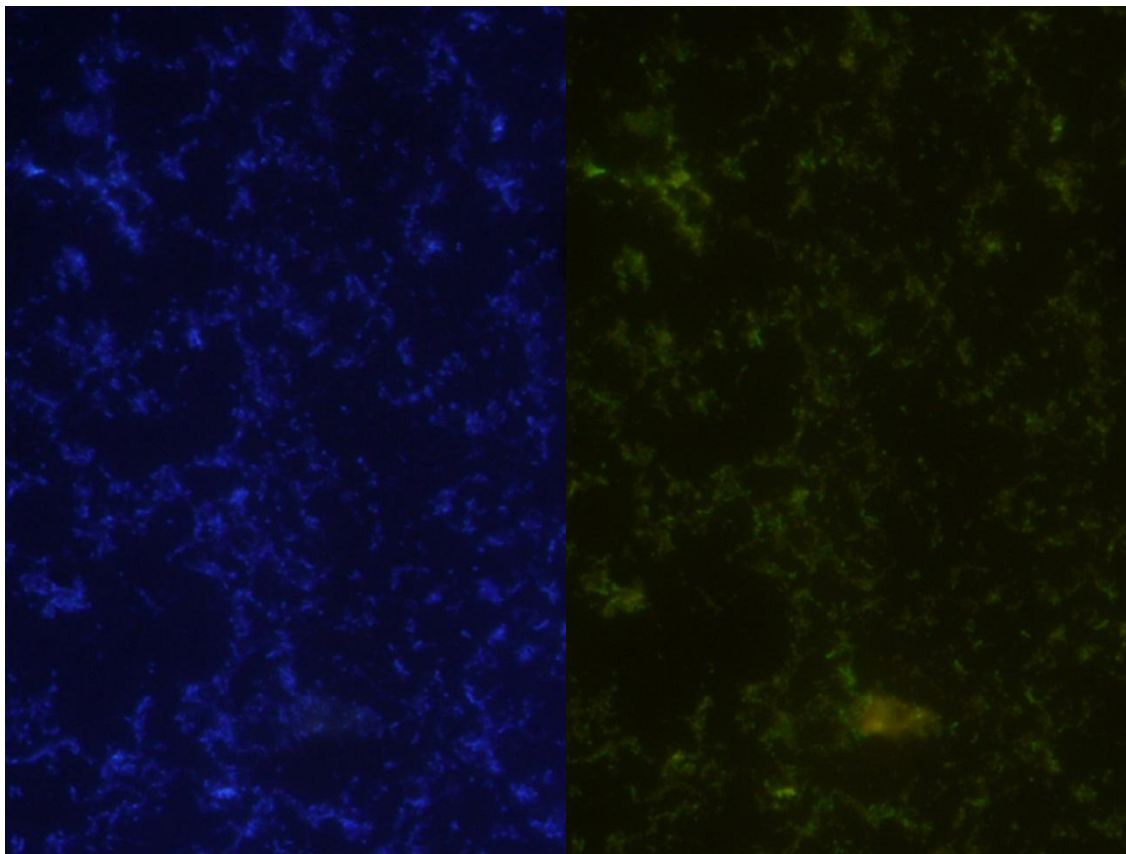
Peptostreptococcus anaerobius ATCC 27337



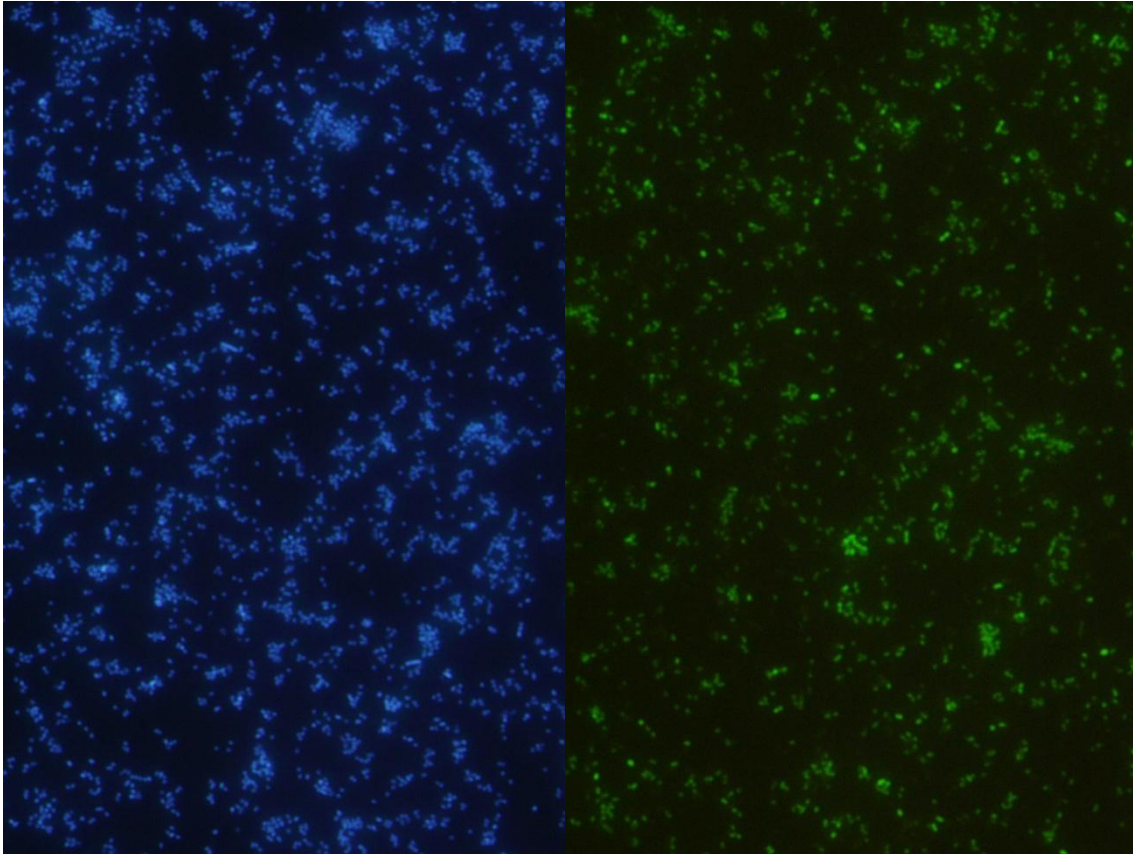
Porphyromonas asaccharolytica CCUG 7834T



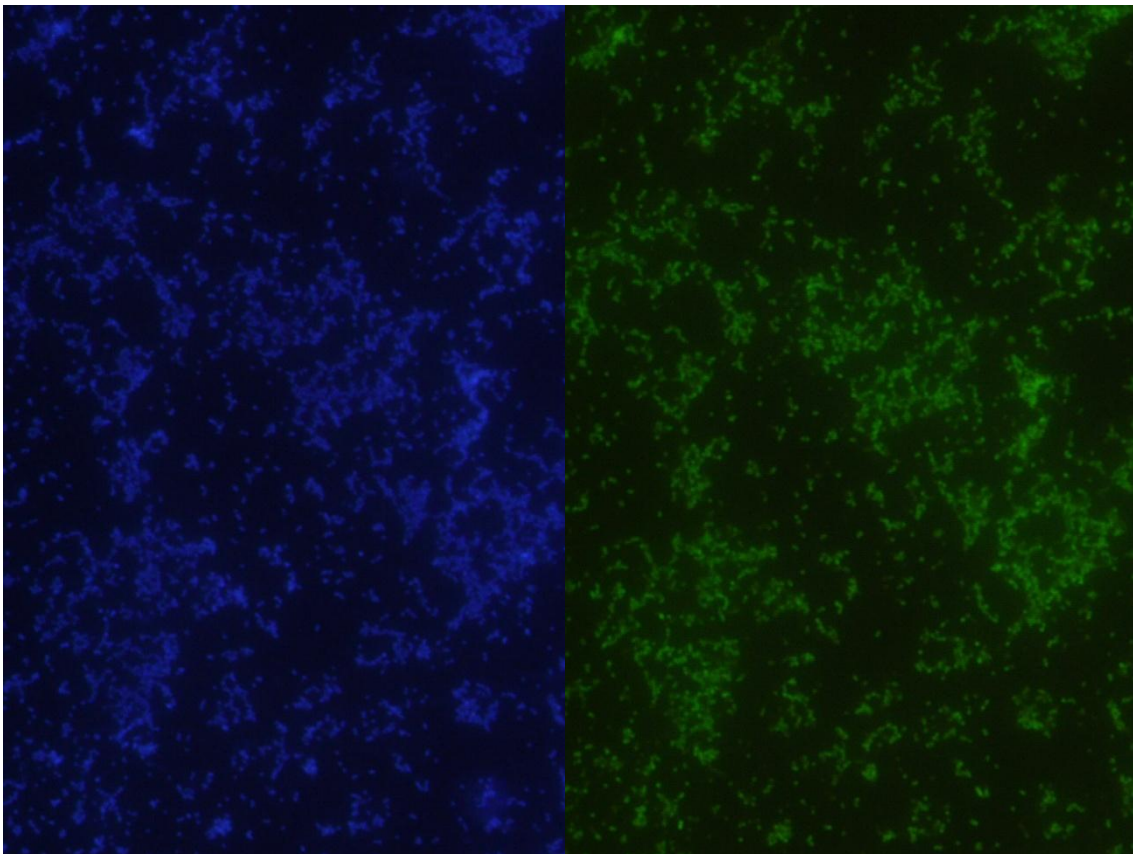
Prevotella amnii CCUG 53648



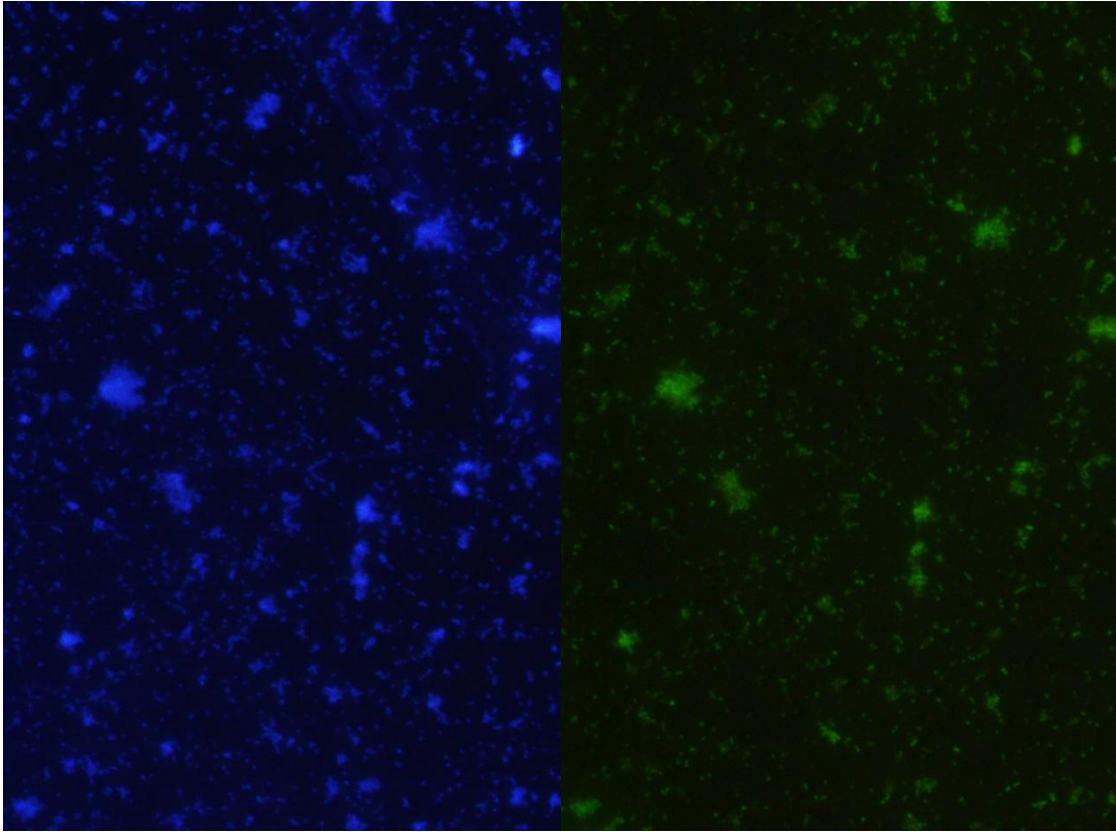
Prevotella bivia ATCC 29303



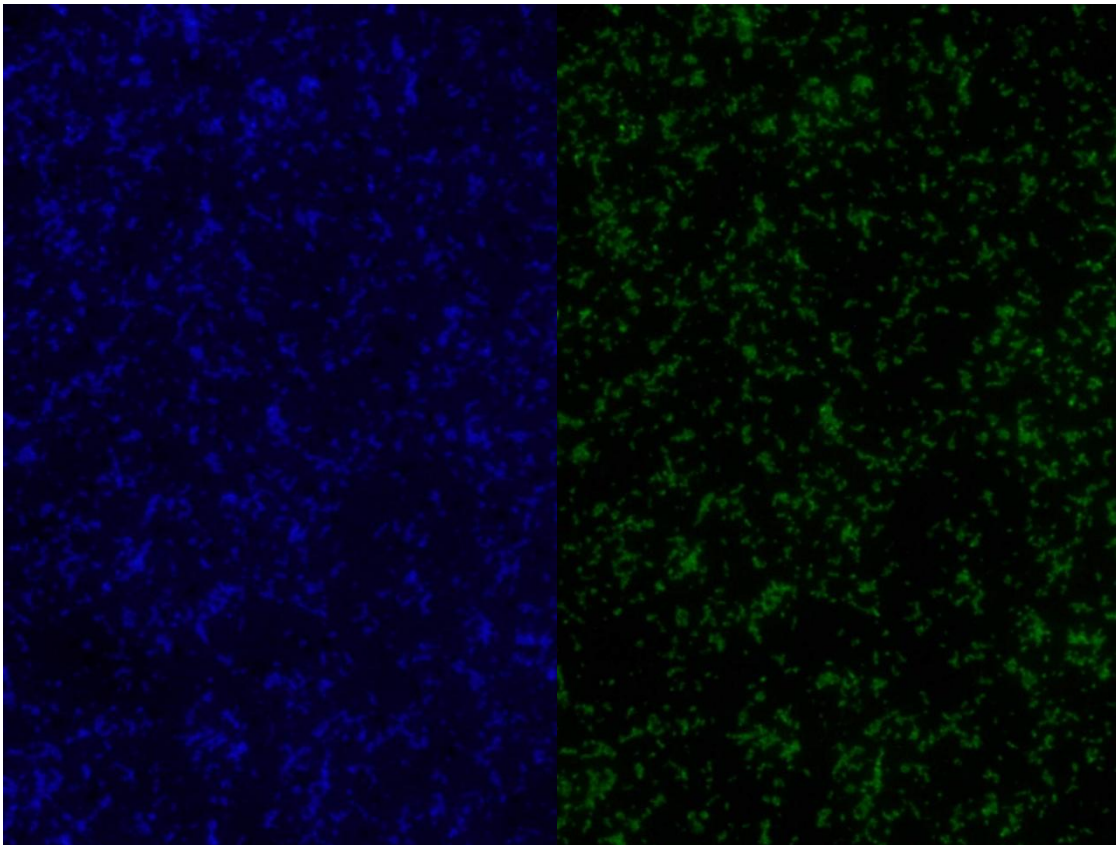
Prevotella bivia CCUG 33360



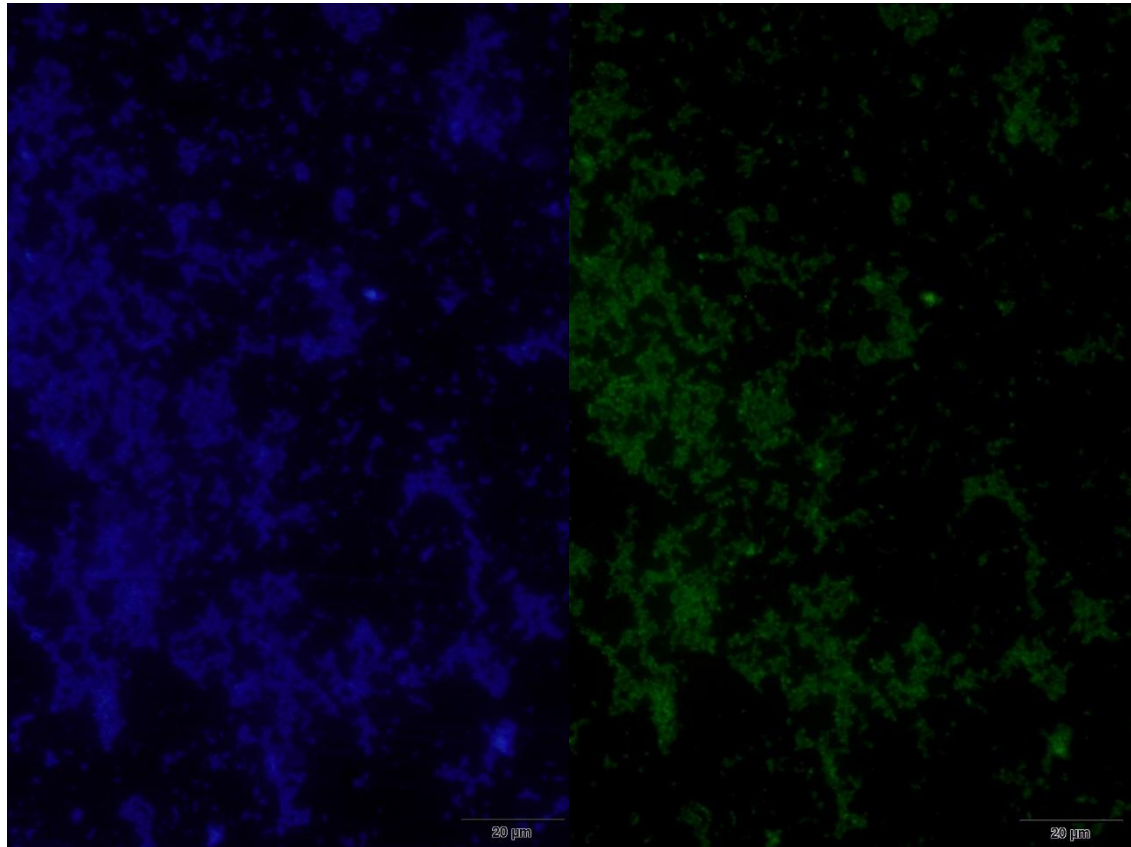
Prevotella bivia CCUG 34046



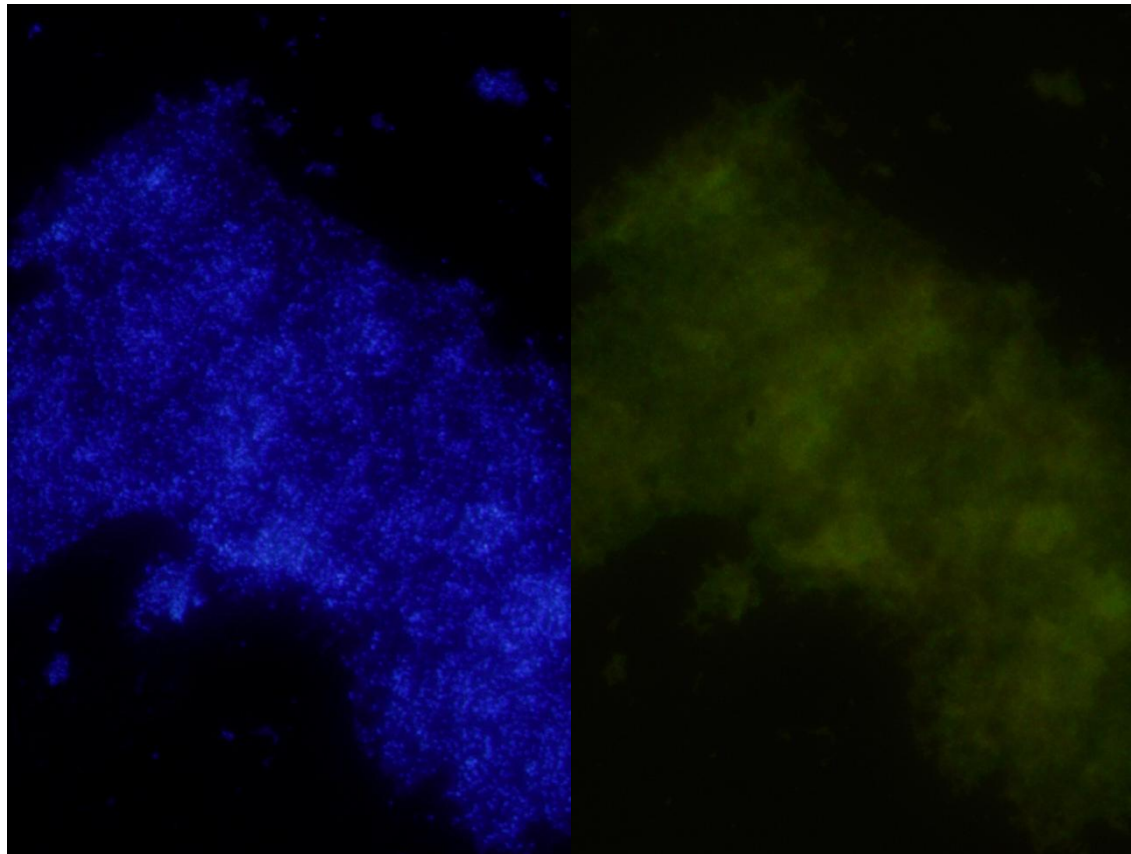
Prevotella bivia CCUG 44195



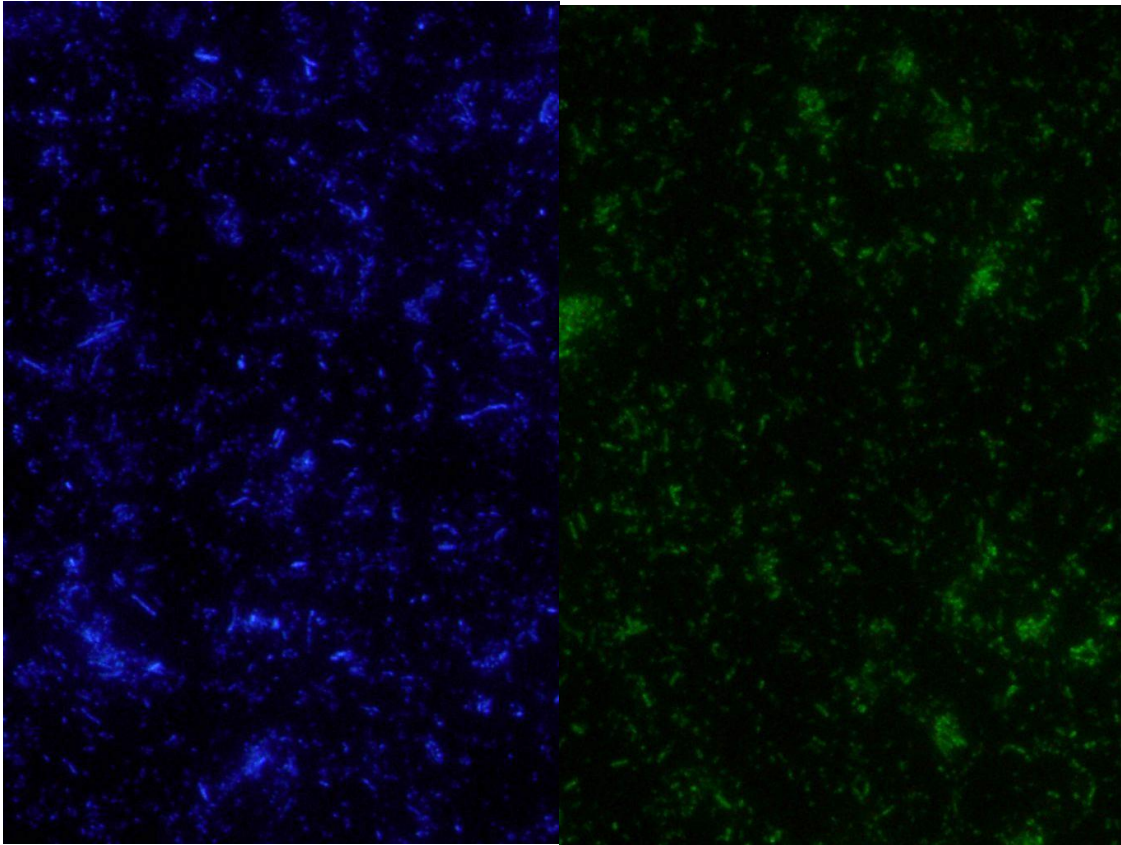
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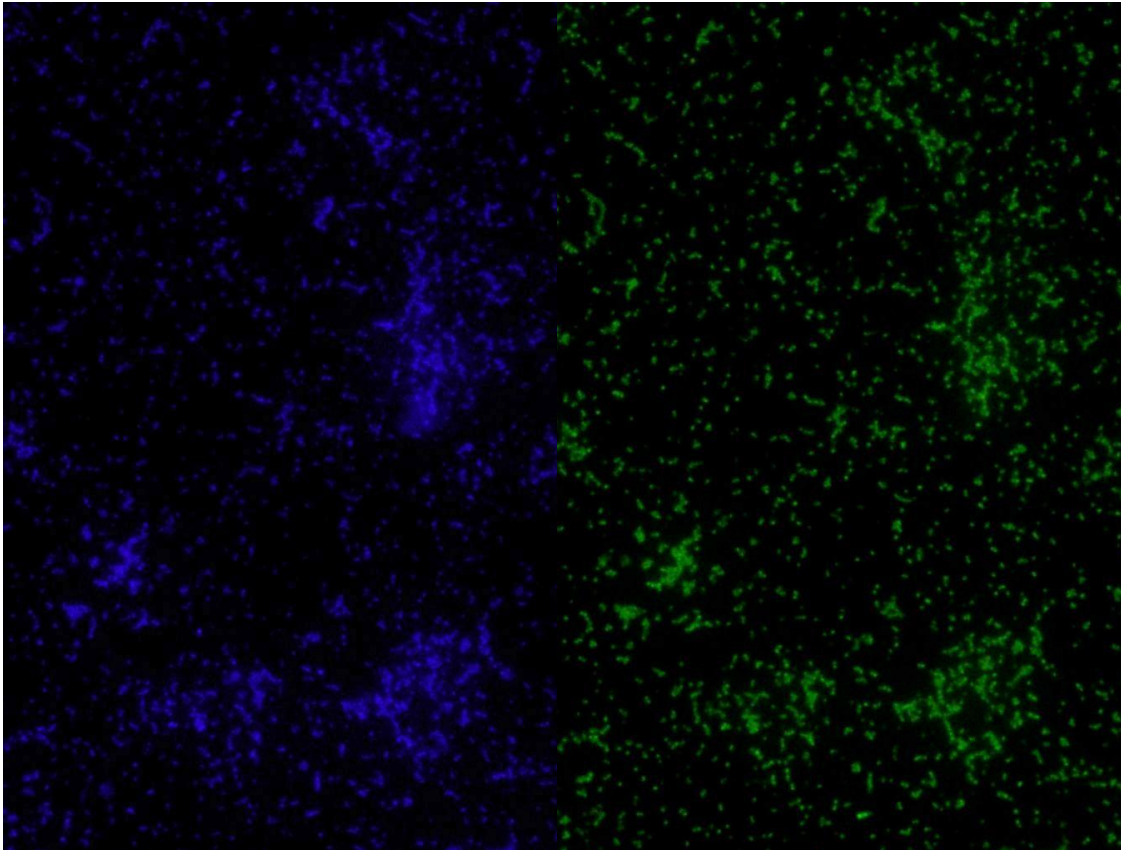
Prevotella brunnea CCUG 72809



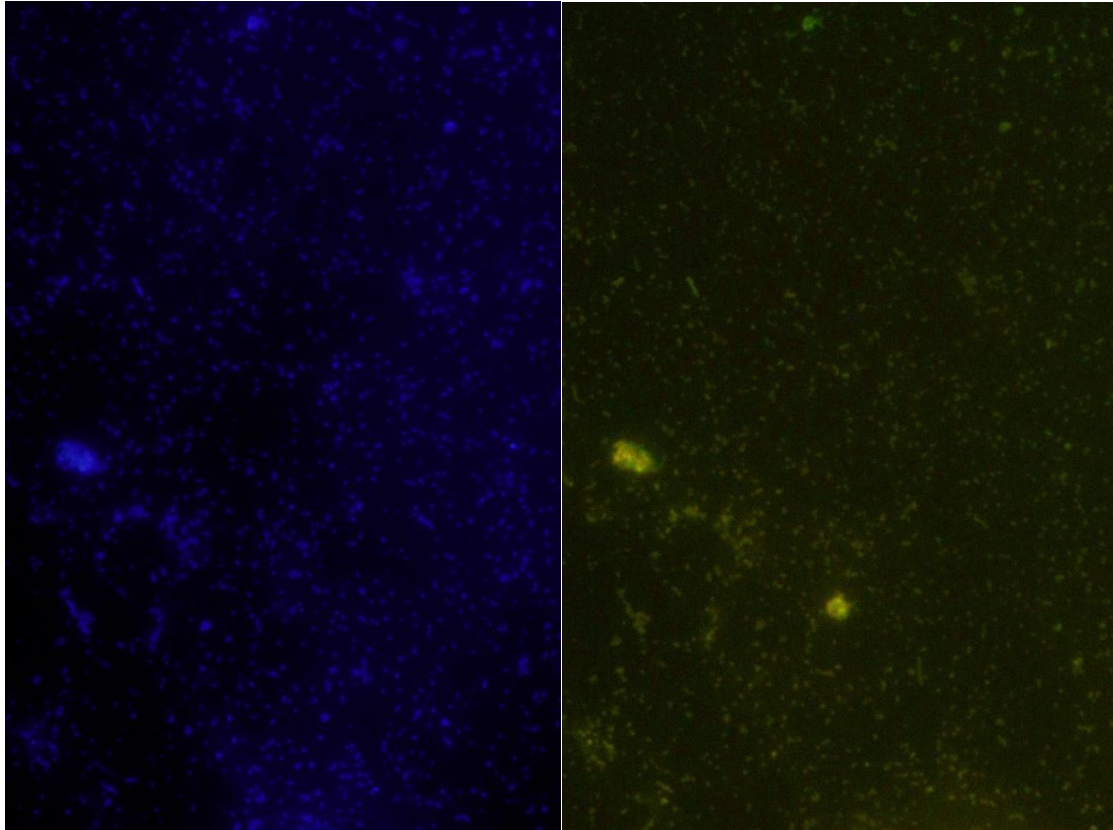
Prevotella buccalis CCUG 44127



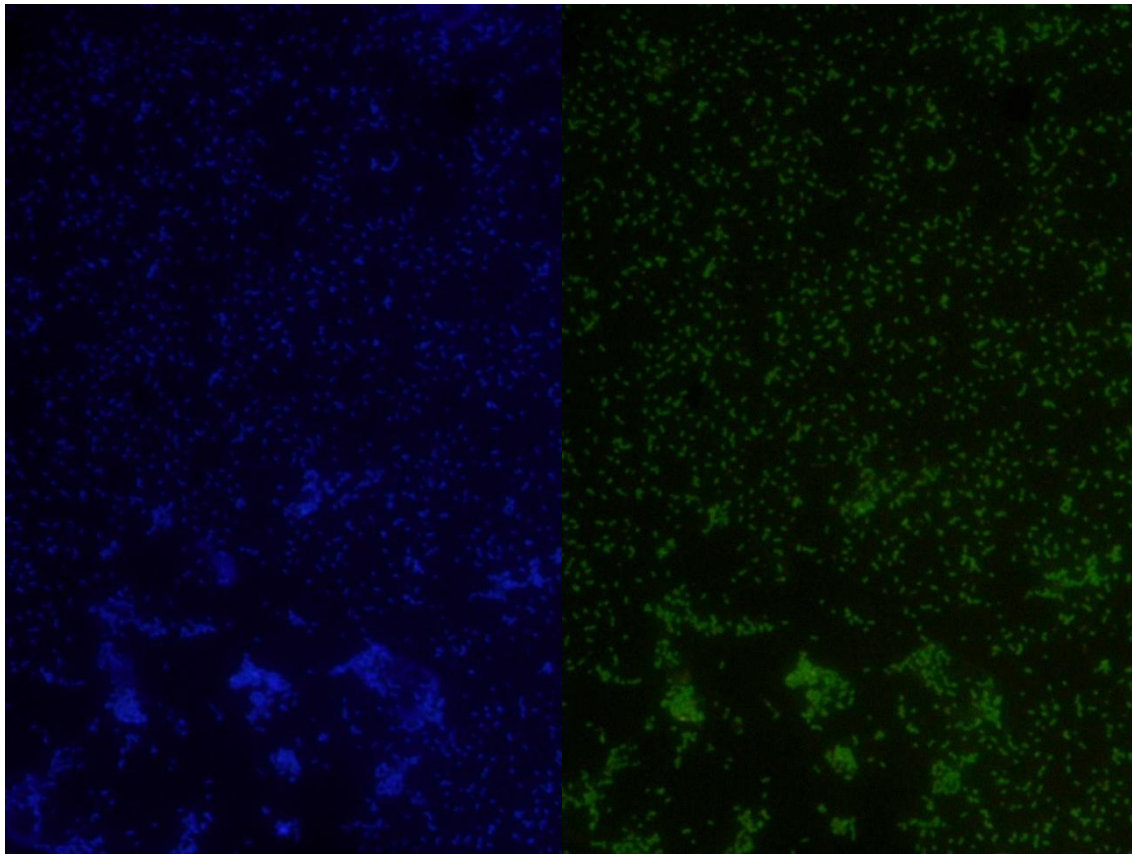
Prevotella copri CCUG 58058T



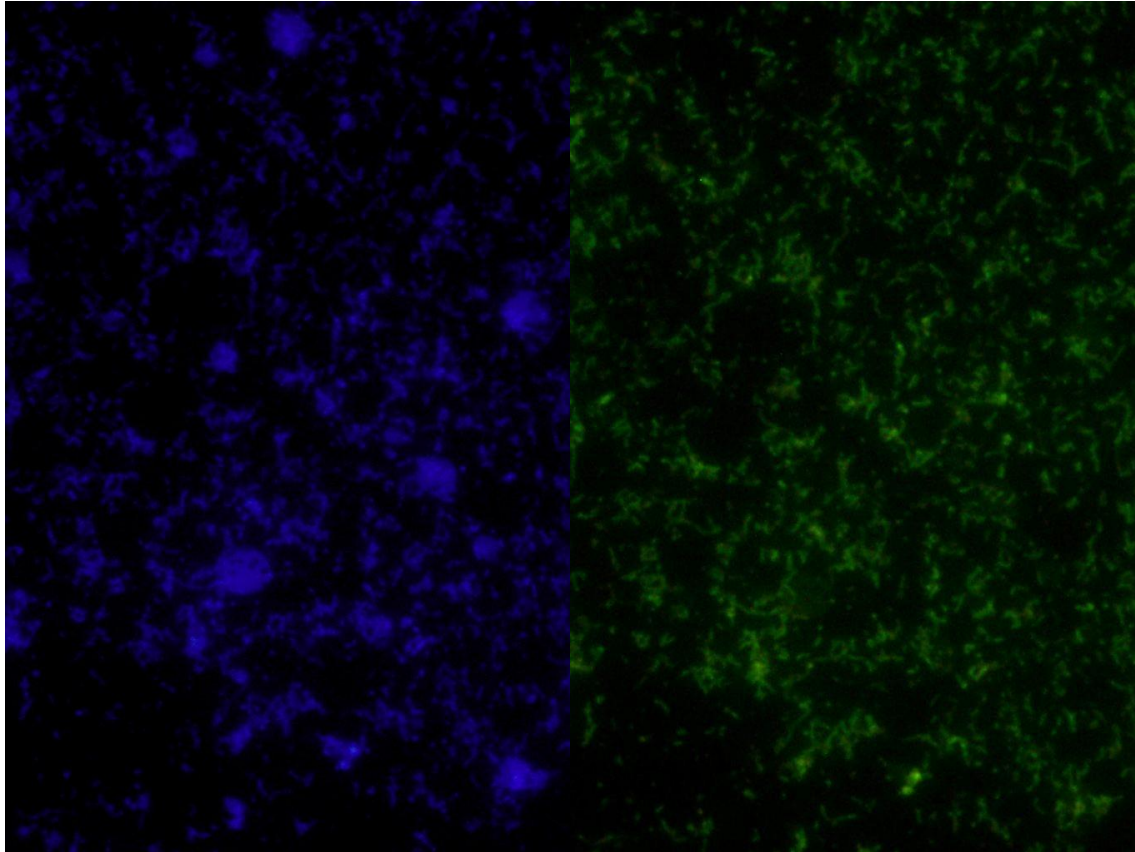
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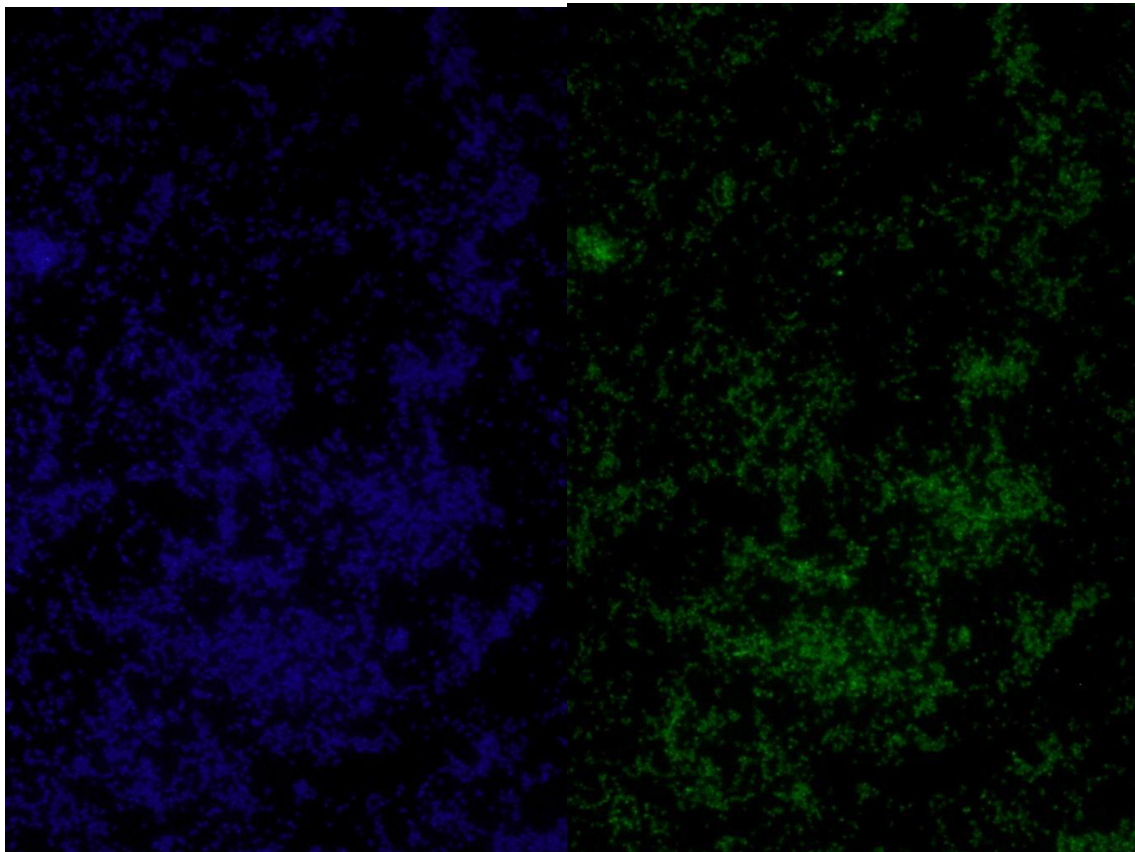
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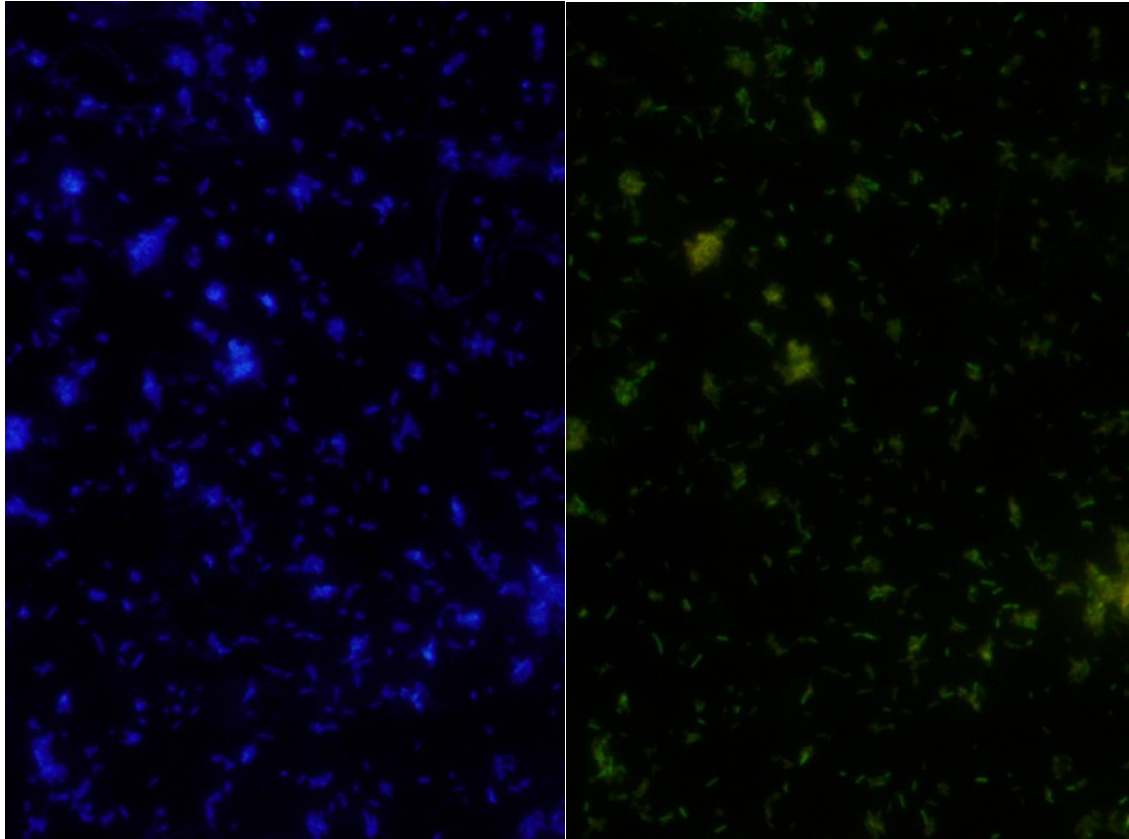
Prevotella denticola CCUG 29542T



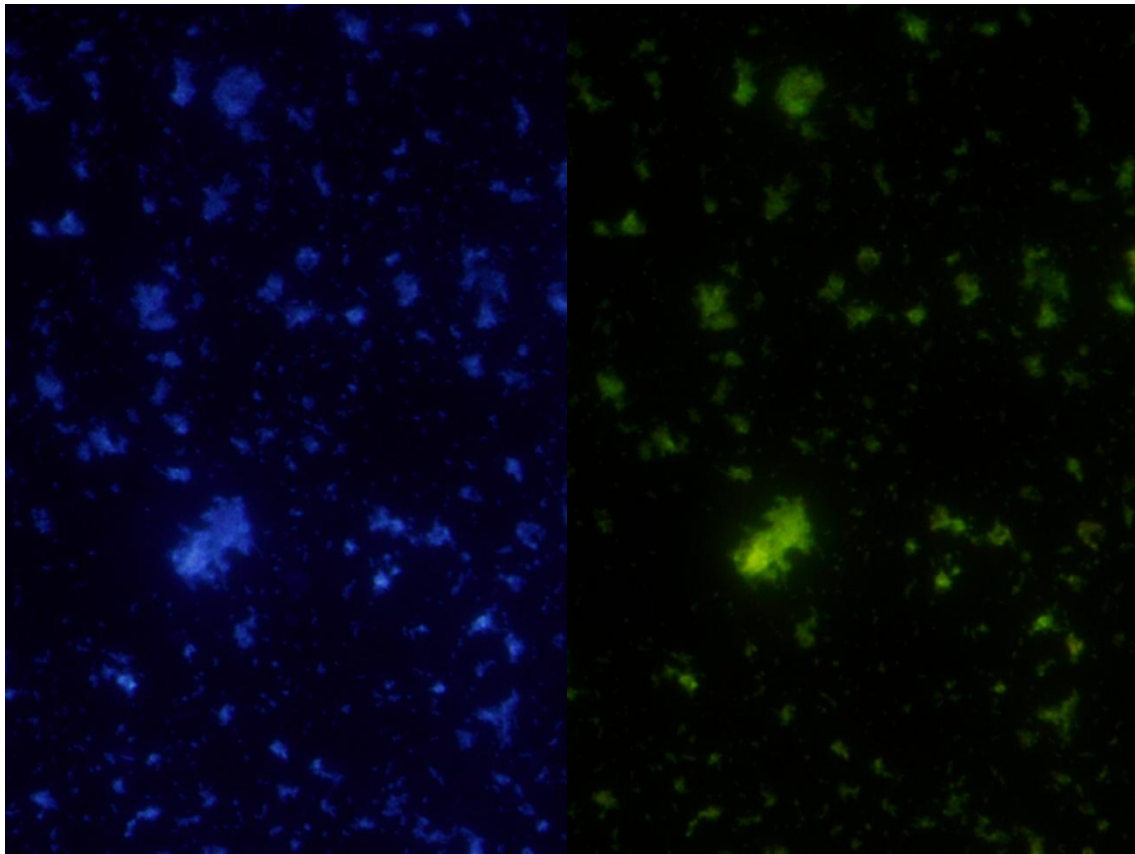
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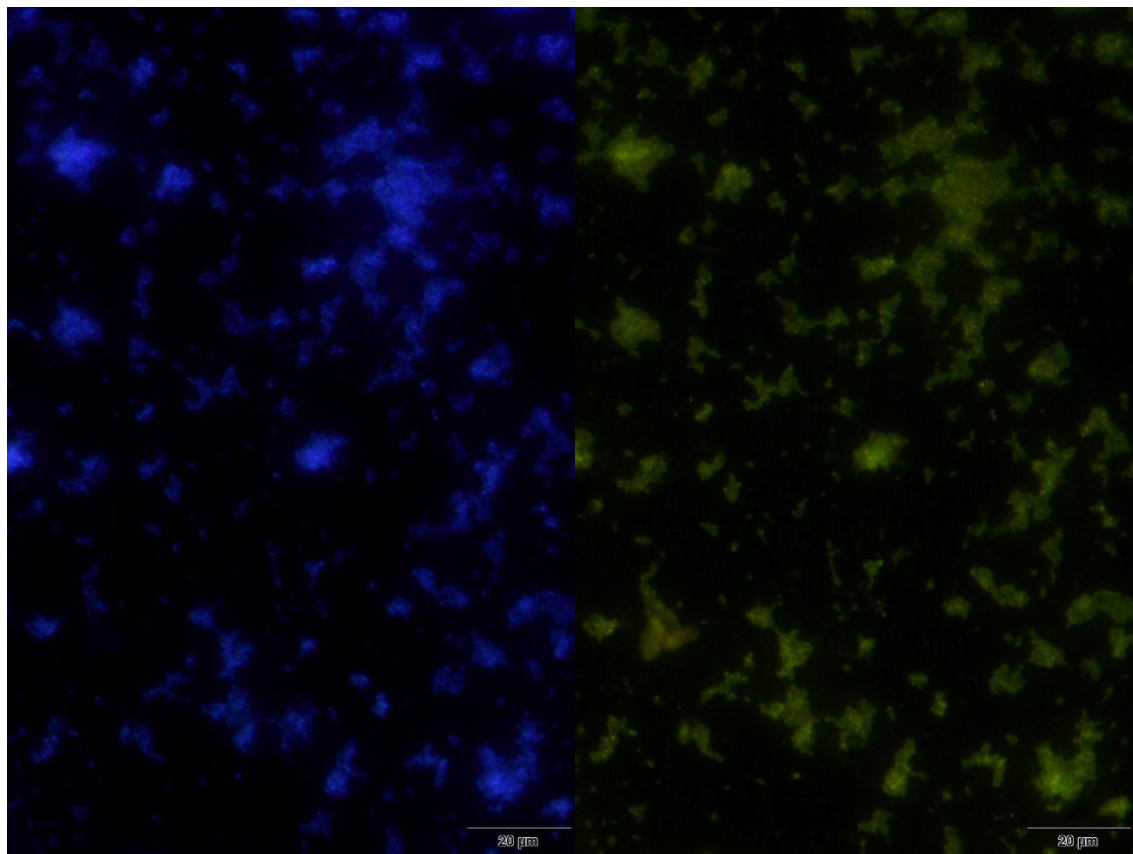
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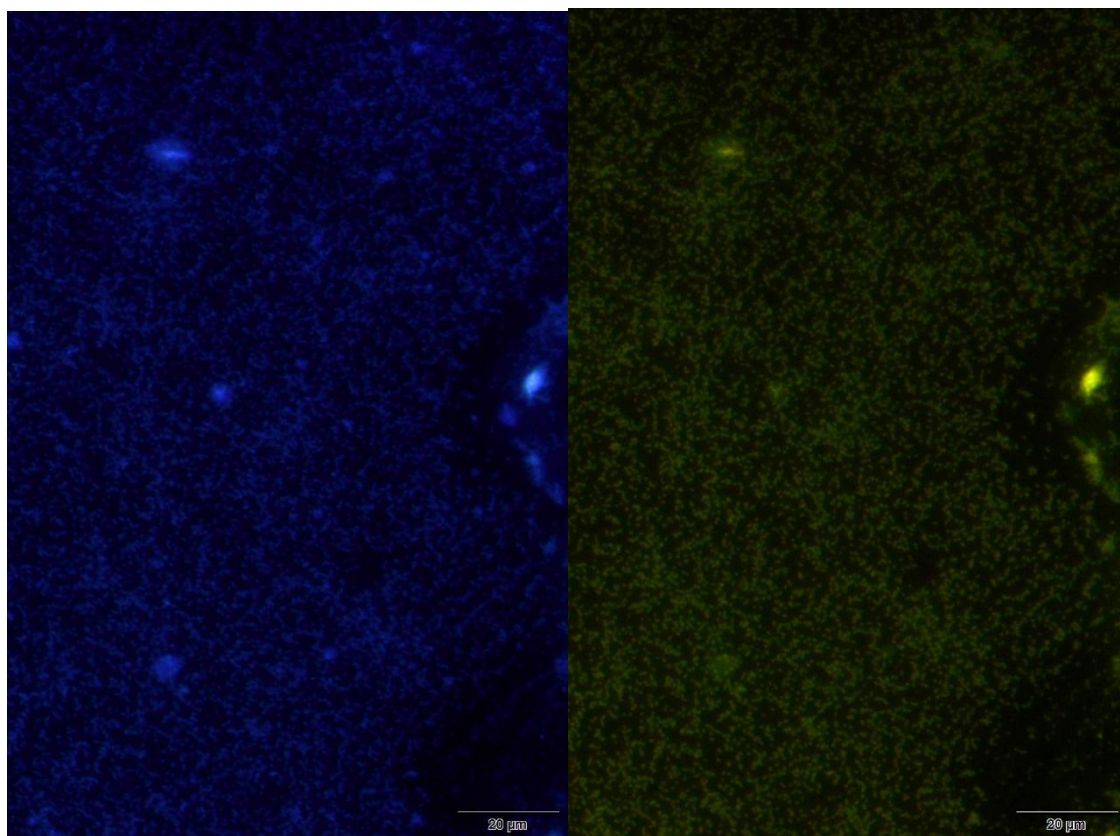
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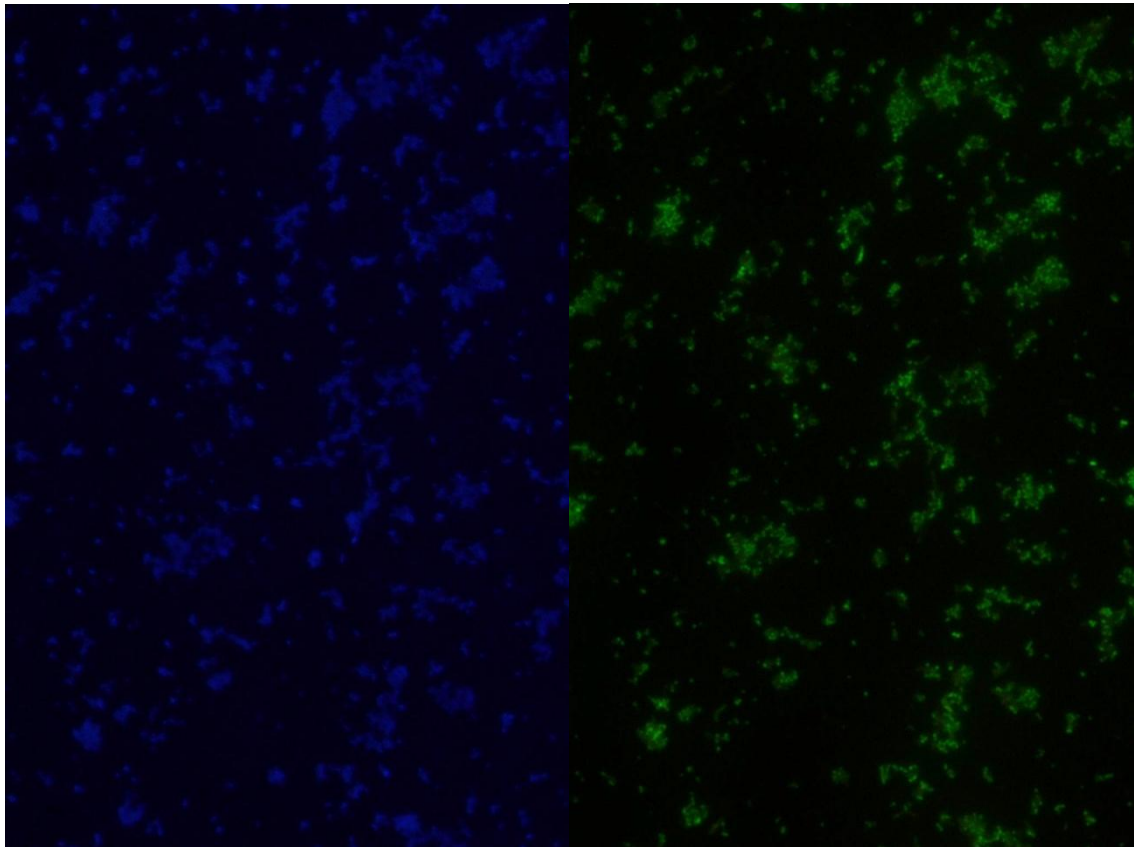
Prevotella illustrans CCUG 72806



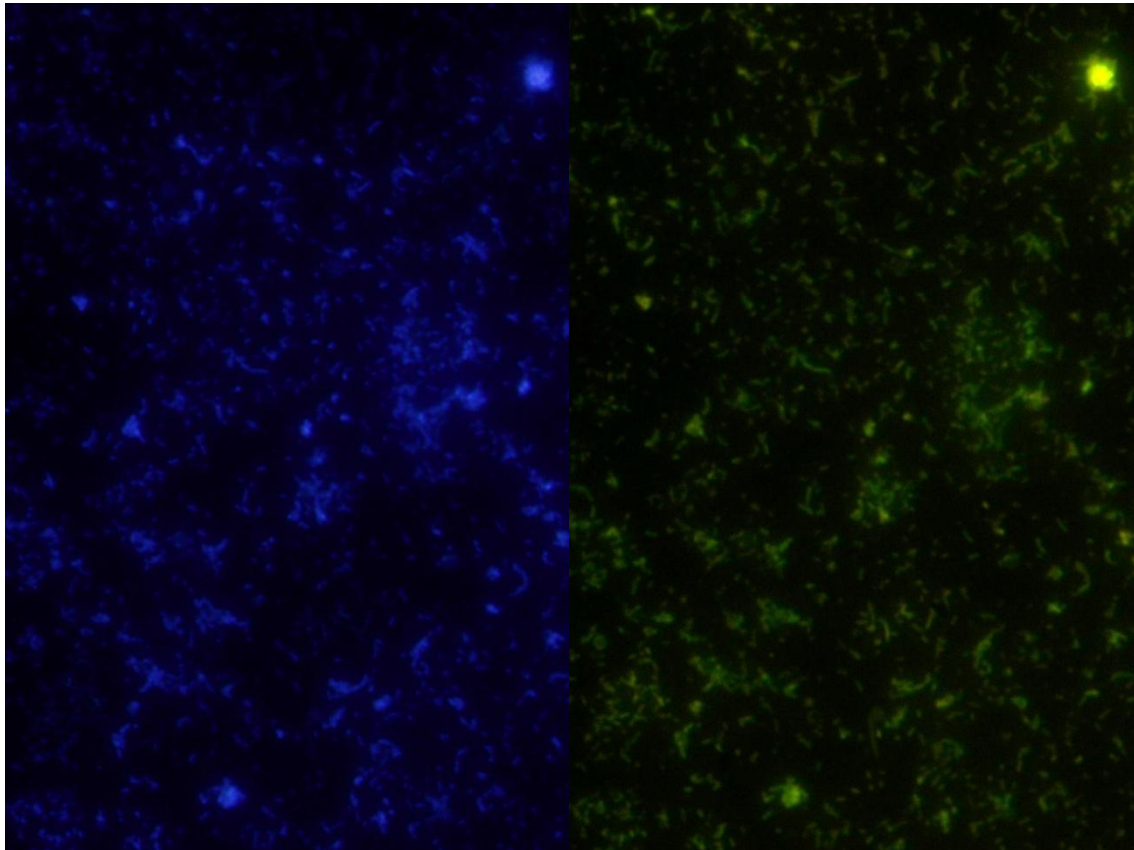
Prevotella imum CCUG 65911



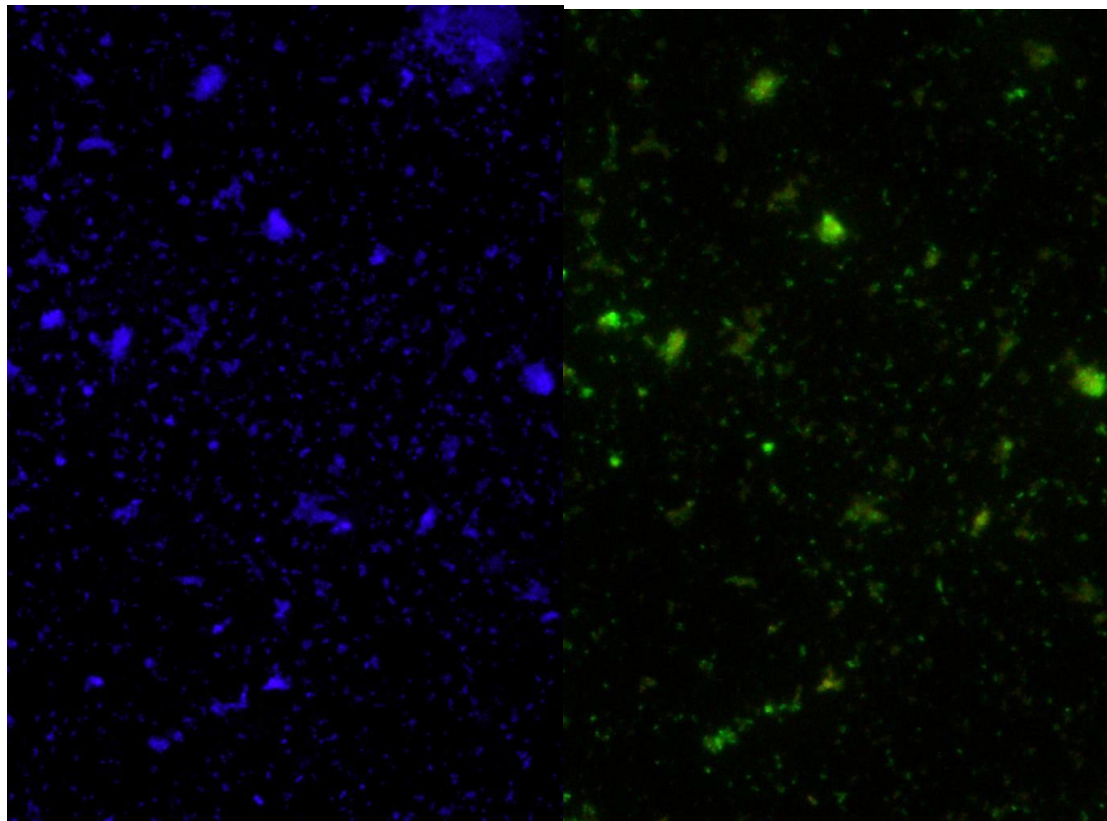
Prevotella intermedia CCUG 31410



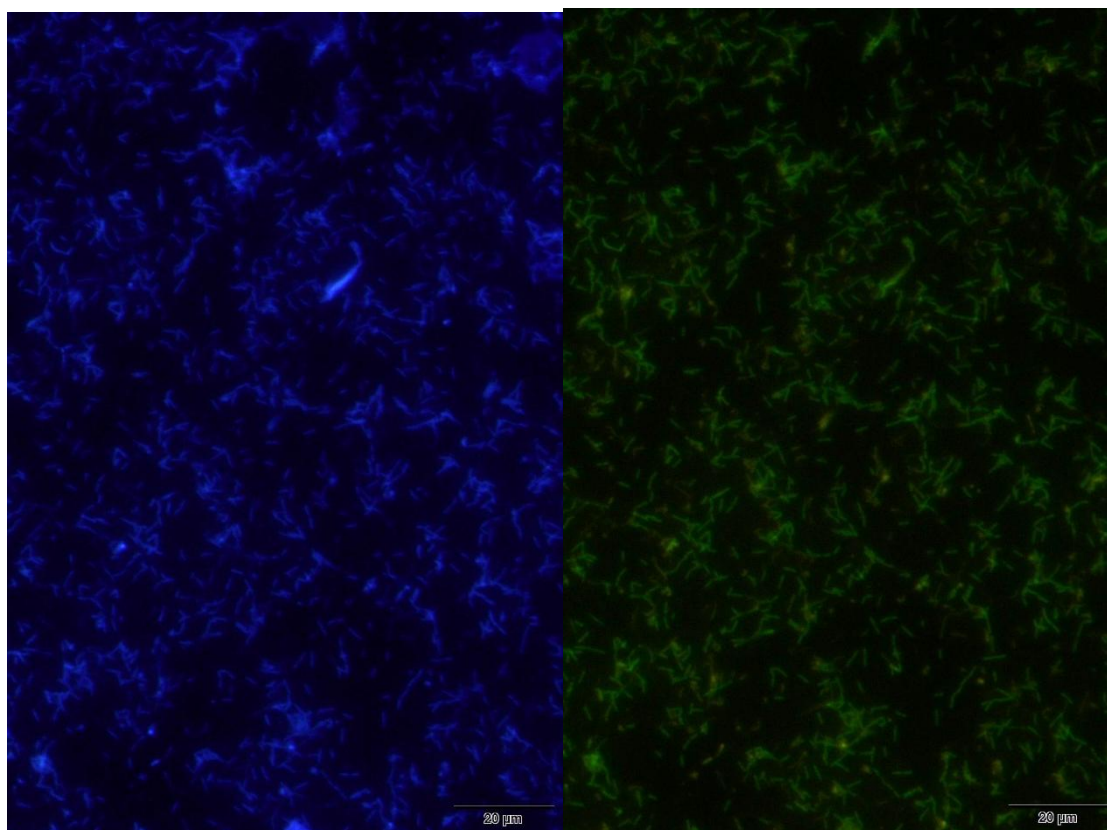
Prevotella jejuni CCUG 60371



Prevotella melaninogenica CCUG 65141

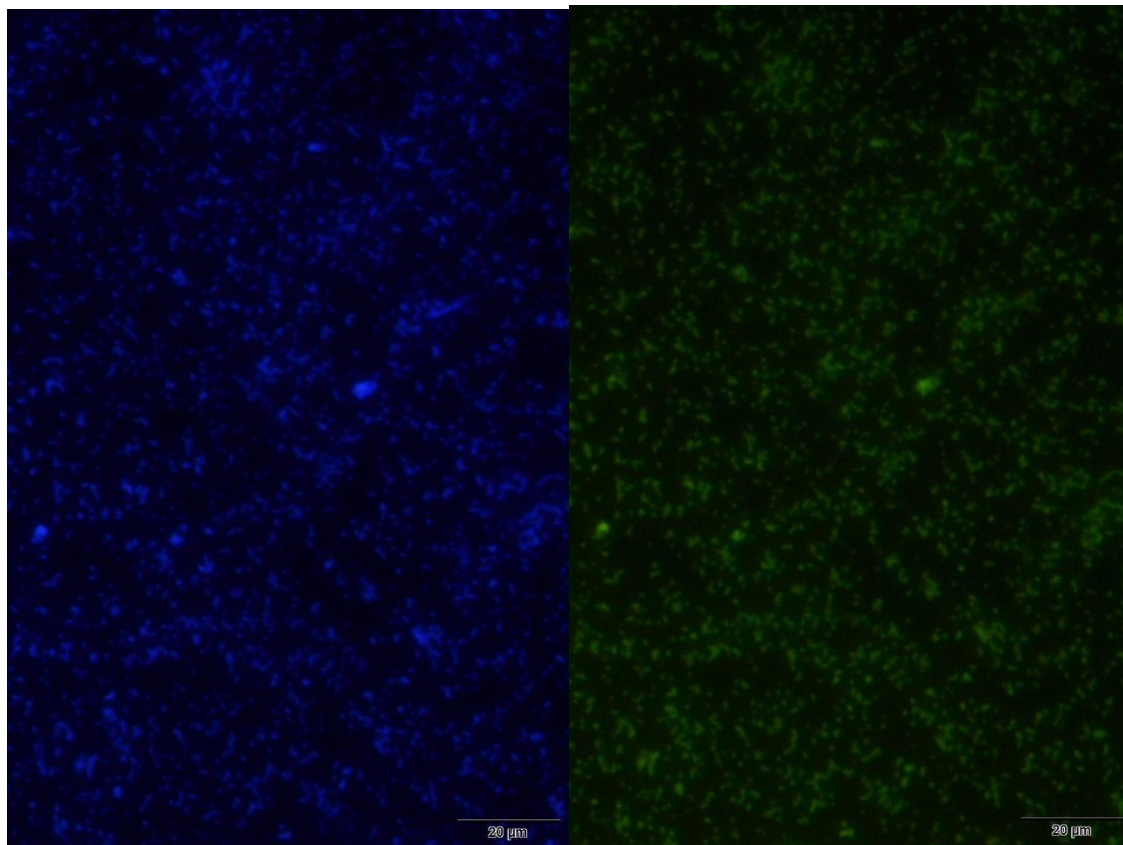


Prevotella micans CCUG 56105

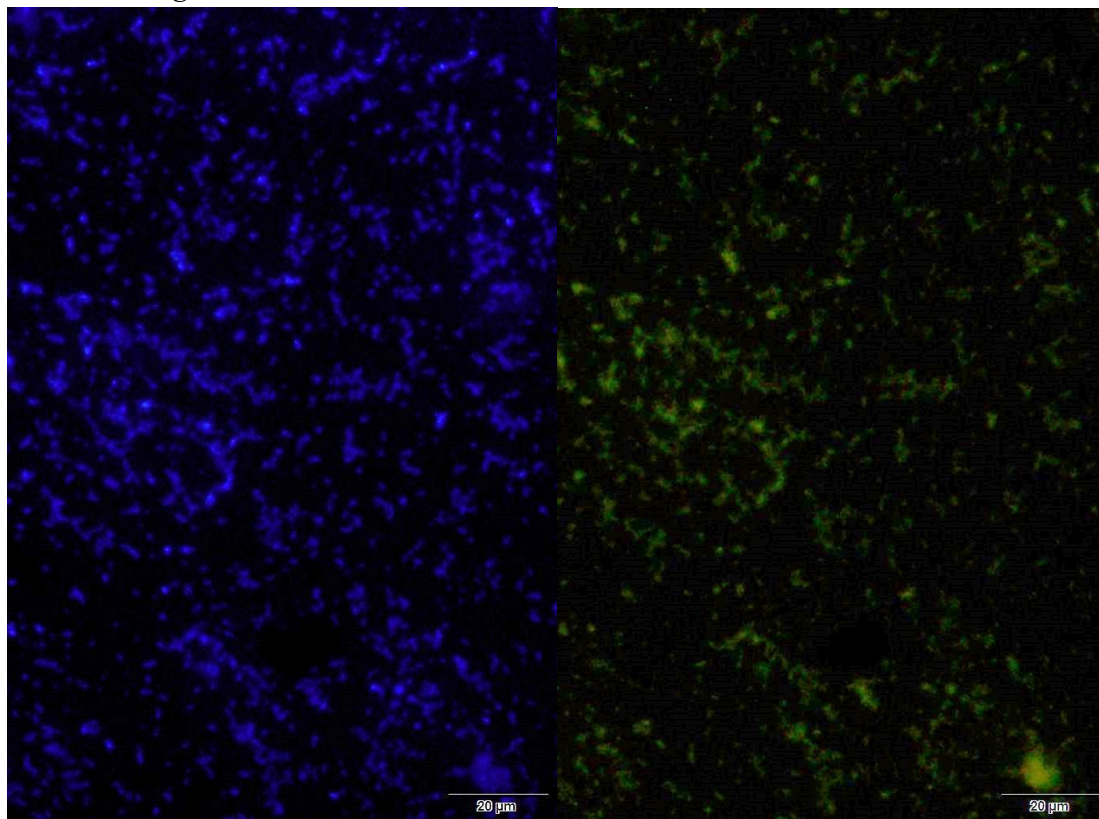


Prevotella multiformis

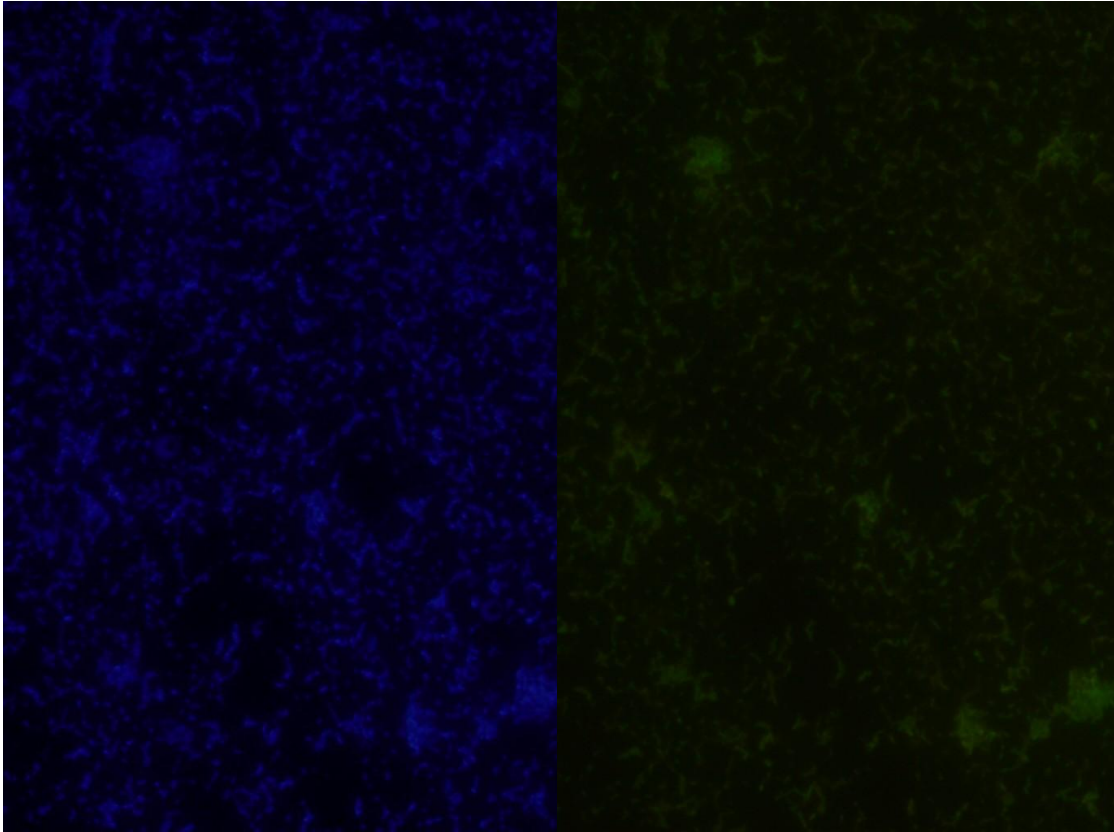
CCUG 51937



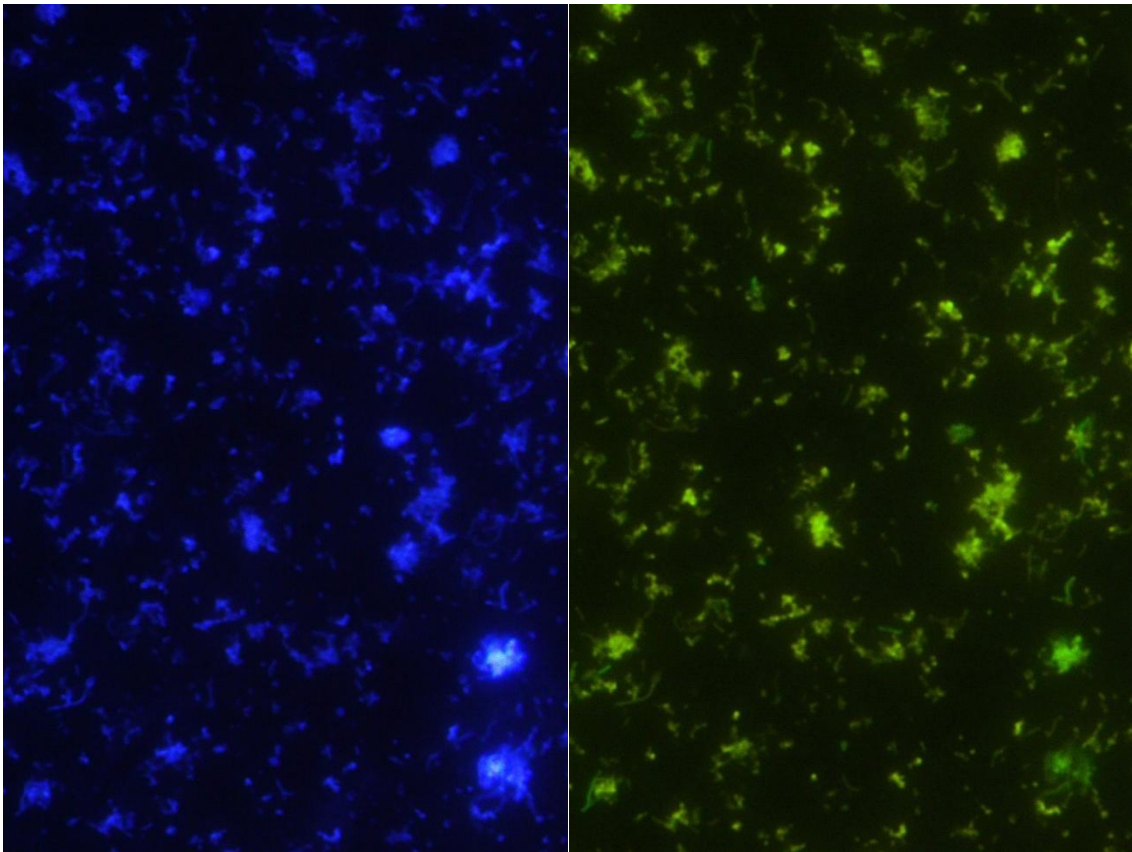
Prevotella nigrescens CCUG 25289



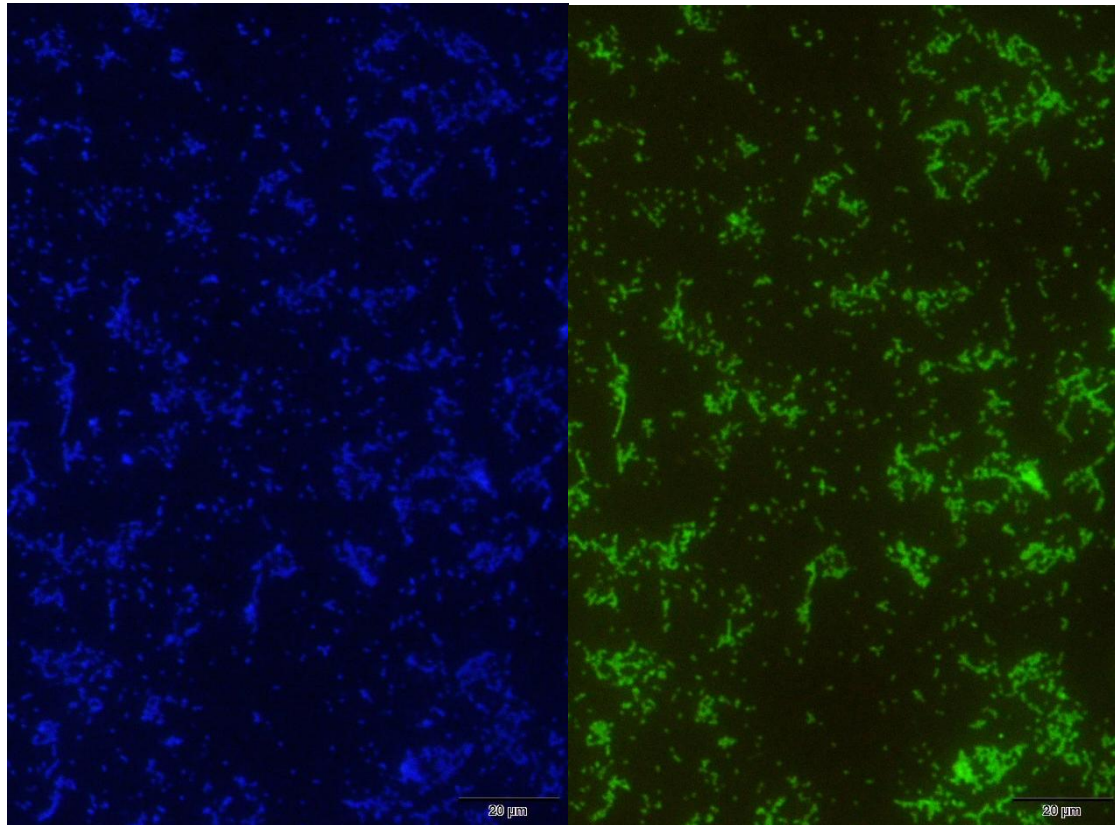
Prevotella pallens CCUG 39484



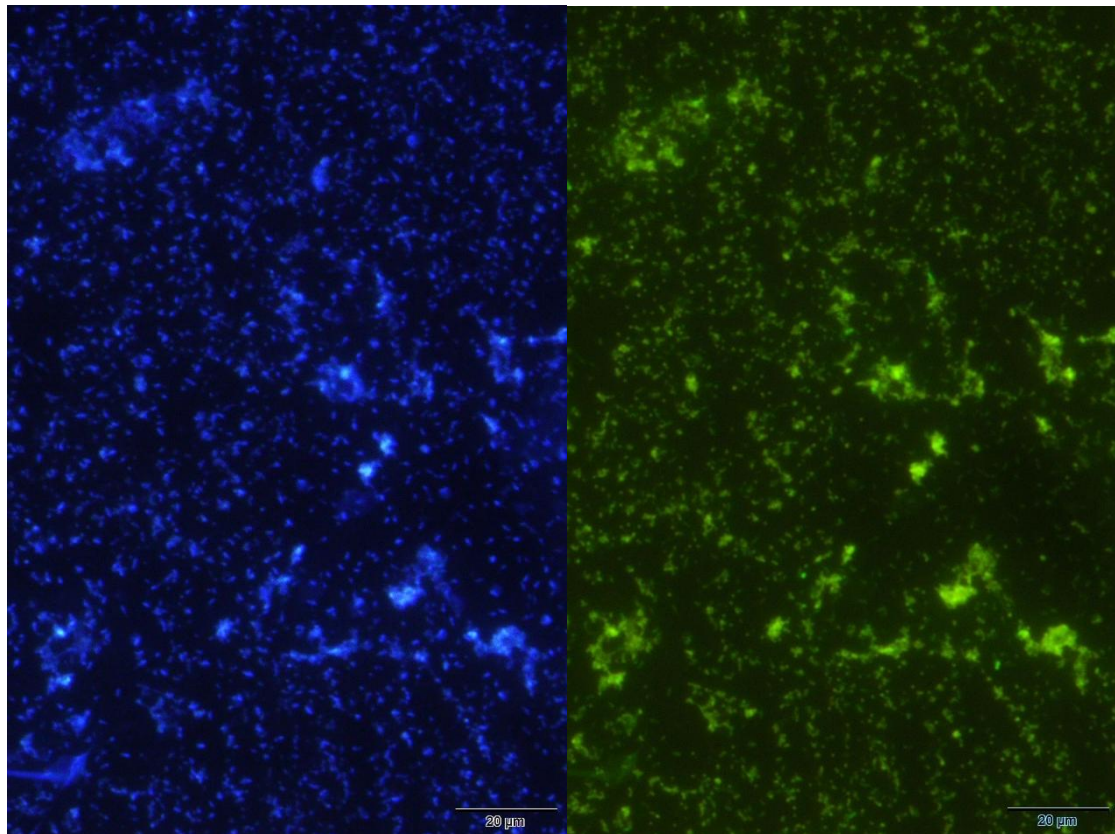
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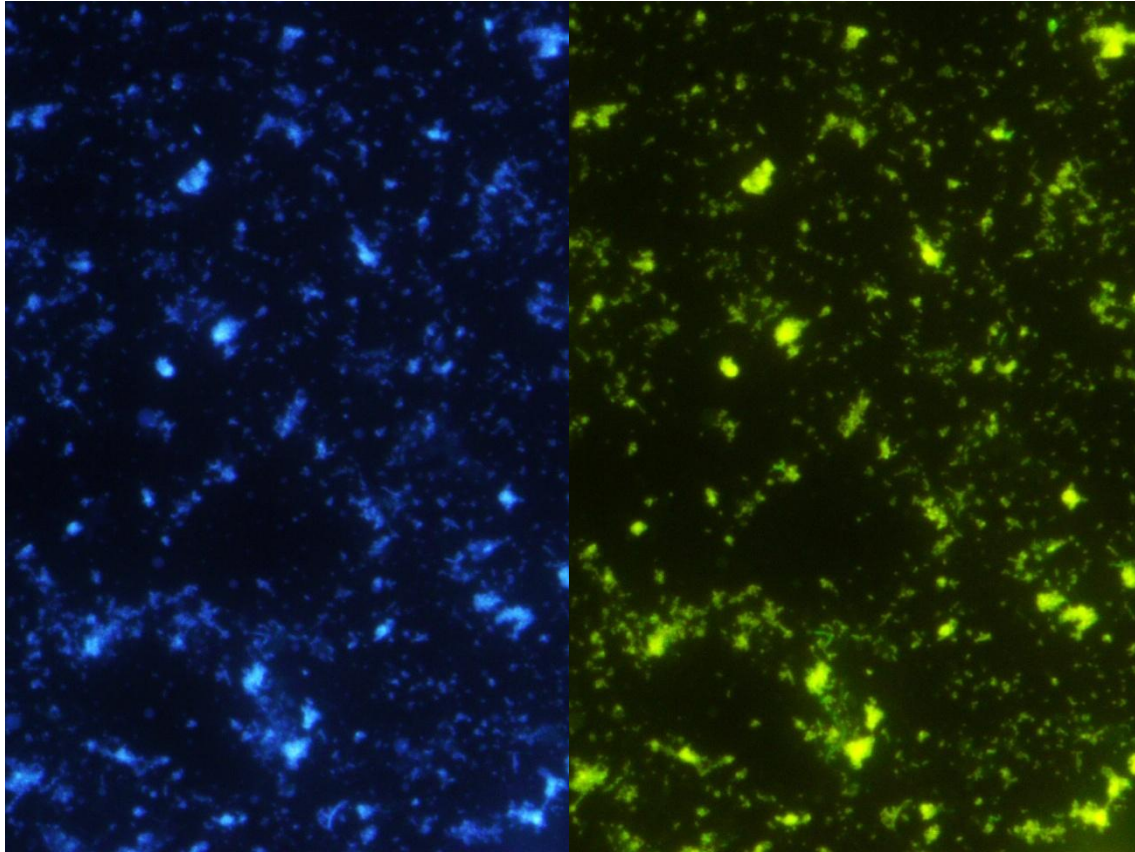
Prevotella timonensis CCUG 59487



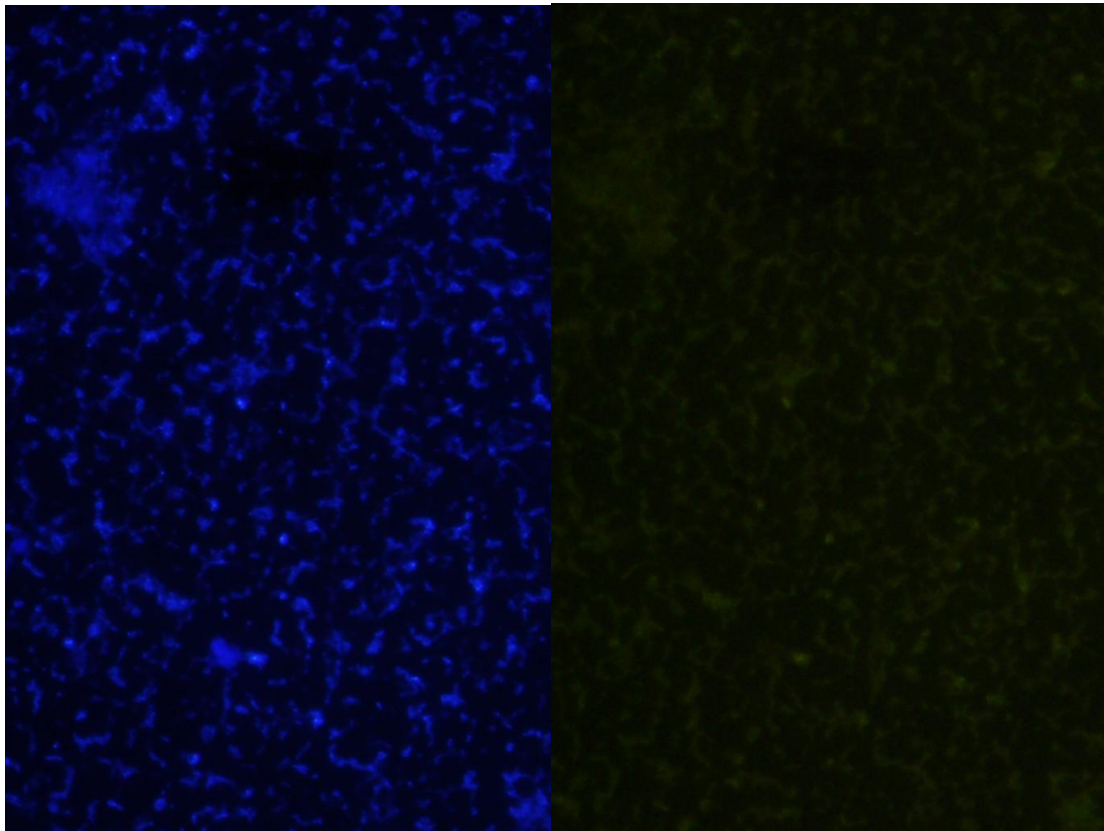
Prevotella veroralis CCUG 15422



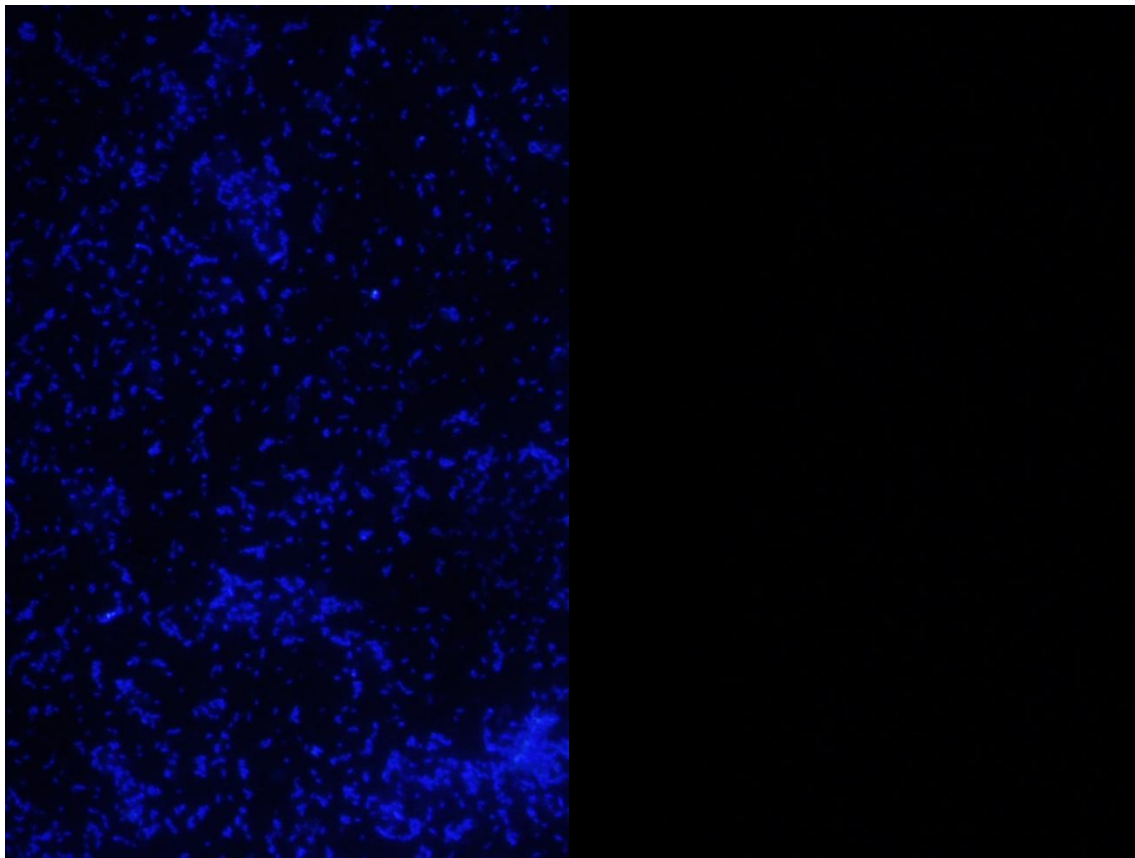
Prevotella vespertine CCUG 72808



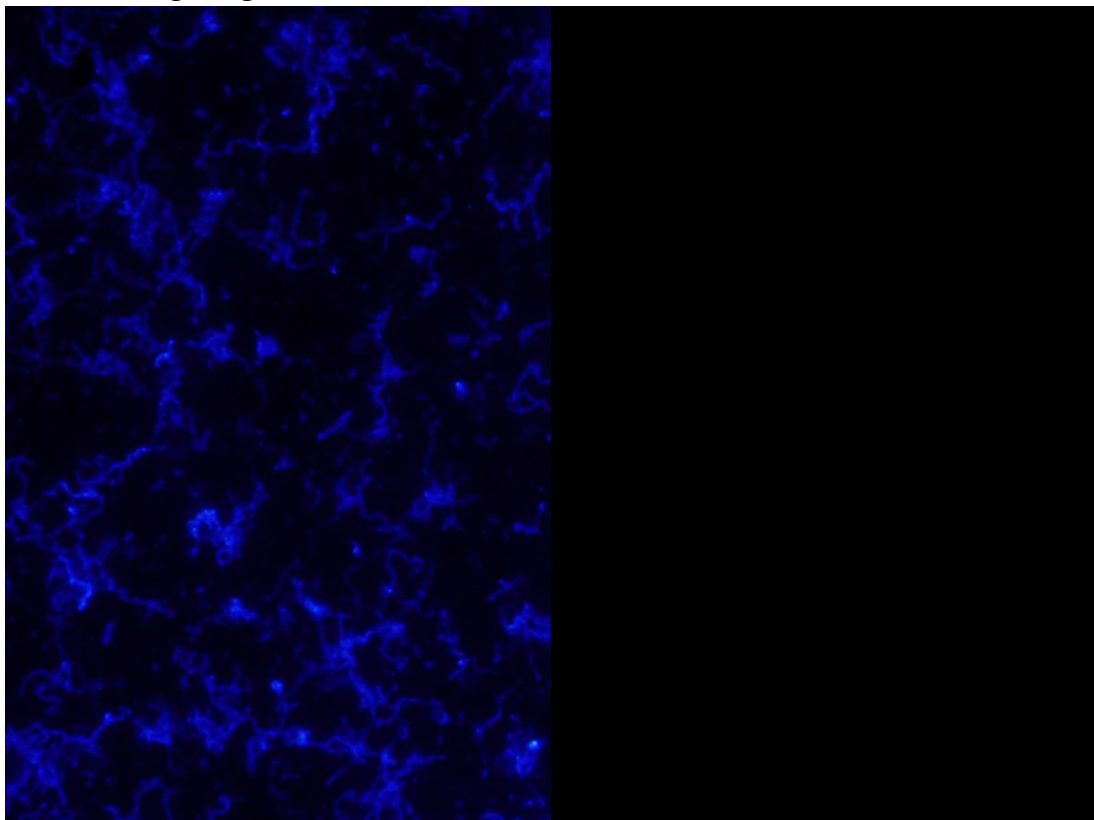
Propionibacterium acnes UM034



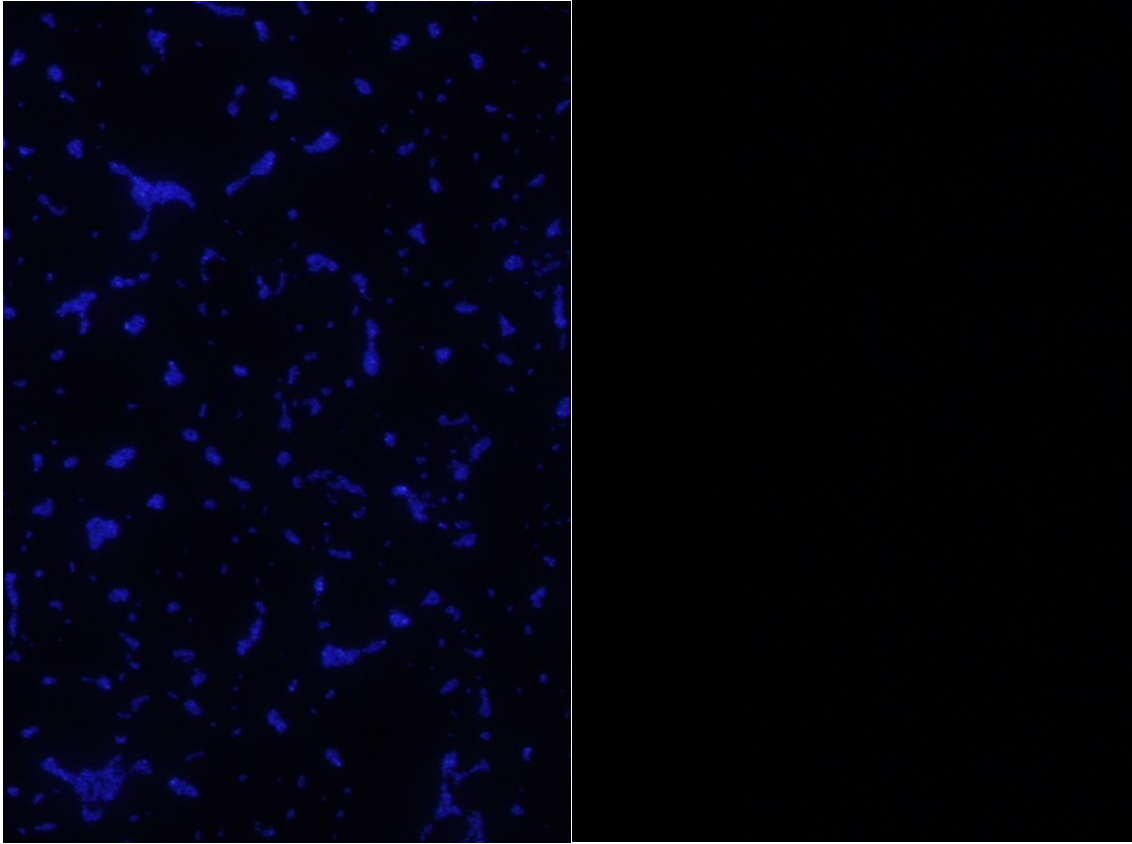
Shigella spp. UM137



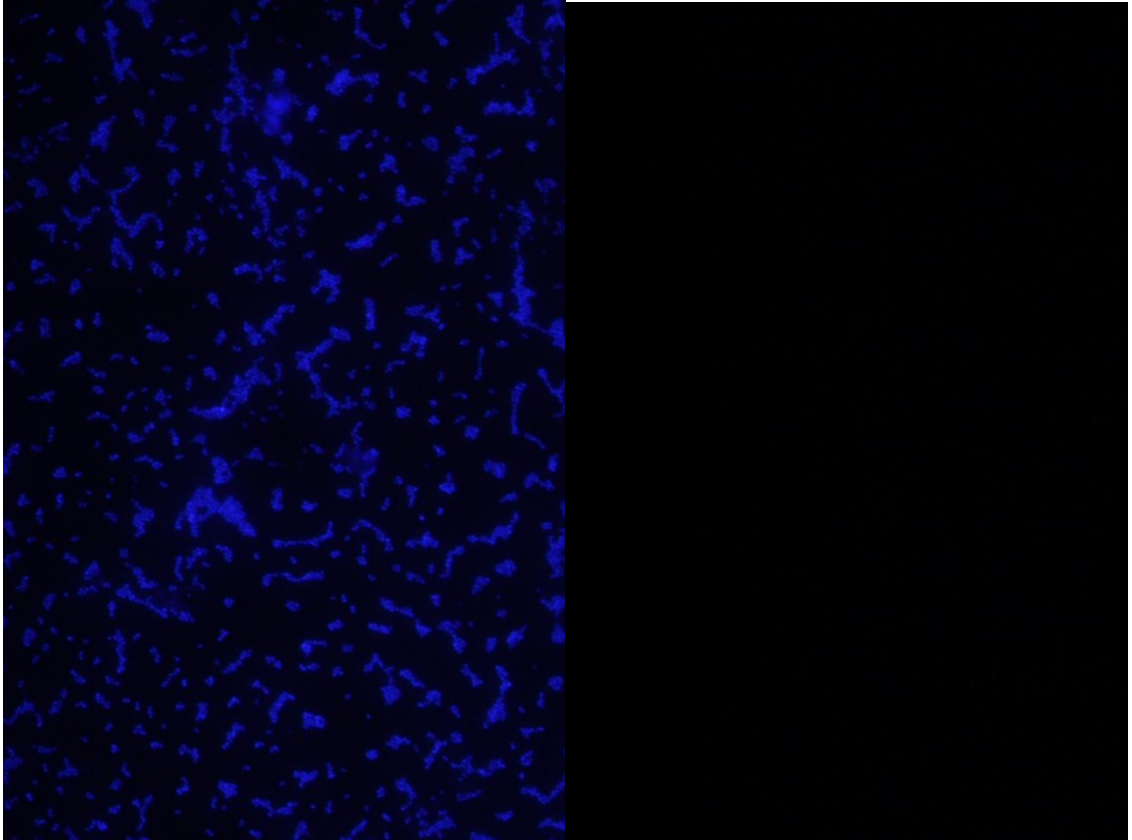
Sneathia sanguinegens CCUG 66076



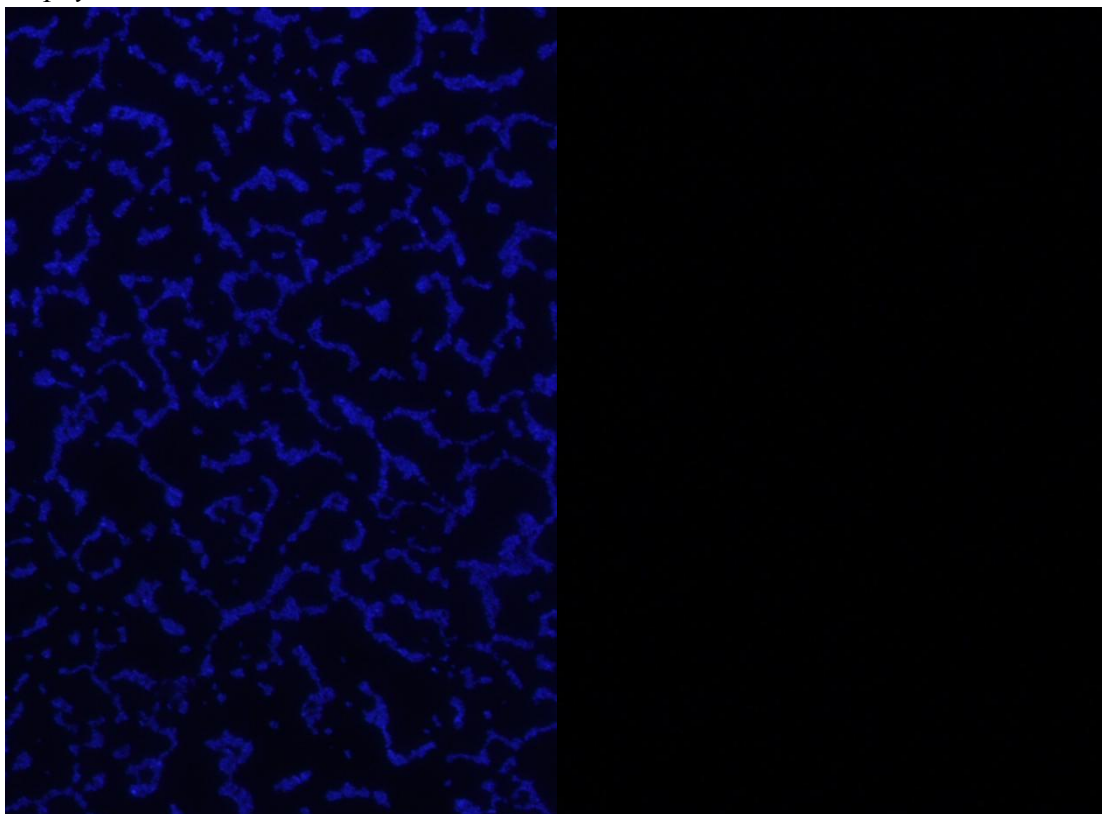
Staphylococcus epidermidis UM066



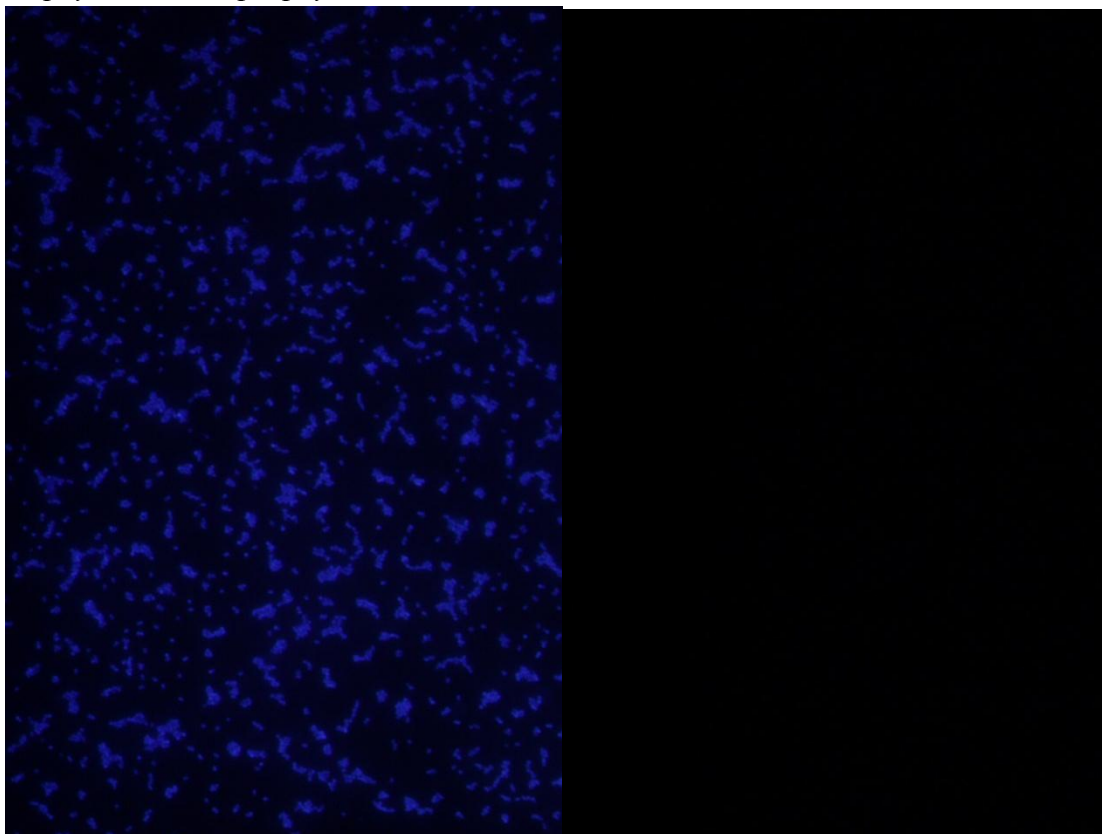
Staphylococcus haemolyticus UM066



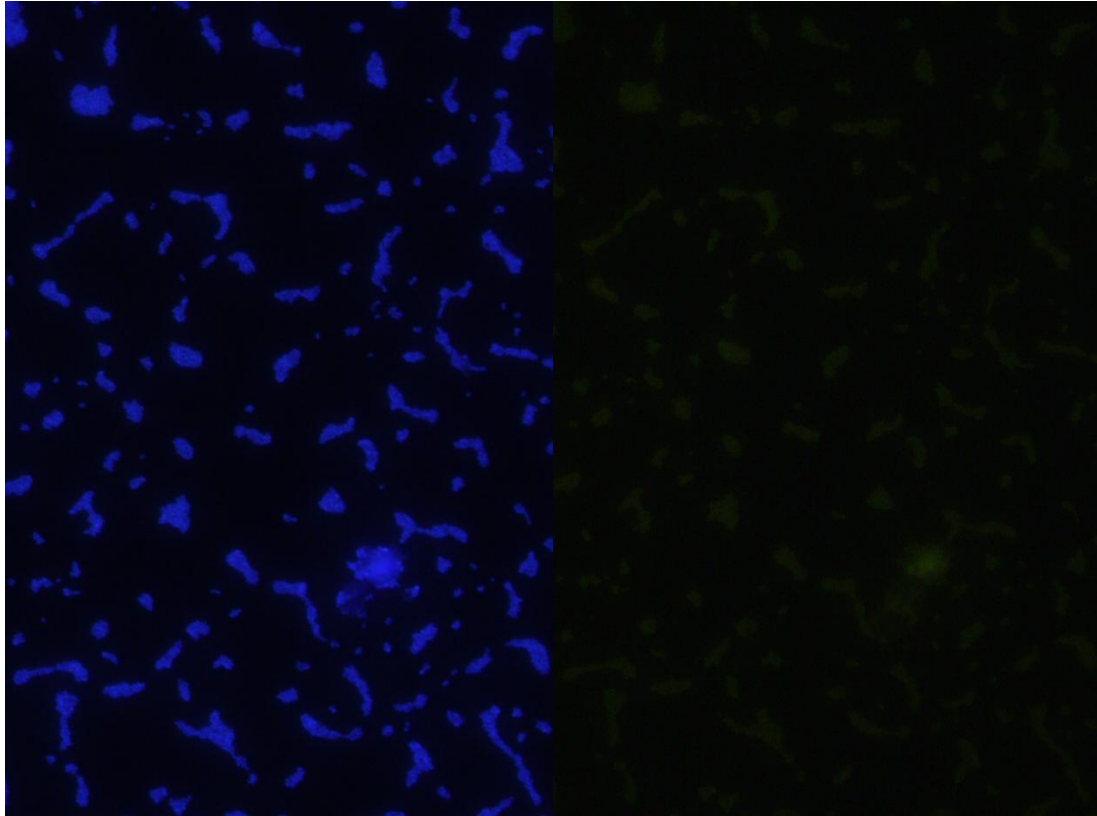
Staphylococcus hominis UM224



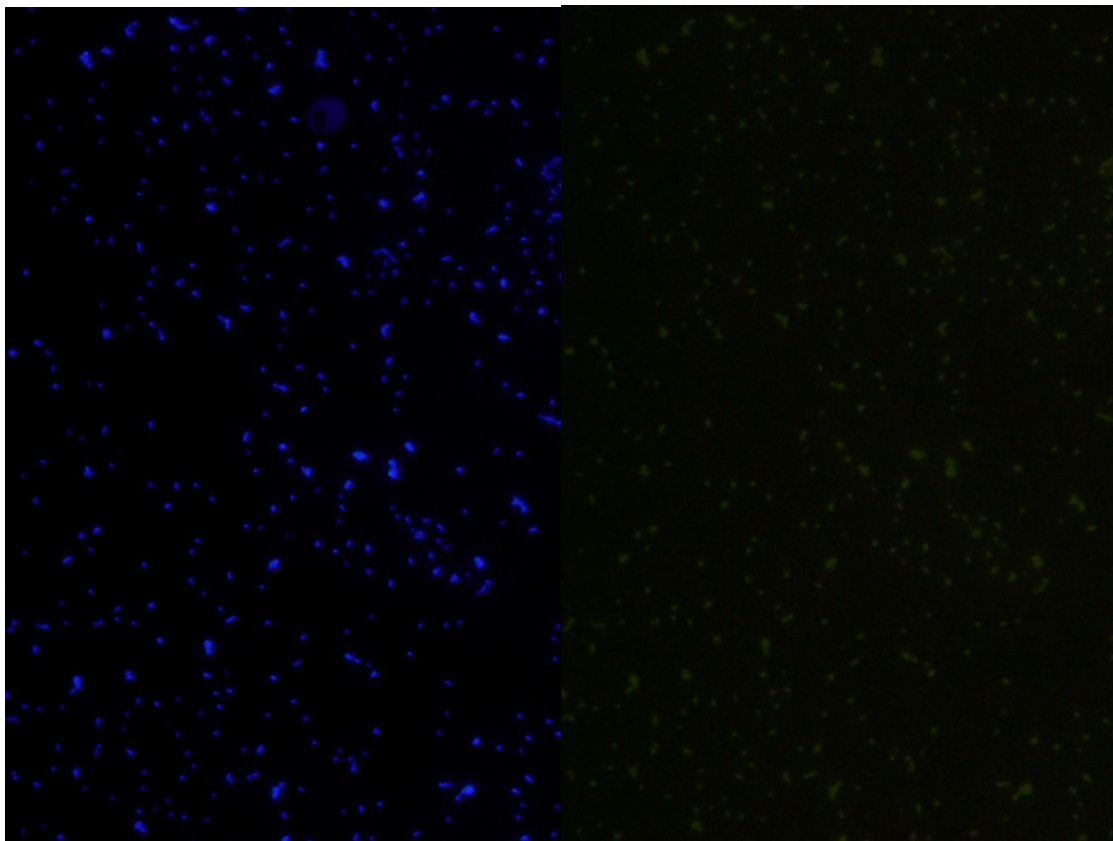
Staphylococcus saprophyticus UM121



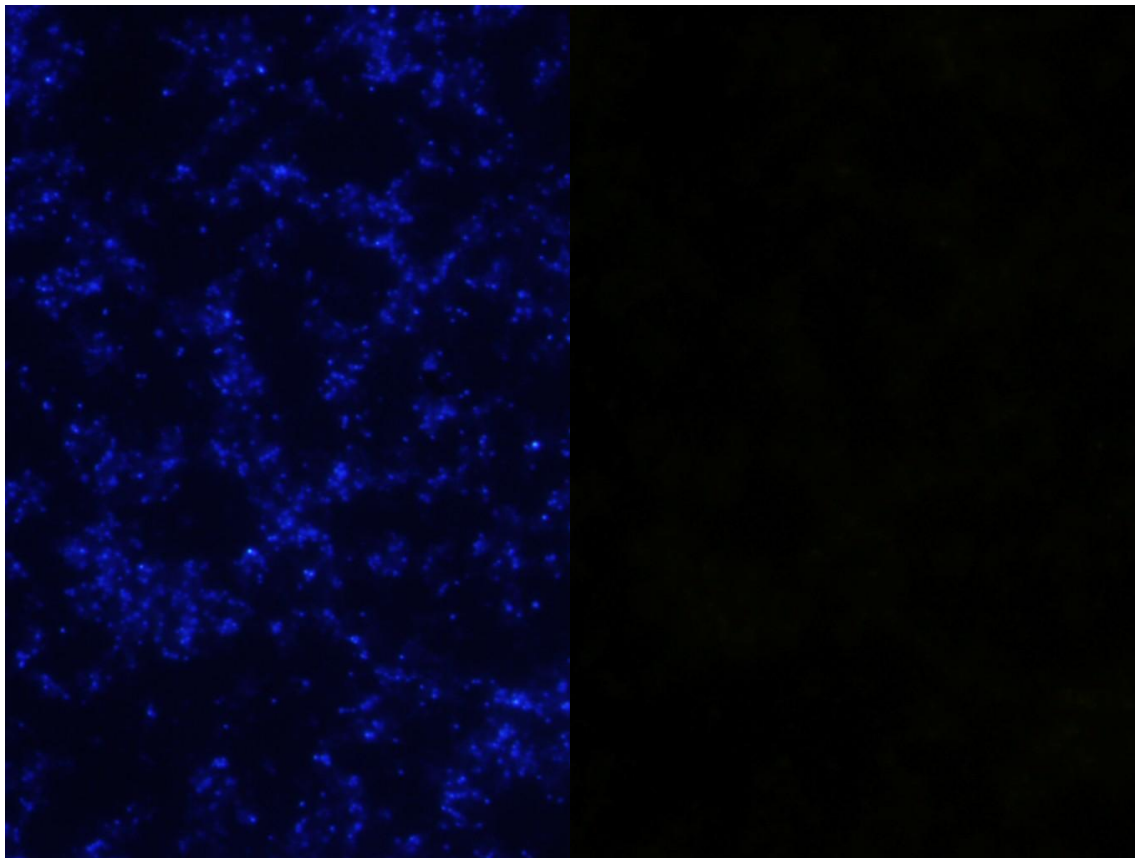
Staphylococcus simulans UM059



Streptococcus agalactiae UM035

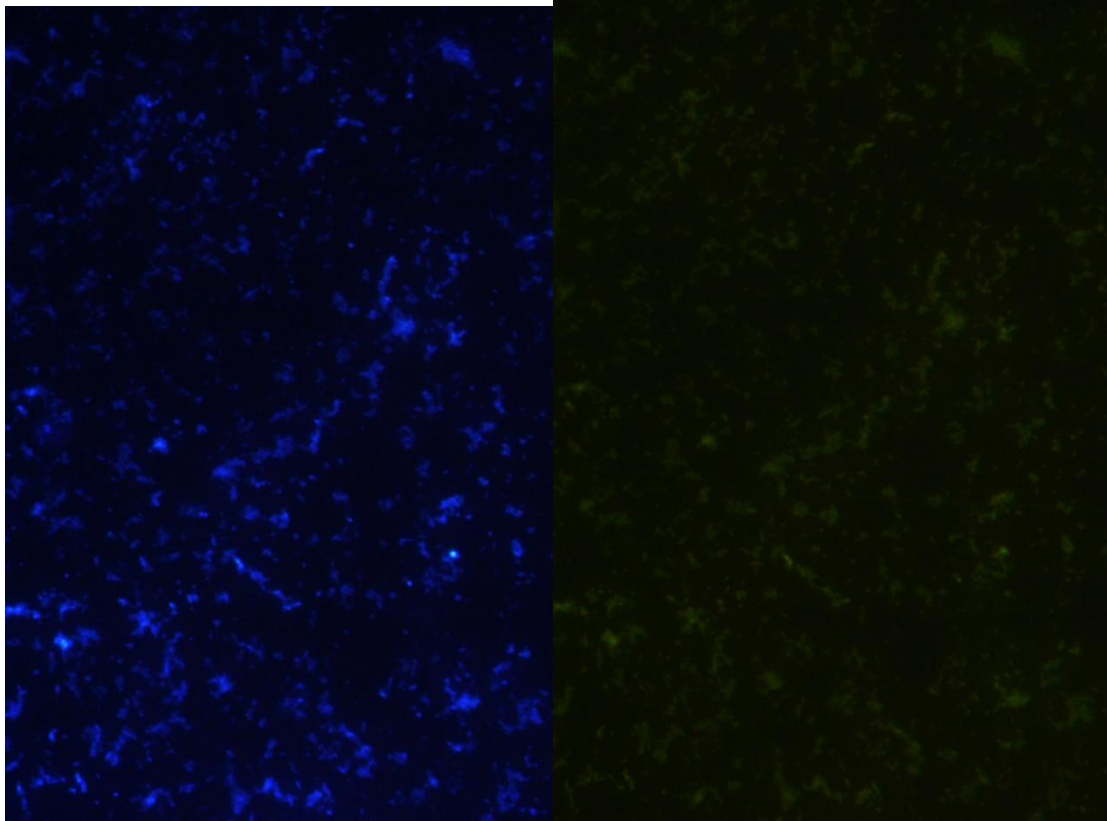


Veillonella parvula CCUG59474

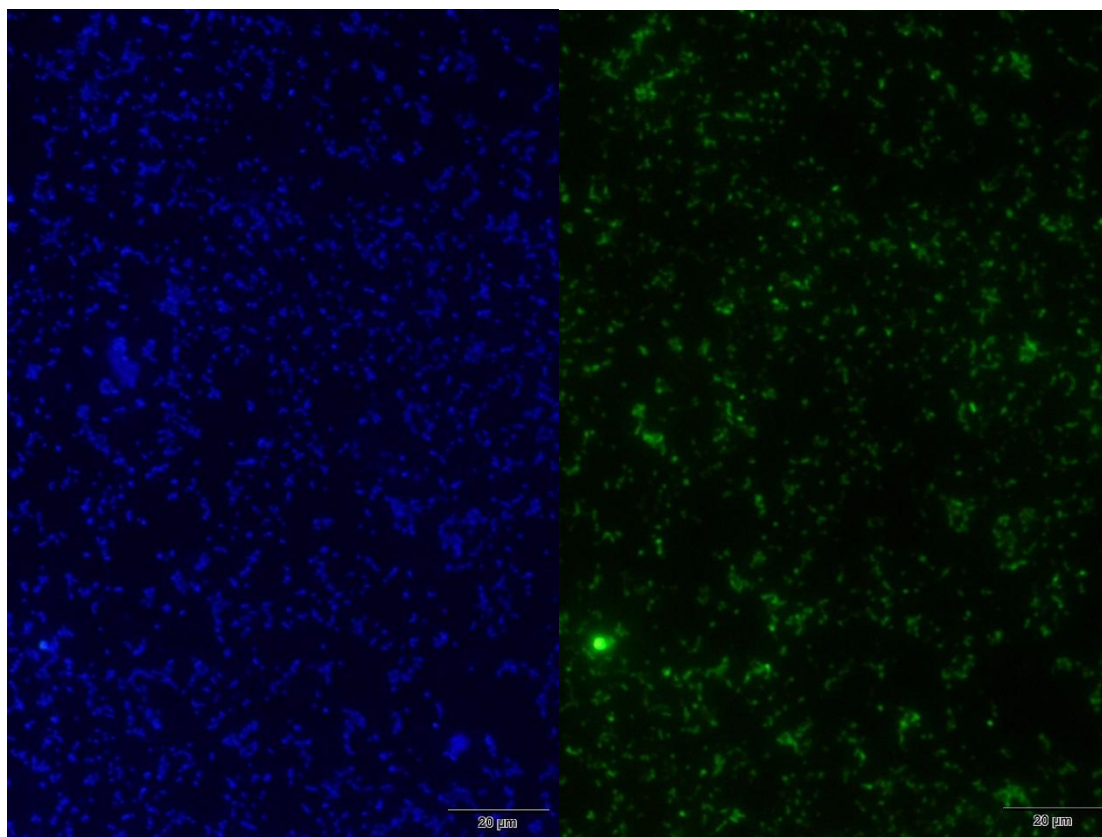


Supplementary Figure 2: The following images present the fluorescence microscopy results of *P. bivia* probe hybridization with all the tested species for sensitivity. The images were obtained using DAPI filter and FITC filter. Magnification of 400x and scale bars represent 20 μm .

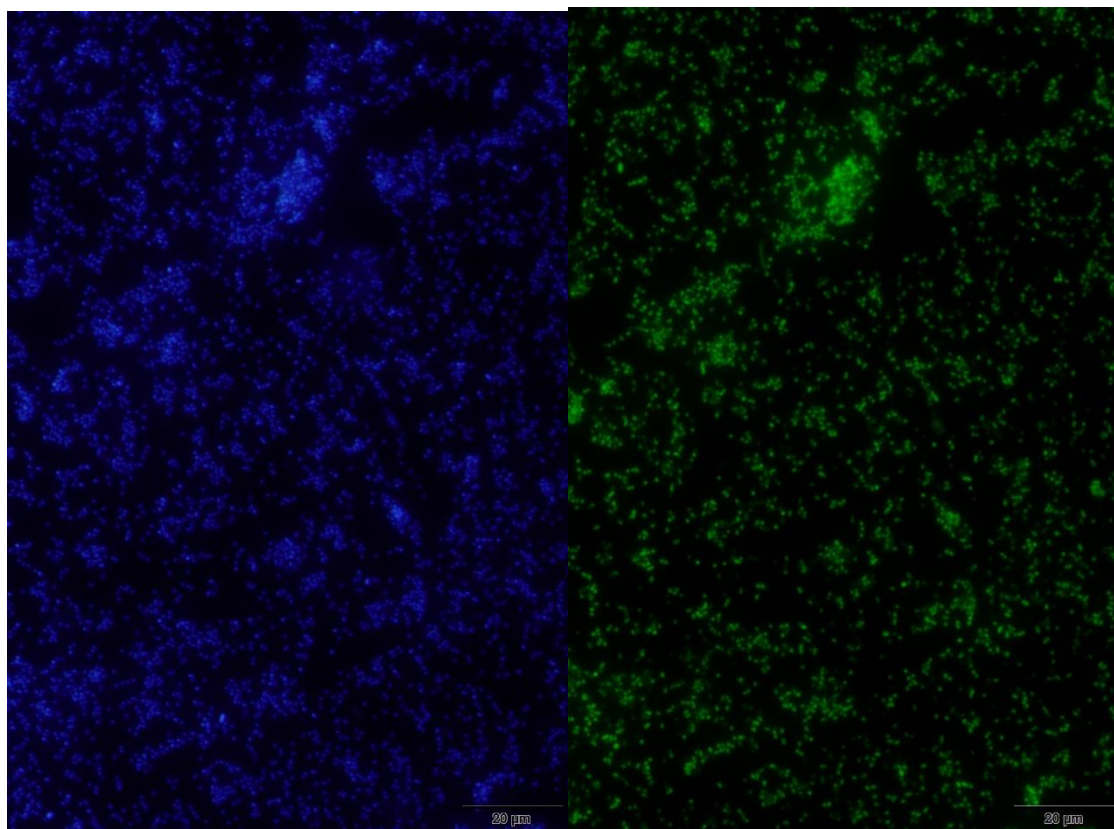
Prevotella amnii CCUG 53648



Prevotella bivia ATCC 29303

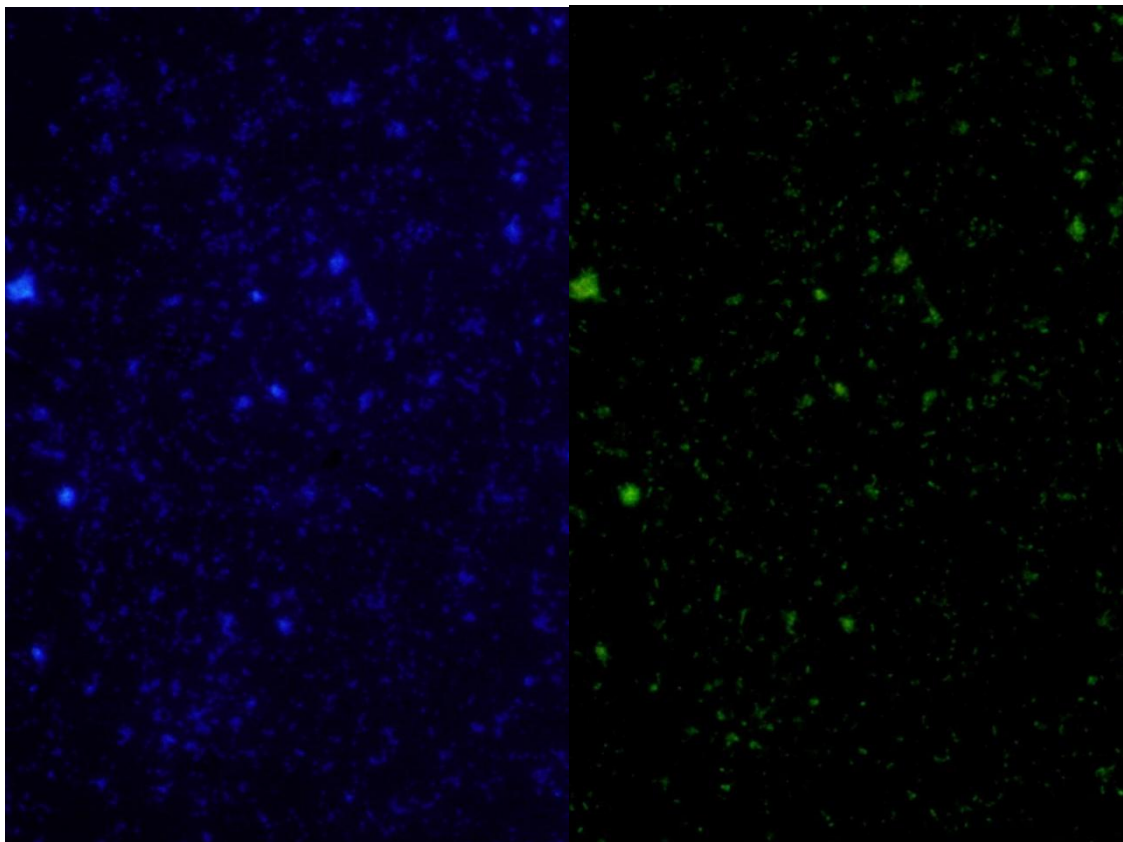


Prevotella bivia CCUG 33360



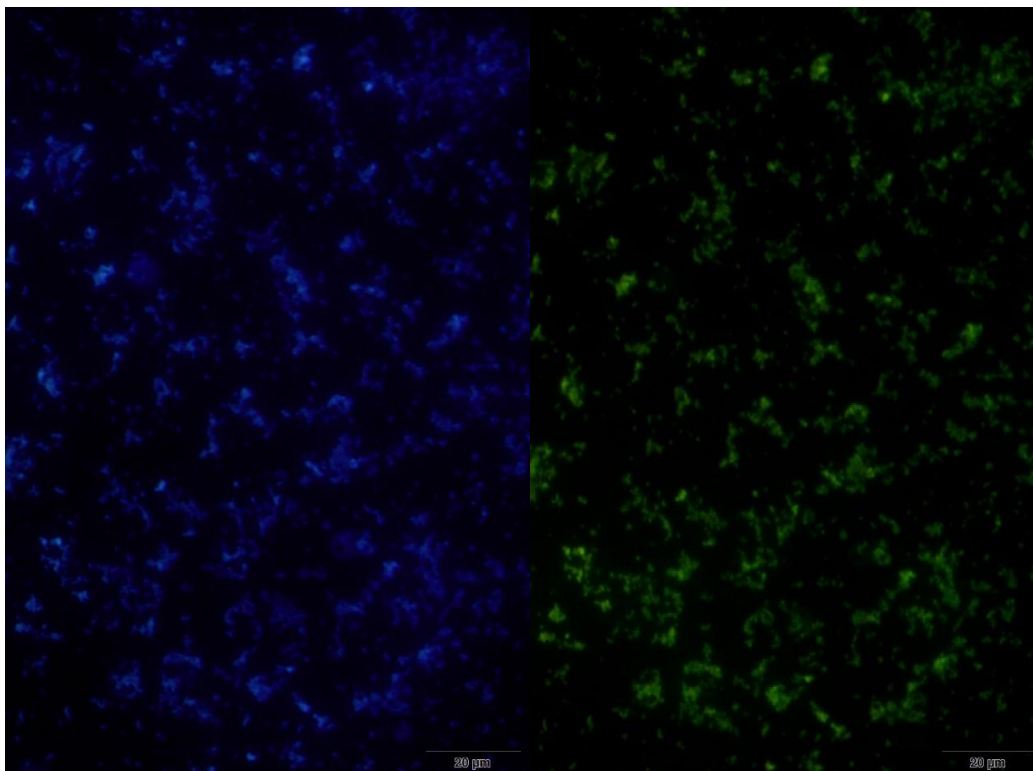
Prevotella bivia

CCUG 34046

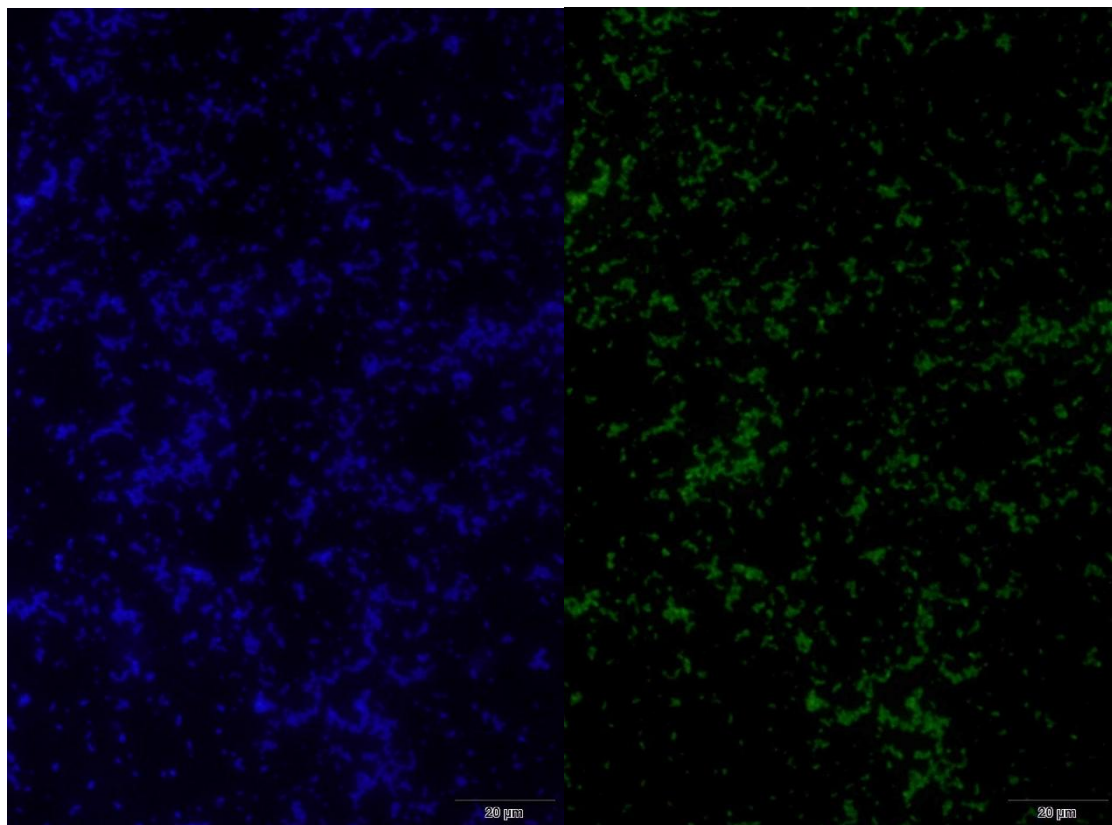


Prevotella bivia

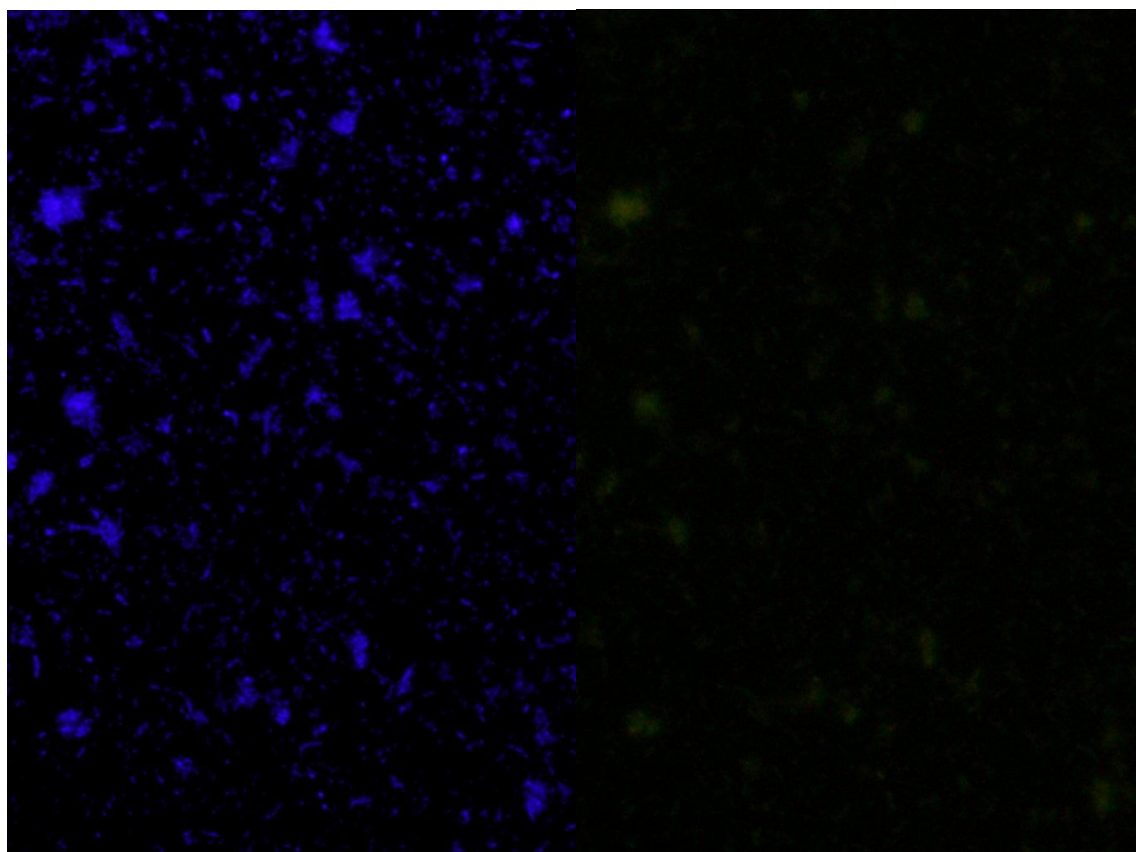
CCUG 44195



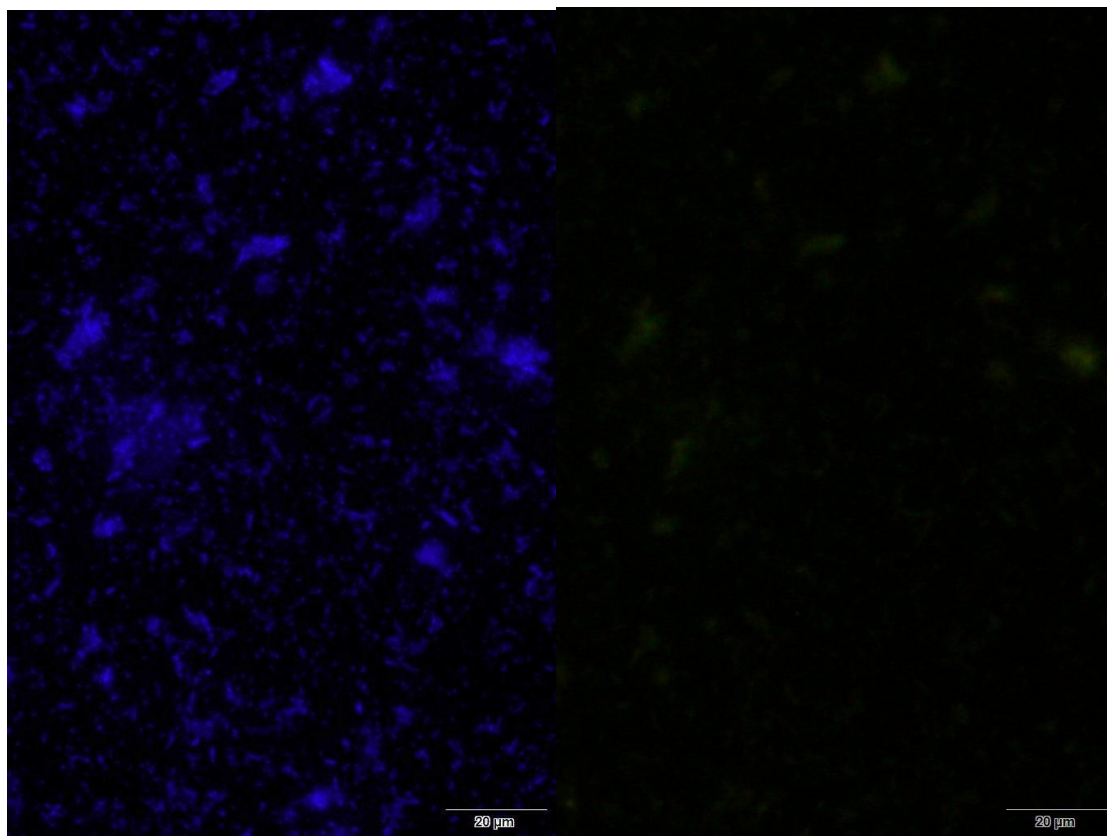
Prevotella bivia CCUG 59496



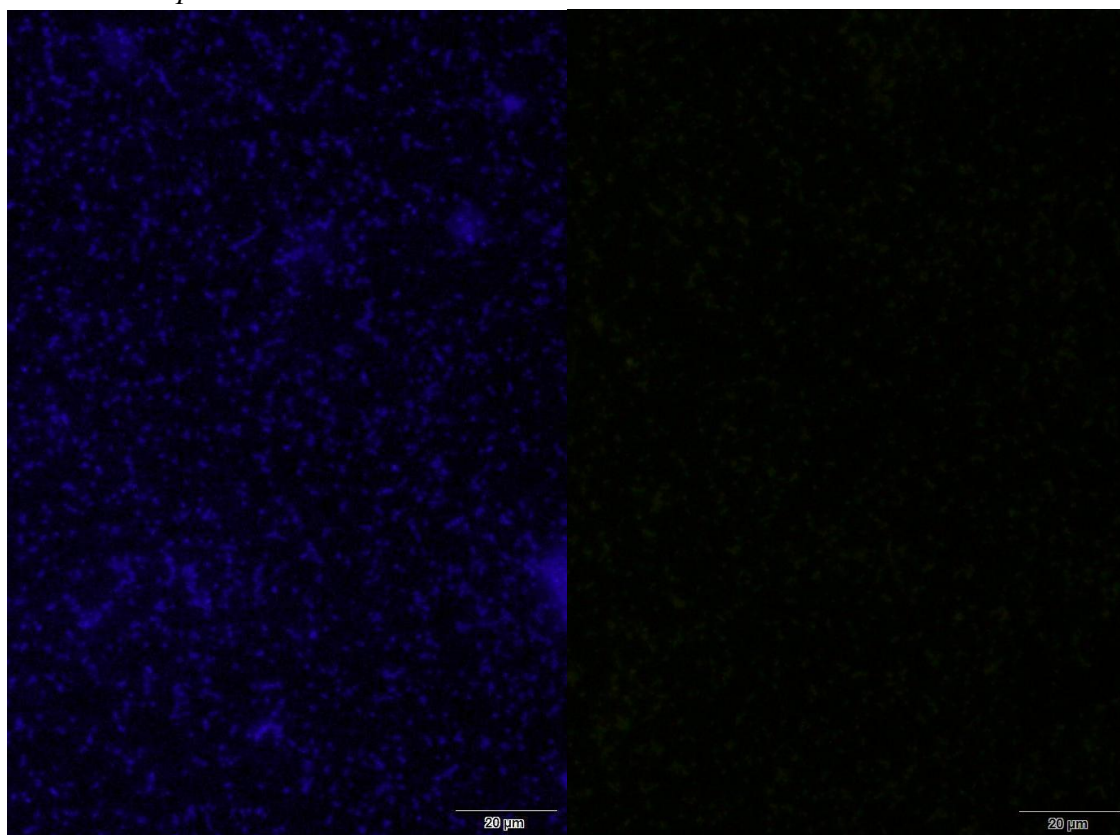
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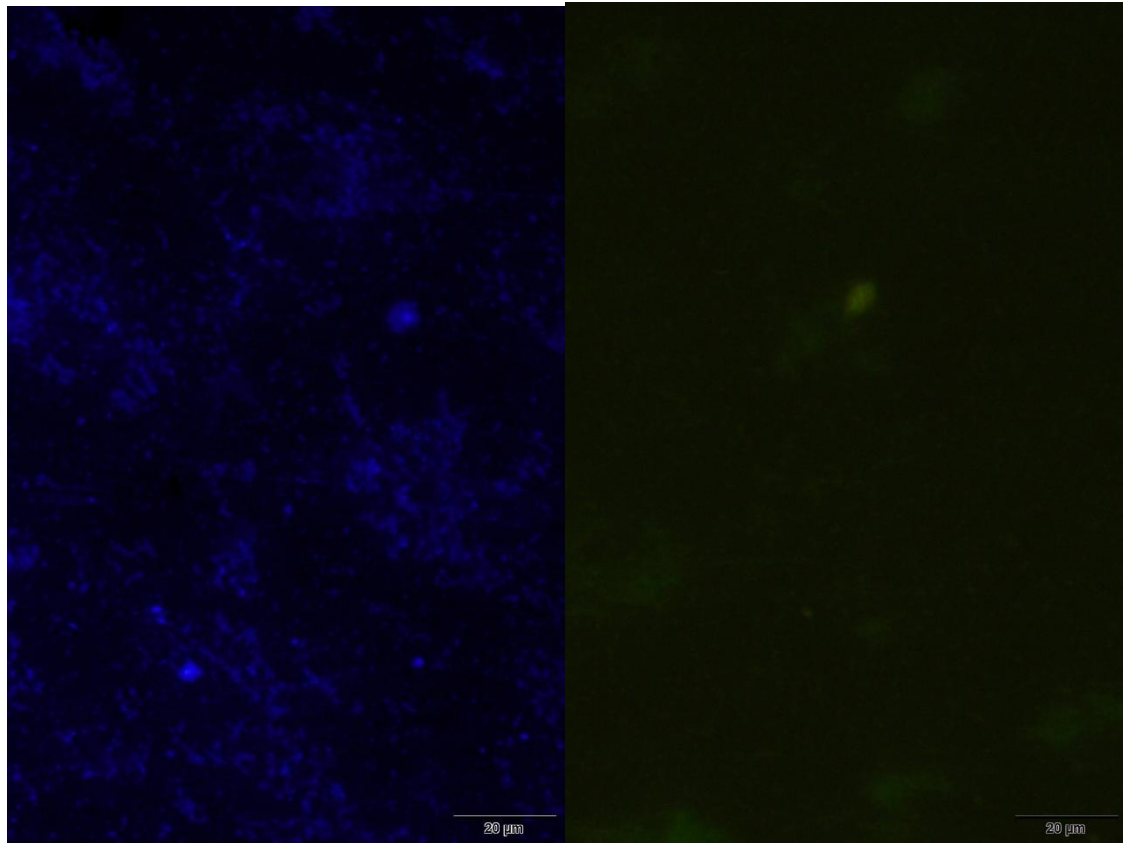
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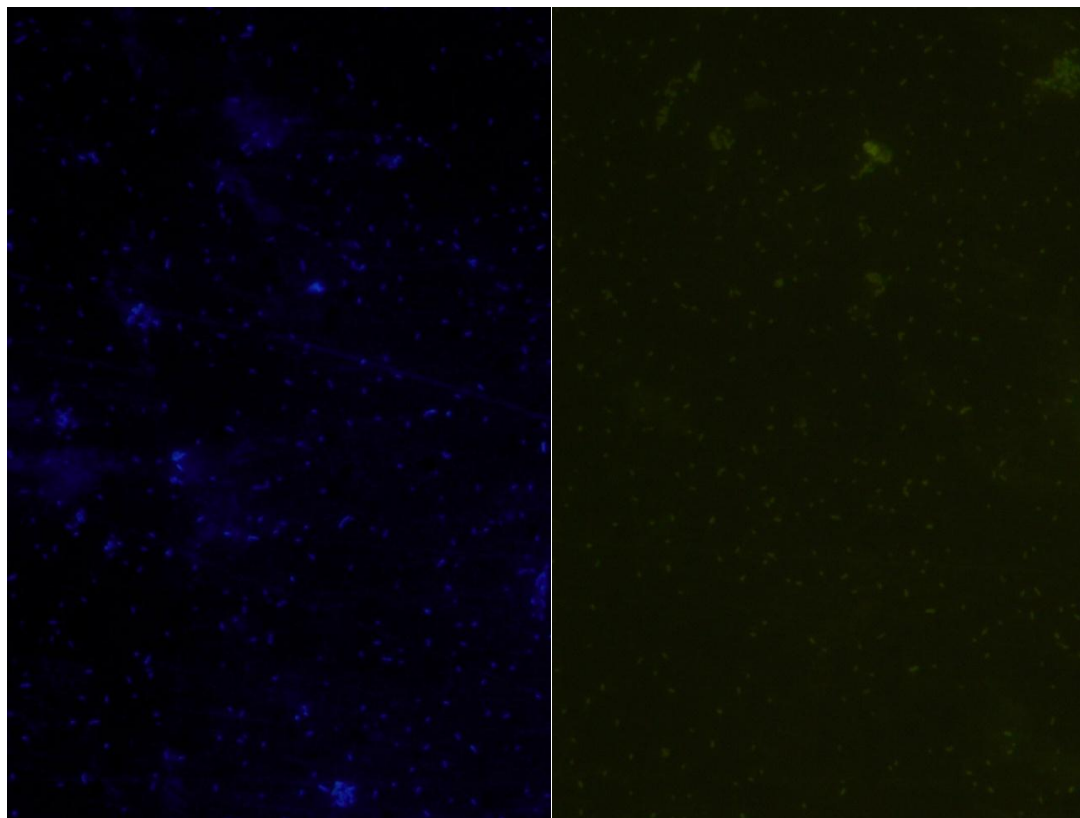
Prevotella copri CCUG 58058T



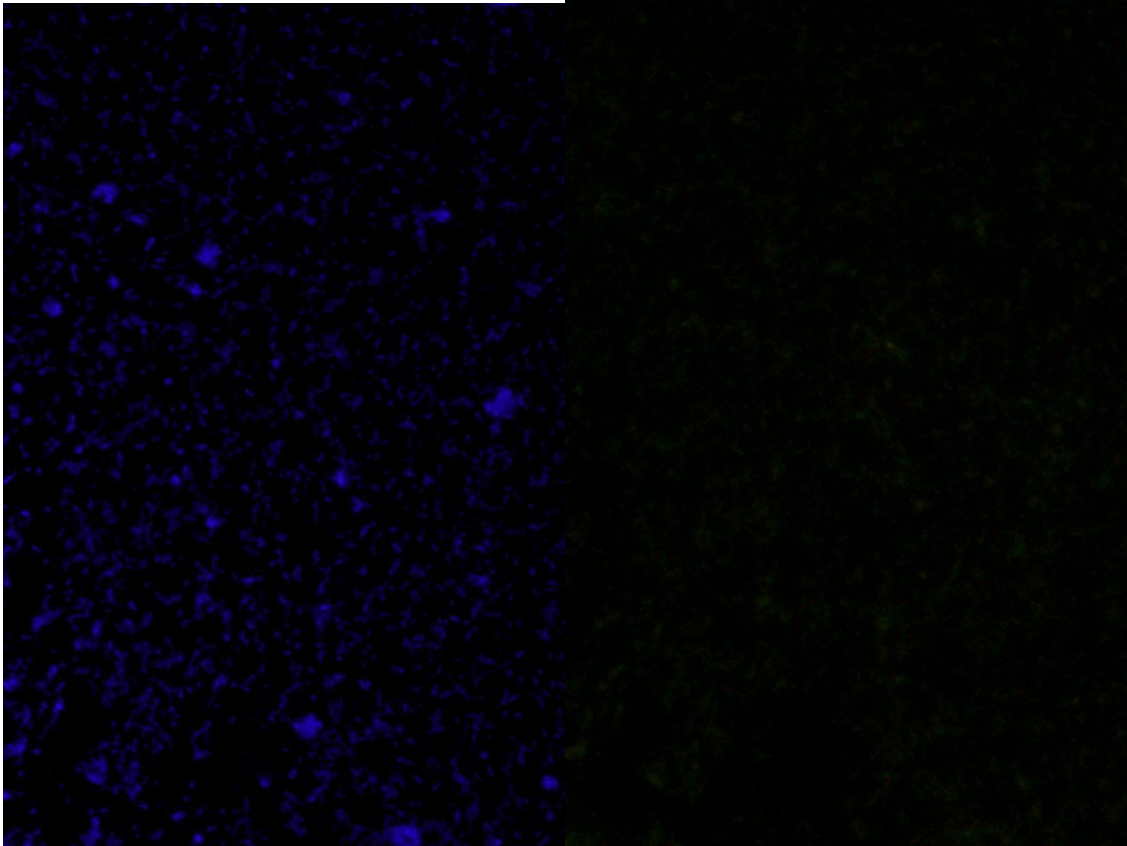
Prevotella corporis CCUG15404



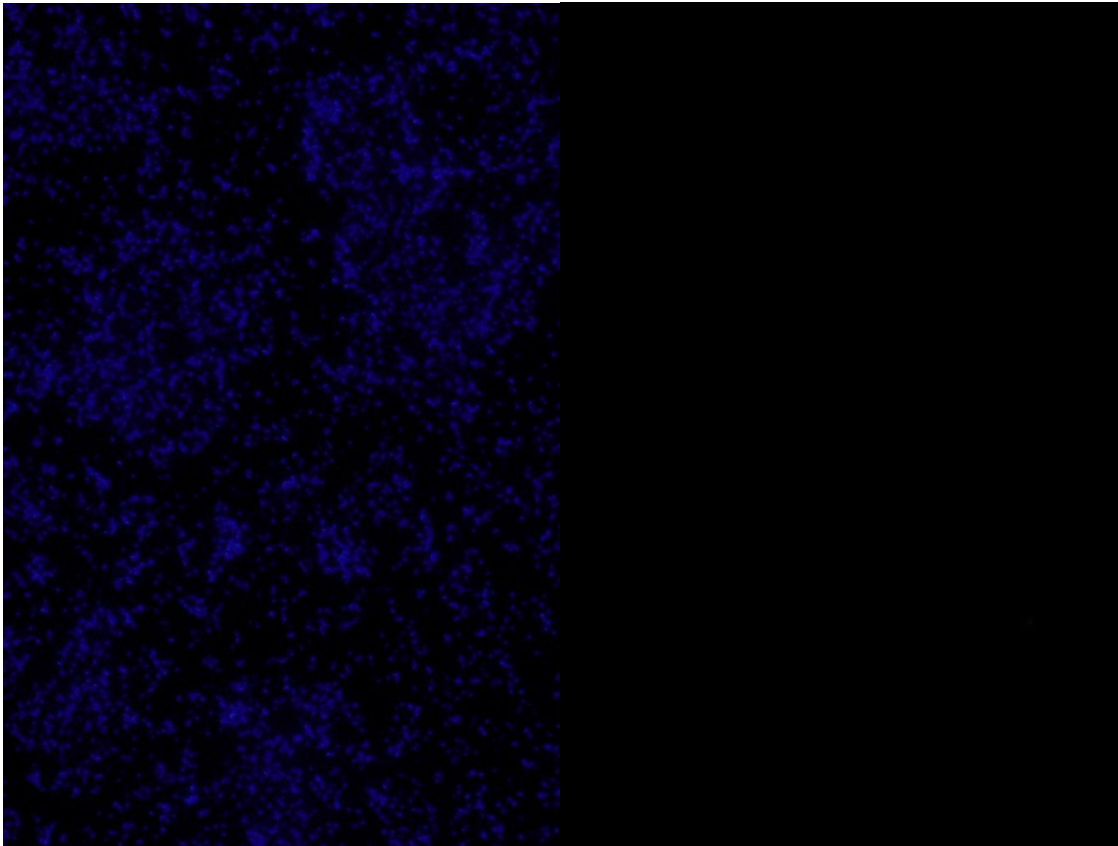
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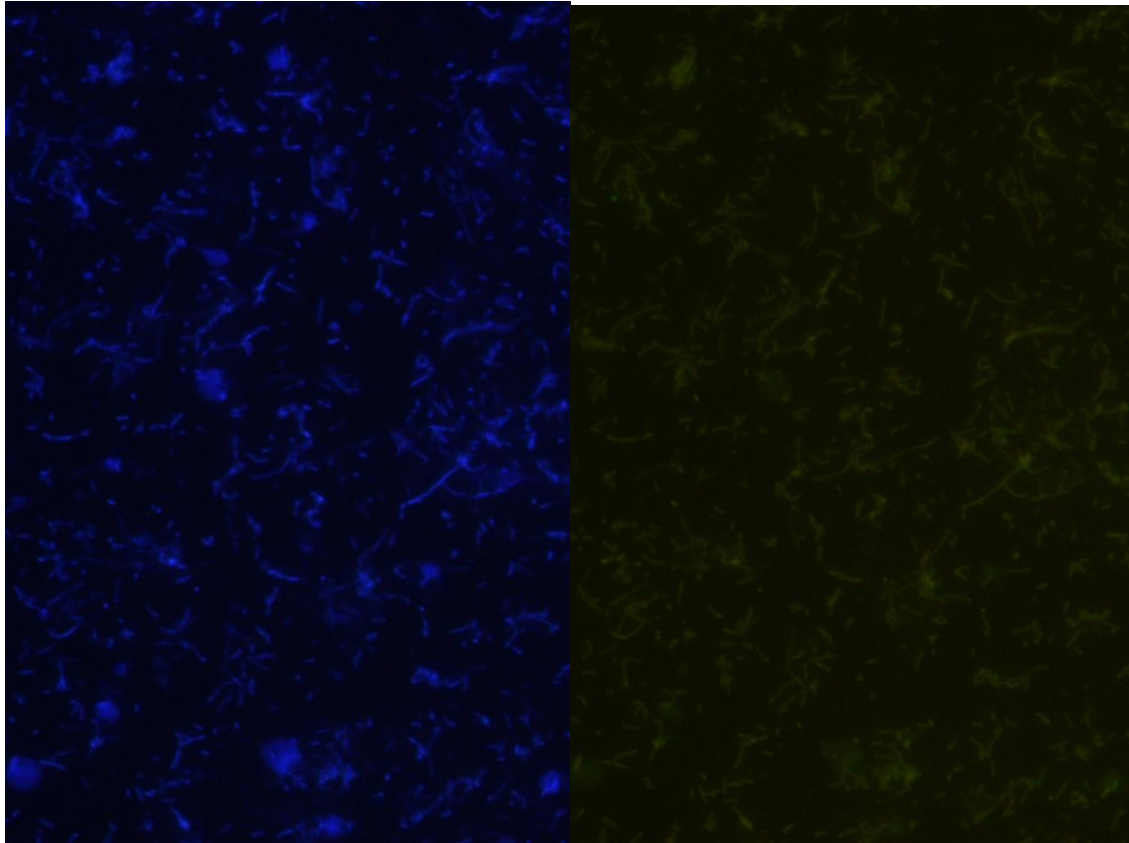
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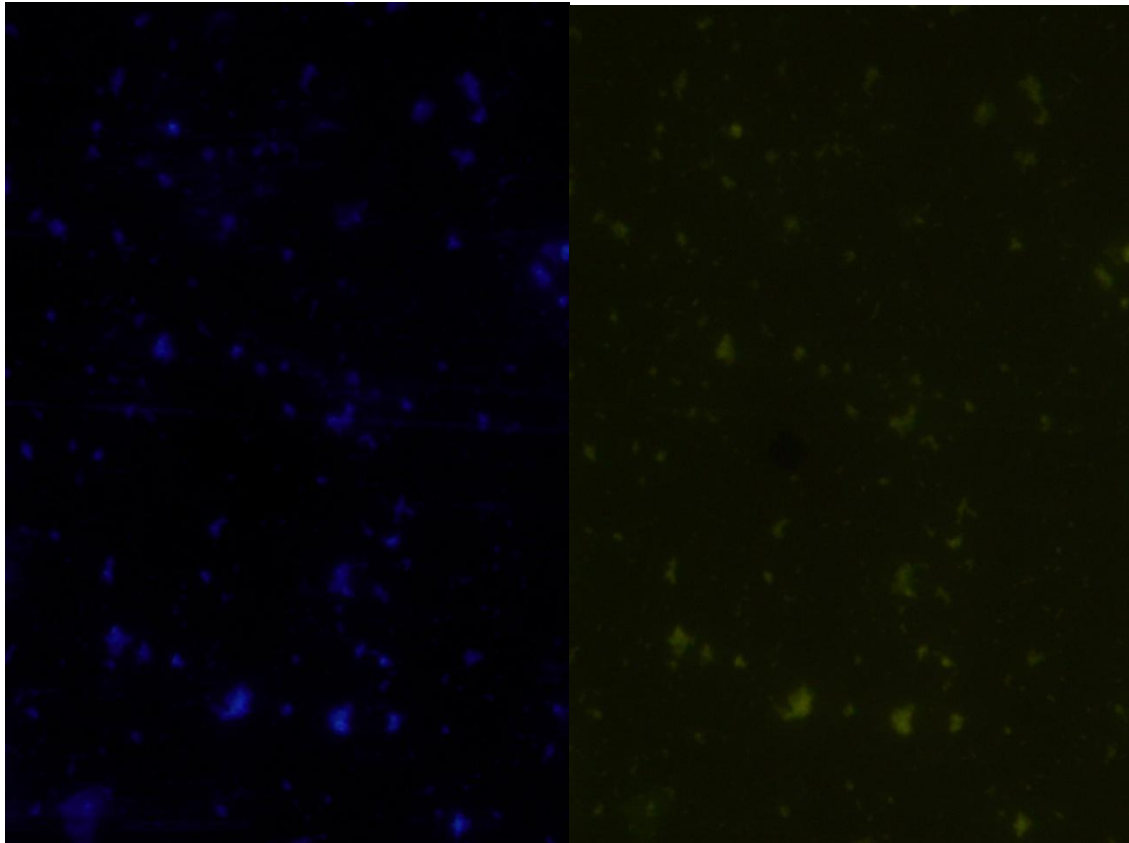
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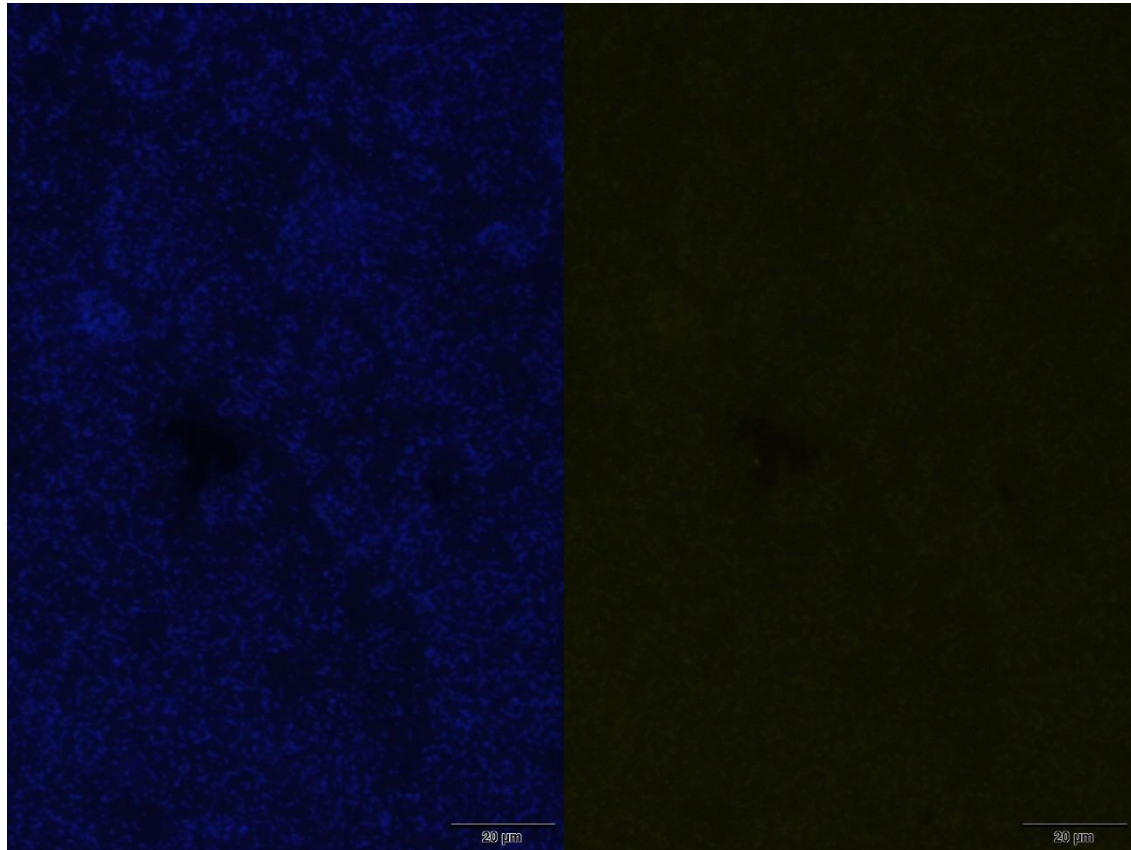
Prevotella fusca CCUG 57946



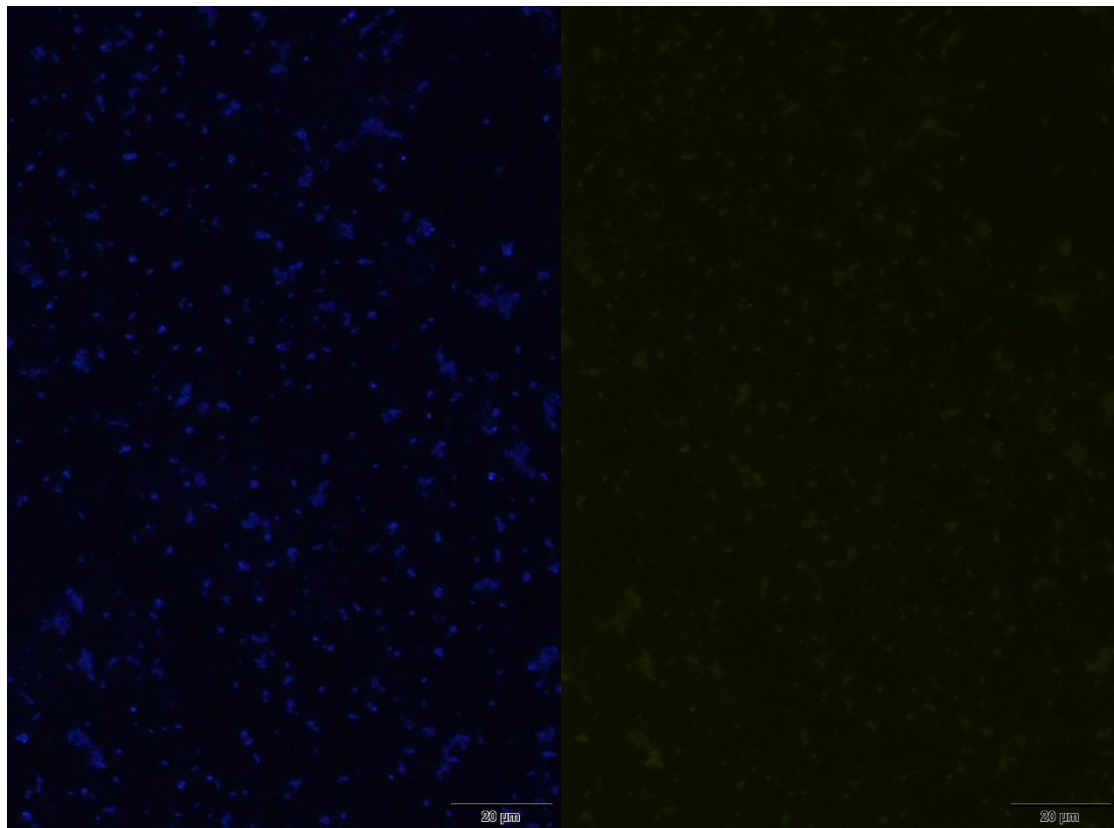
Prevotella histicola CCUG 55407



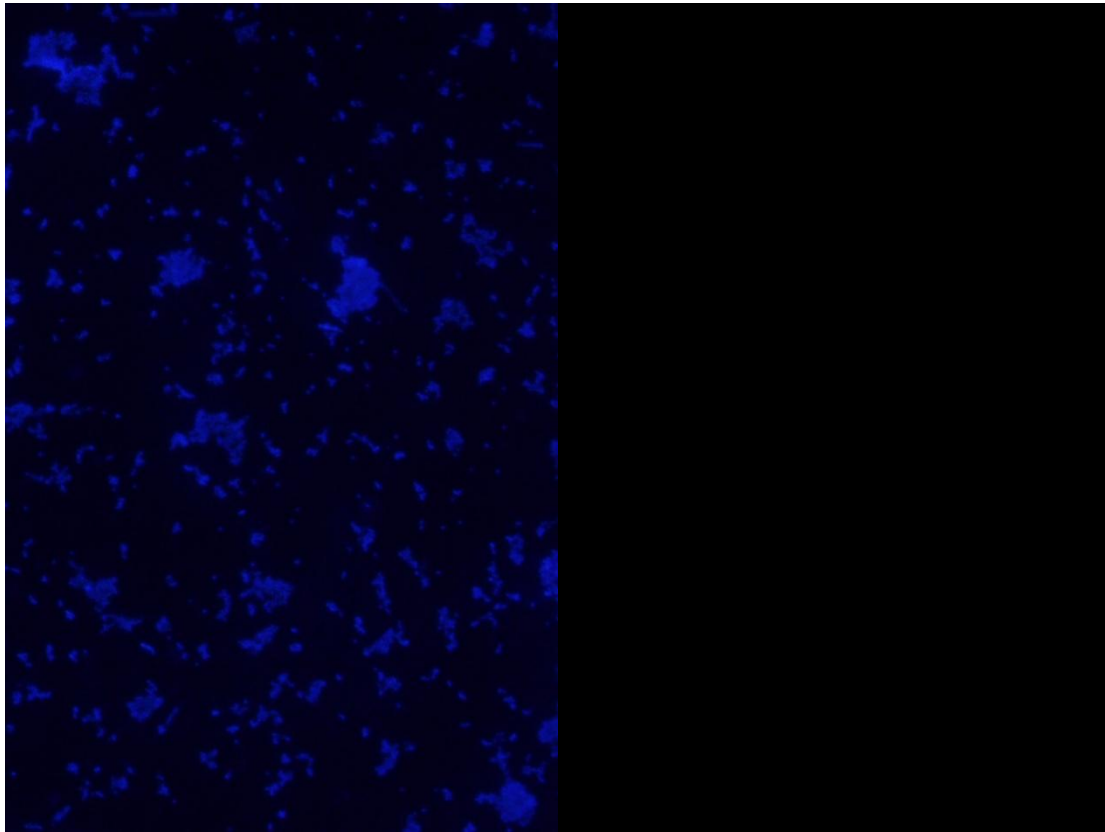
Prevotella illustrans CCUG 72806



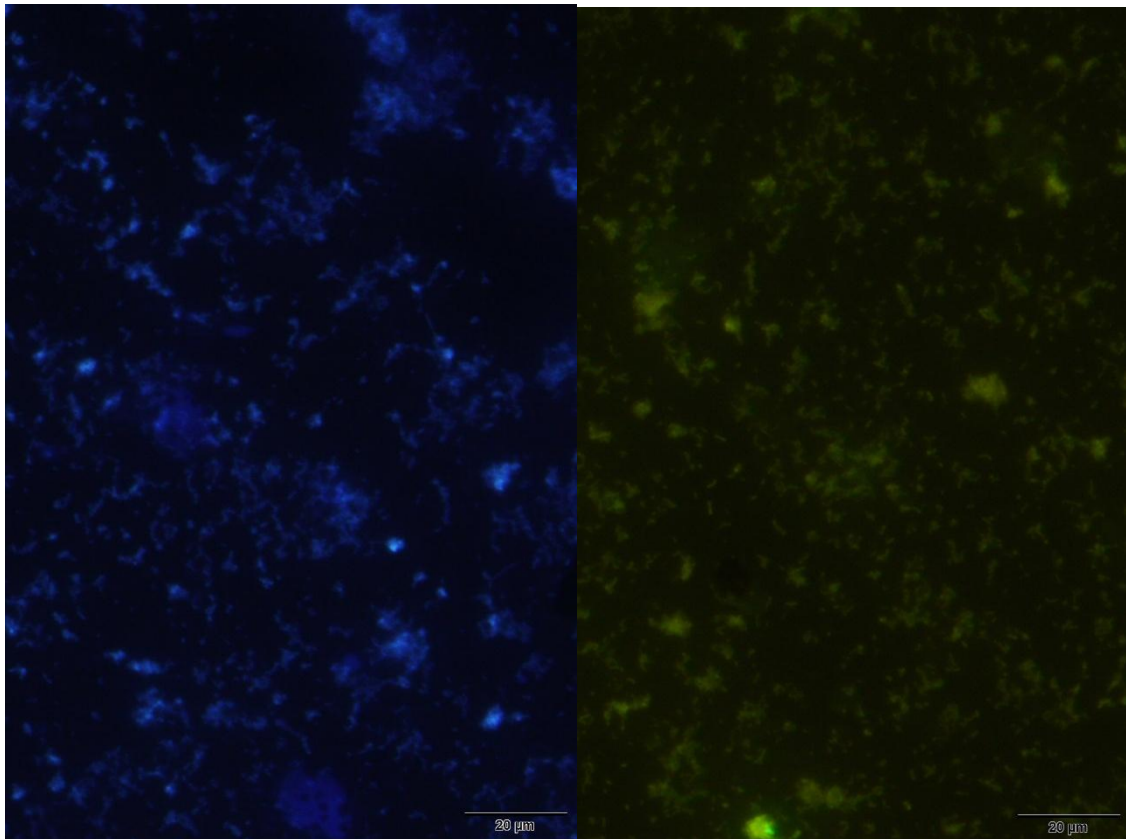
Prevotella imum CCUG 65911



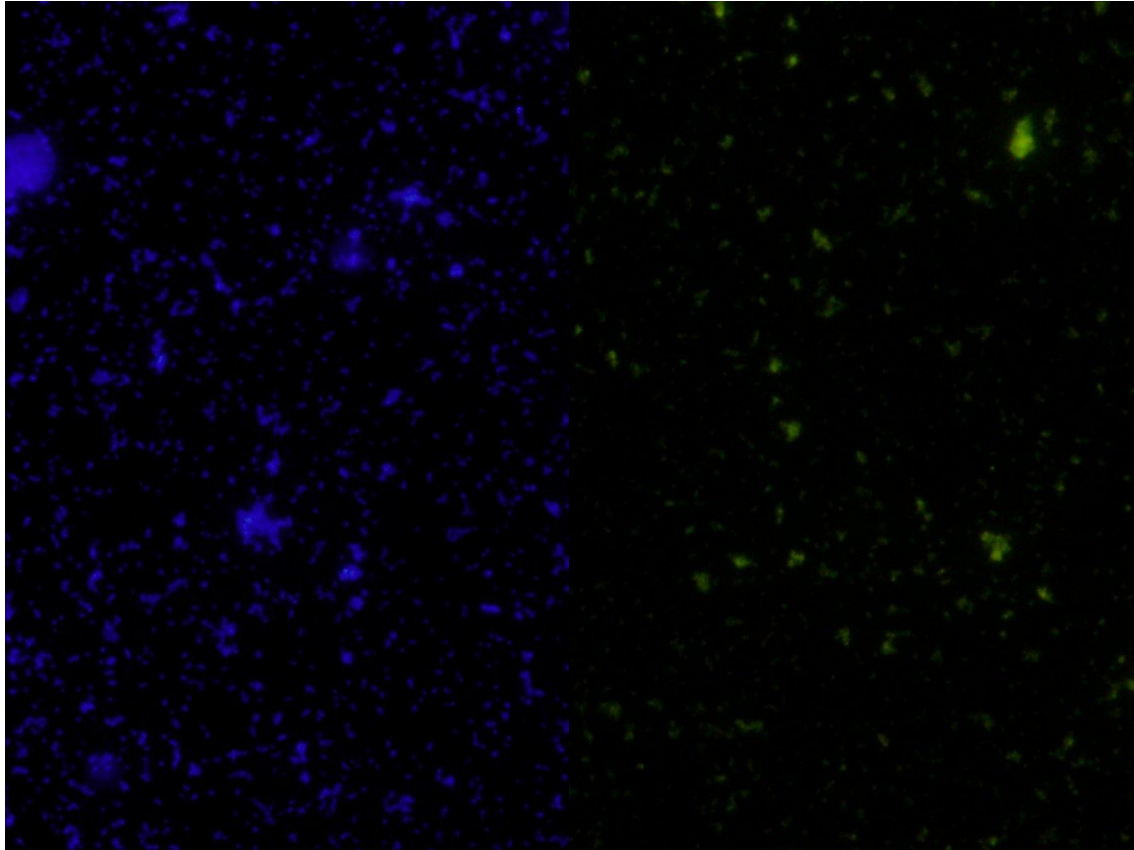
Prevotella intermedia CCUG 31410



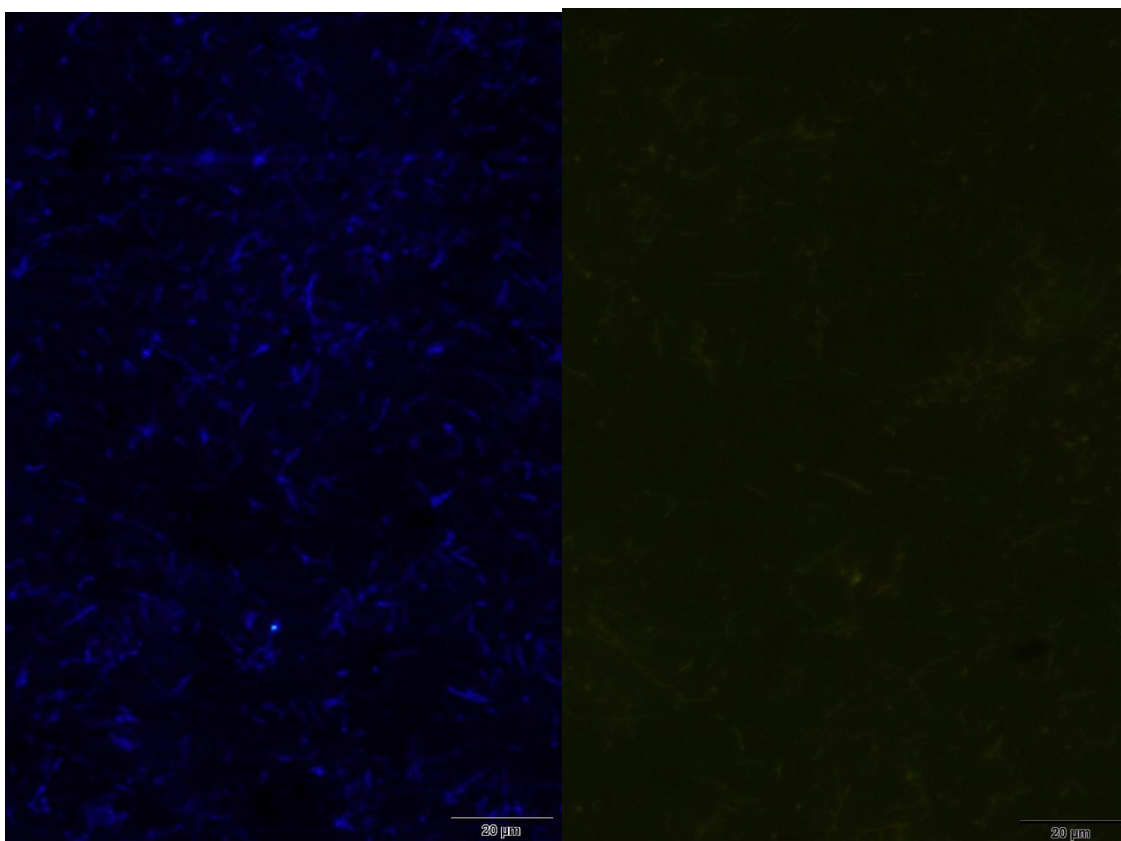
Prevotella jejuni CCUG 60371



Prevotella melaninogenica CCUG 65141

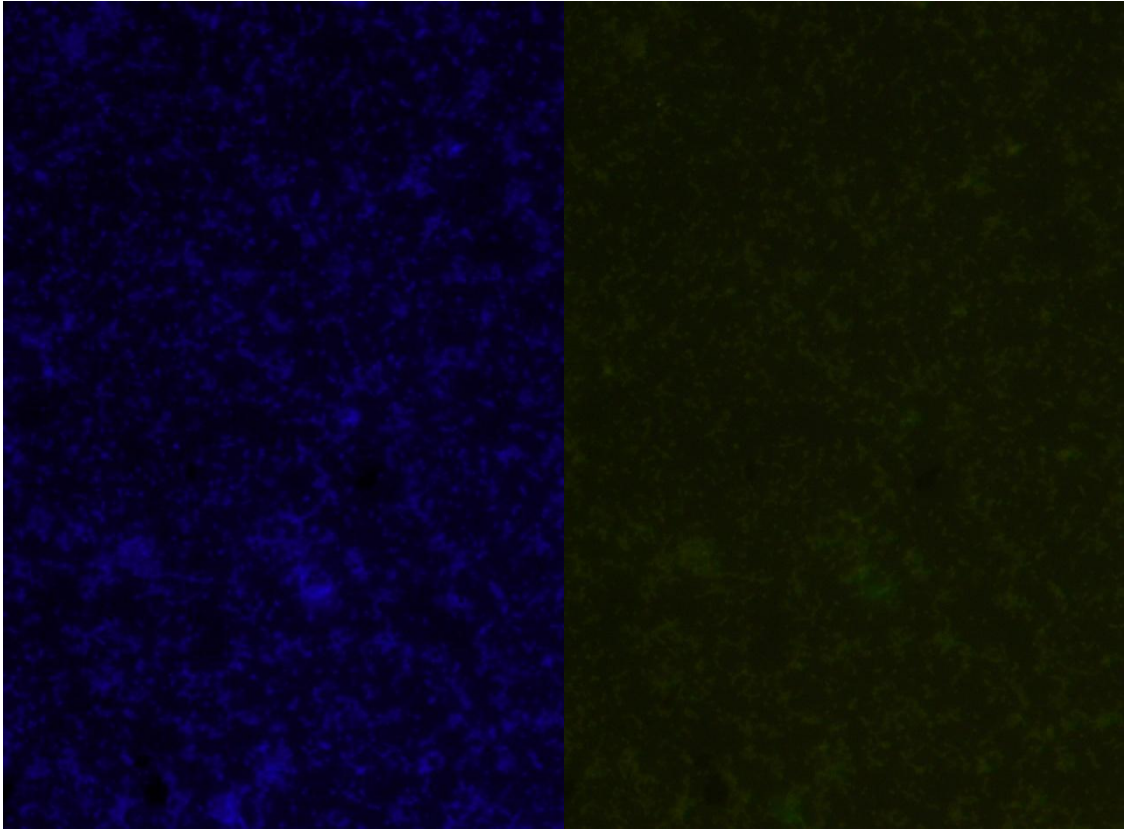


Prevotella micans CCUG 56105

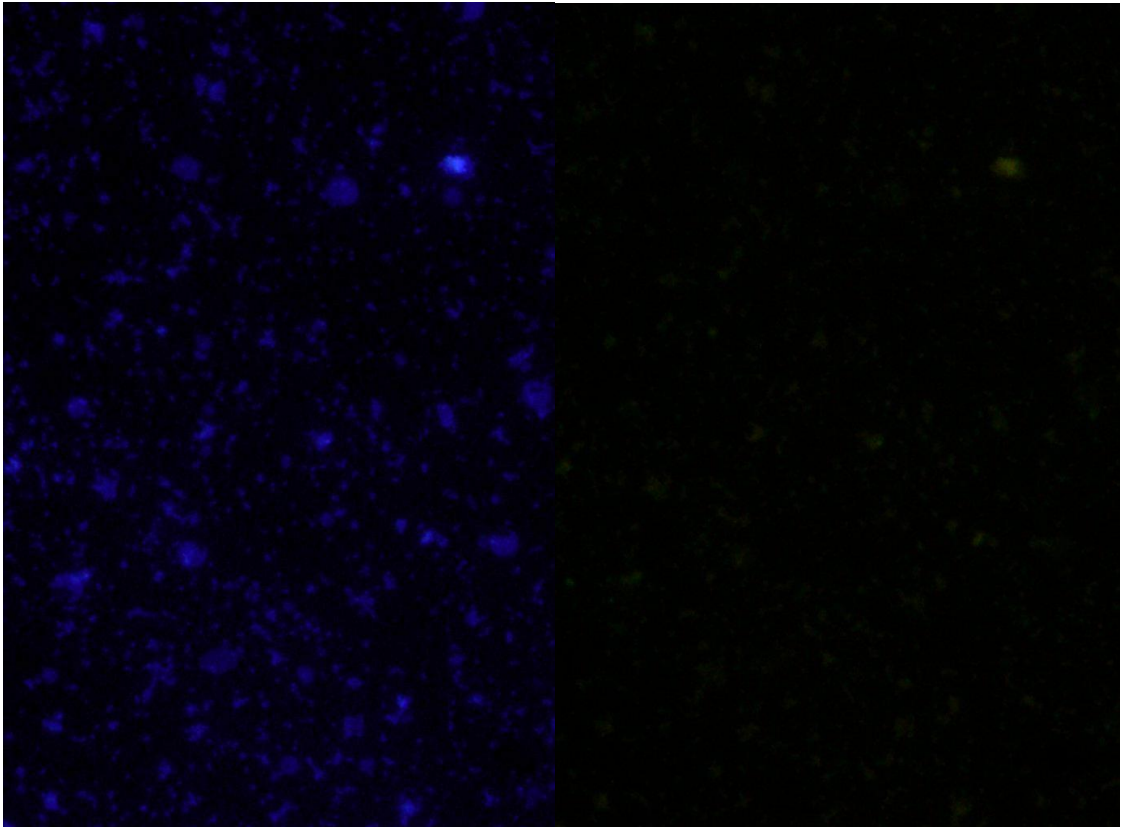


Prevotella multiformis

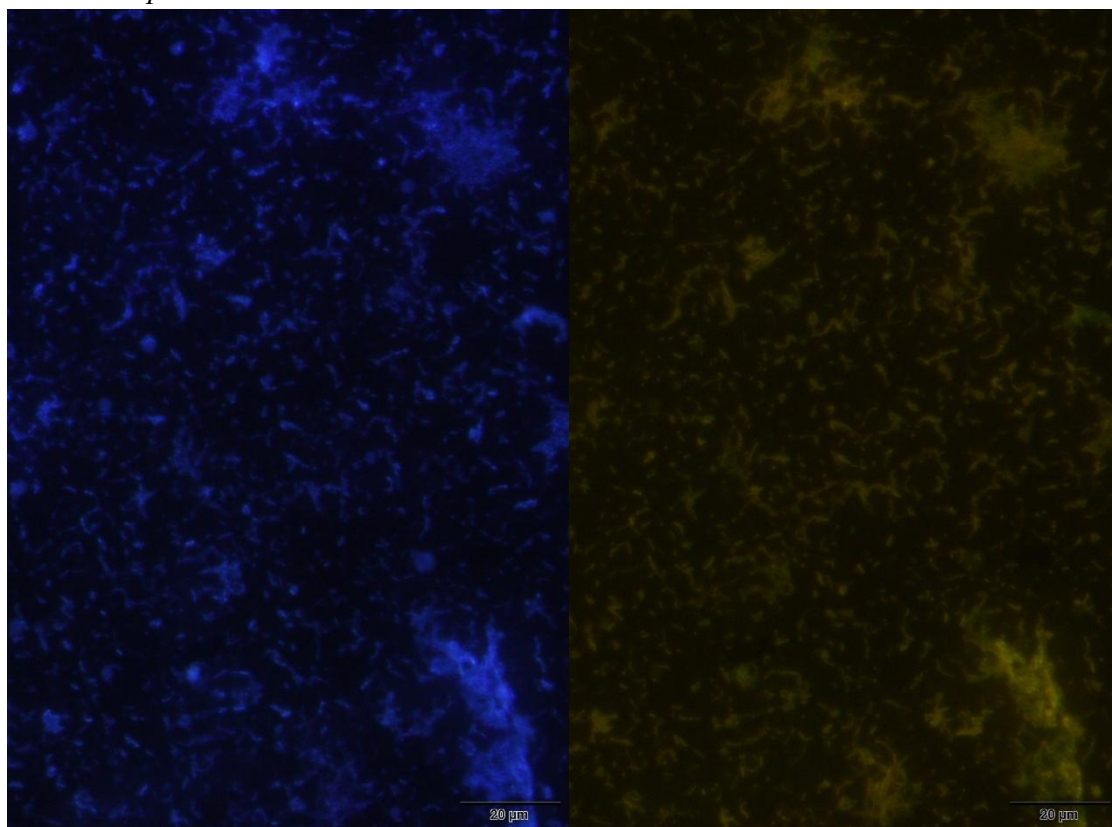
CCUG 51937



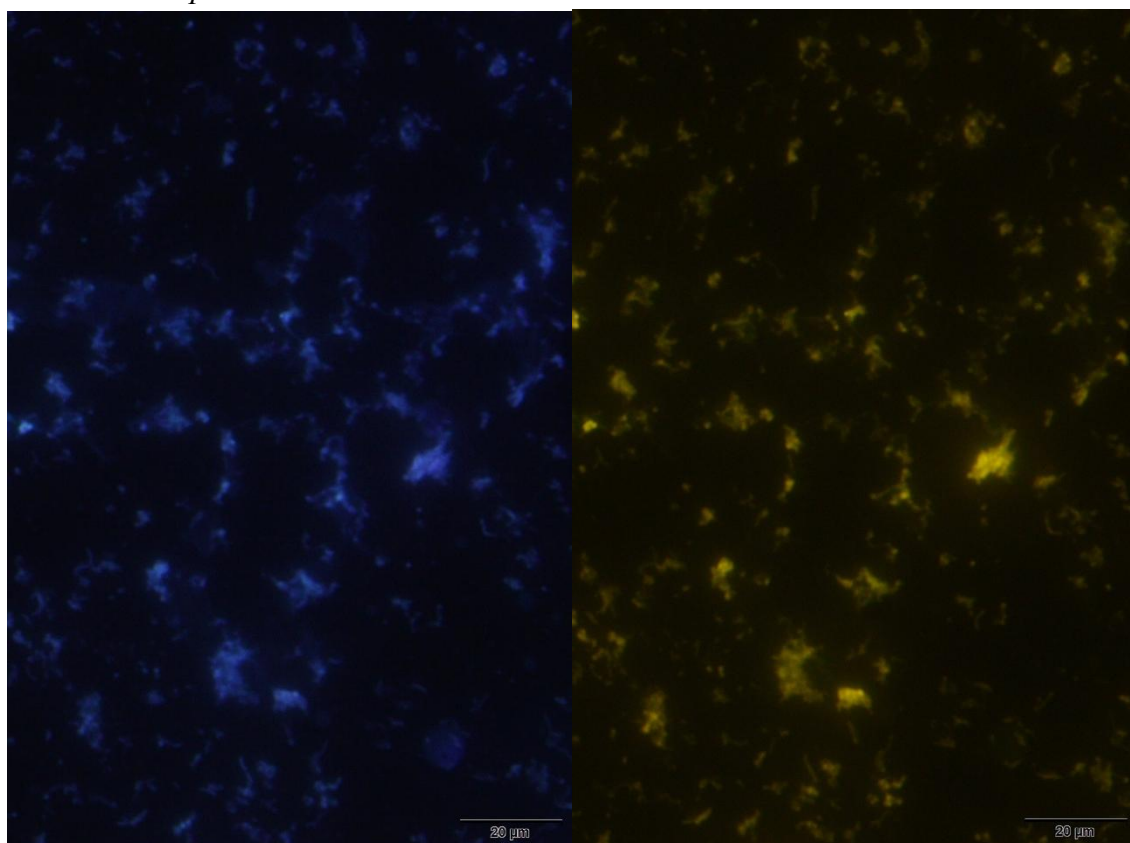
Prevotella nigrescens CCUG 25289



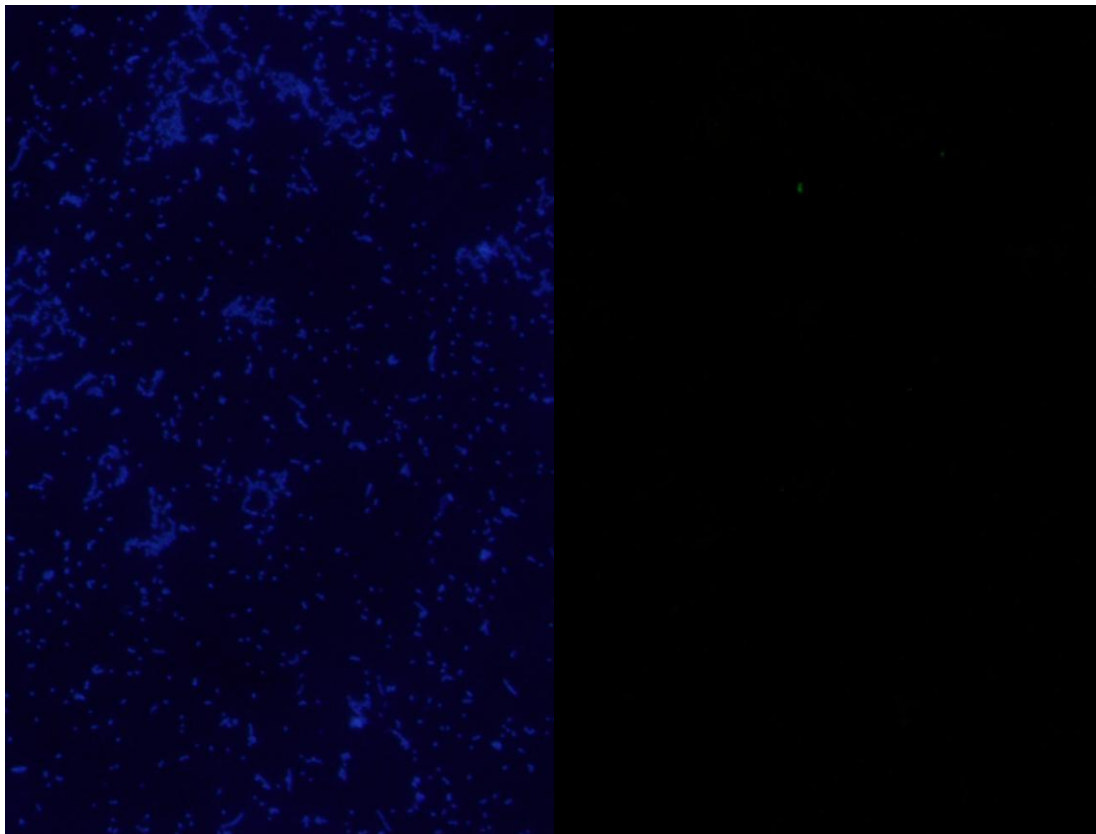
Prevotella pallens CCUG 39484



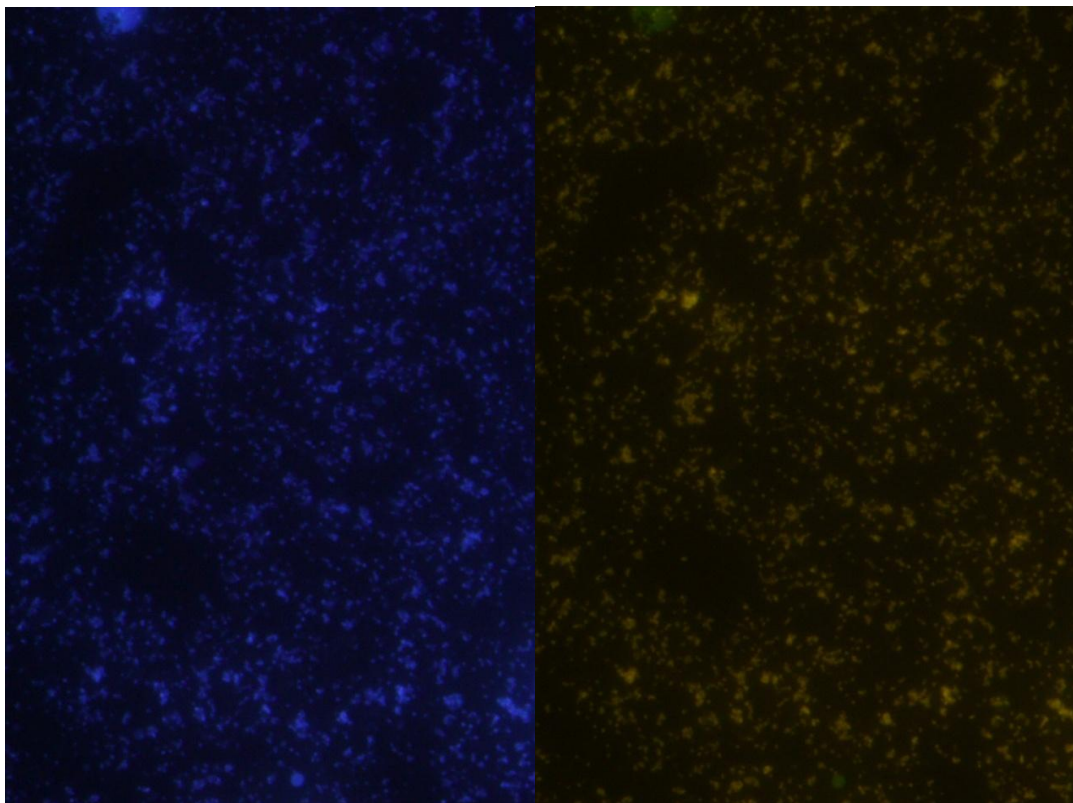
Prevotella scopos CCUG 57945



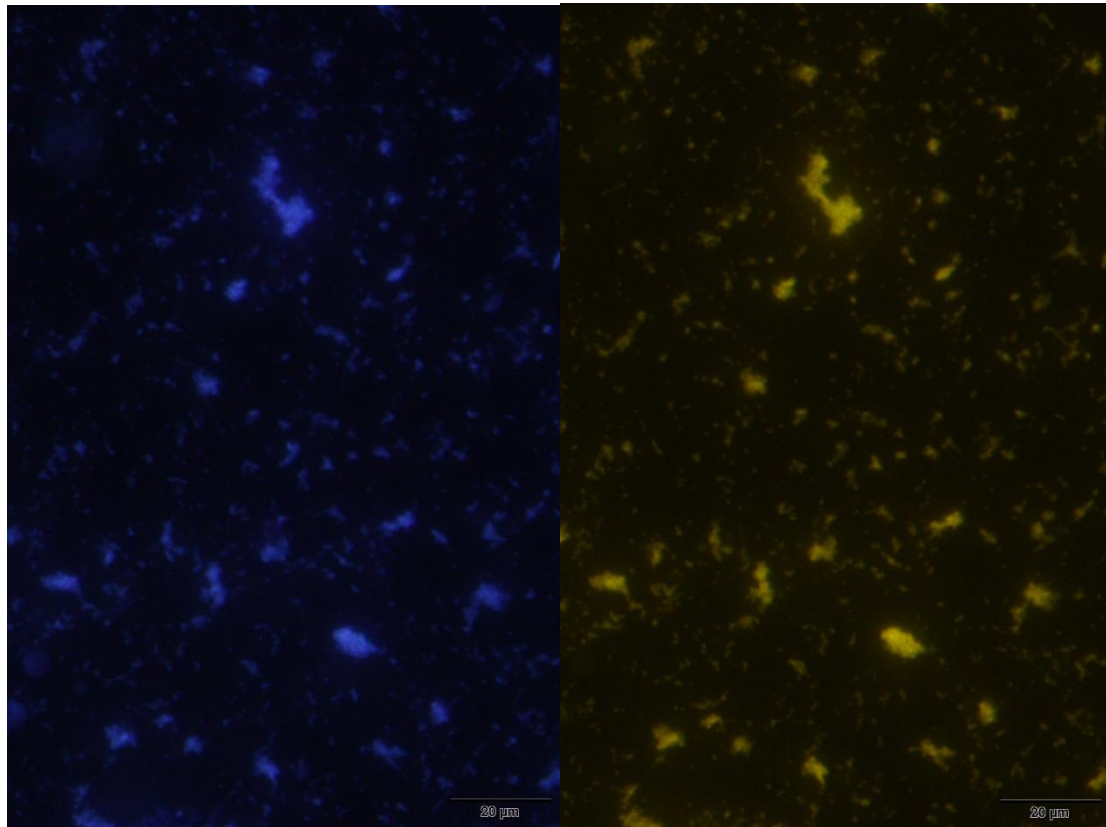
Prevotella timonensis CCUG 59487



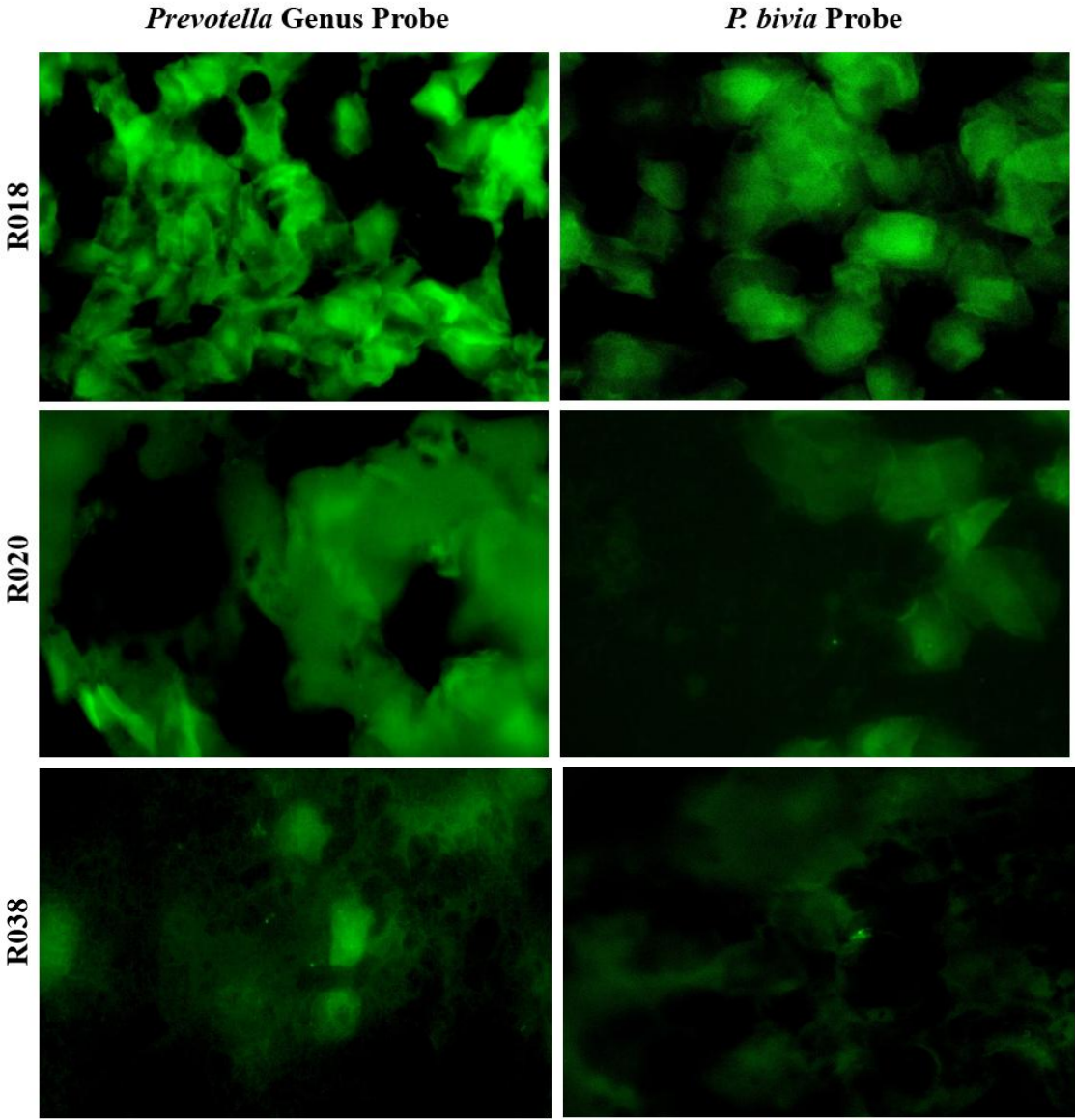
Prevotella veroralis CCUG 15422



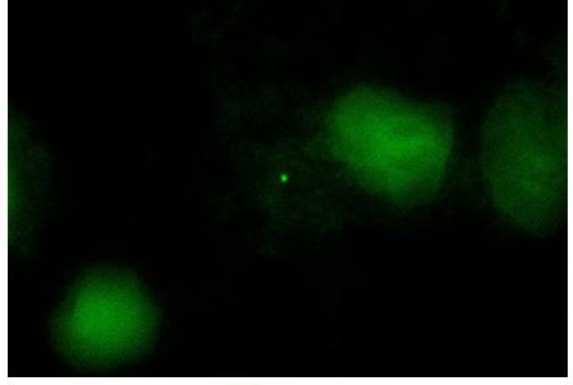
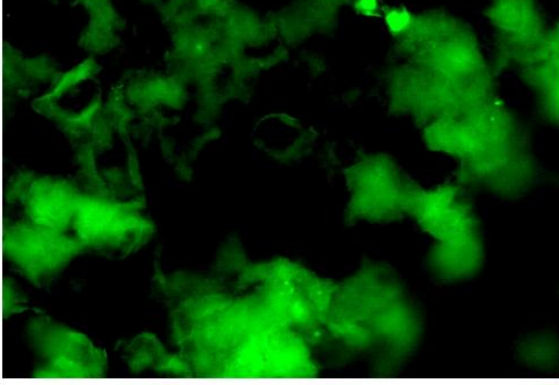
Prevotella vespertine CCUG 72808



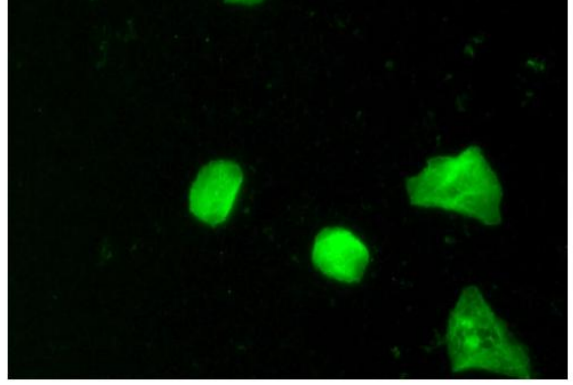
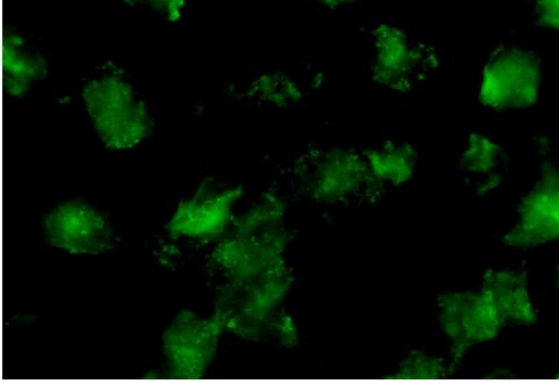
Supplementary Figure 3: Representative images of iBV case vaginal specimens hybridized with the *Prevotella* genus probe (left column) and the *P. bivia* probe (right column). Images taken at 60X magnification on the NanoZoomer S60.



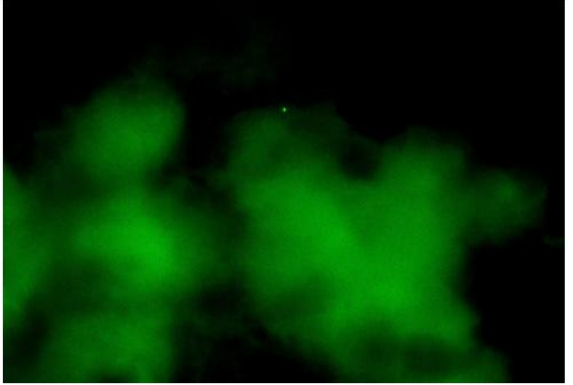
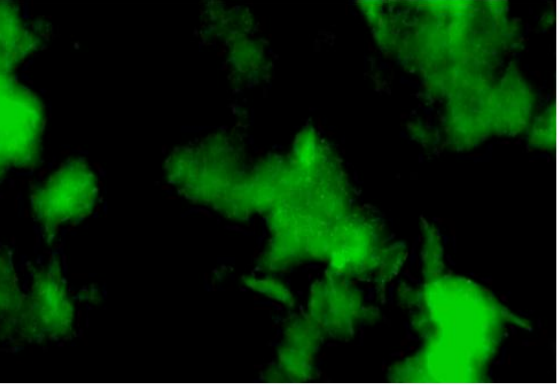
R072



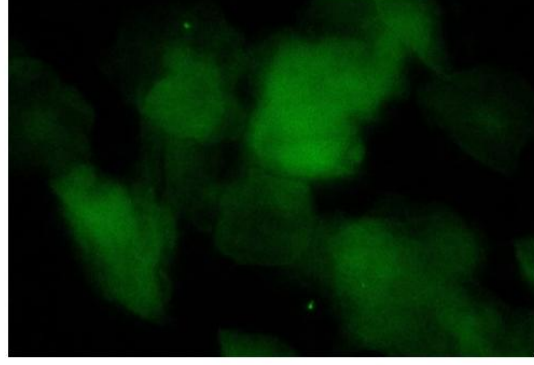
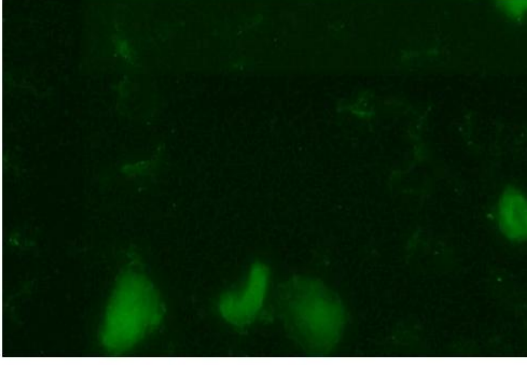
R116



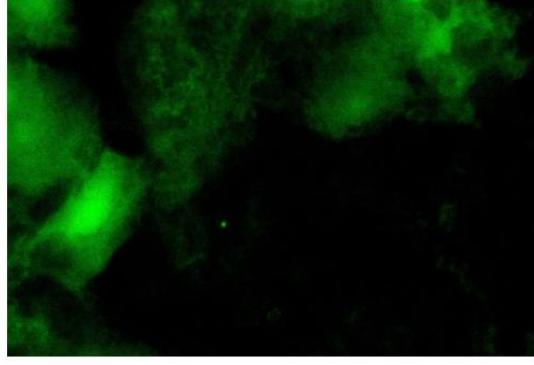
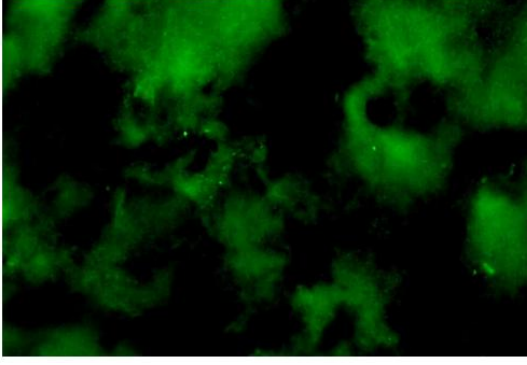
R118



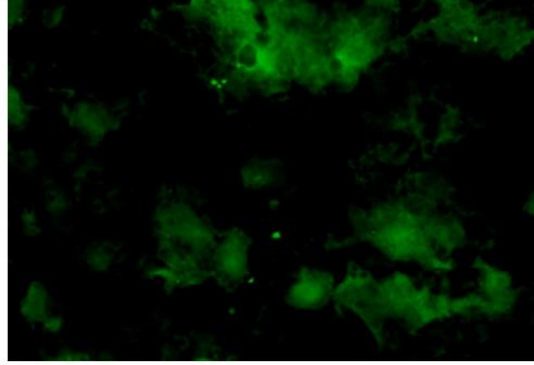
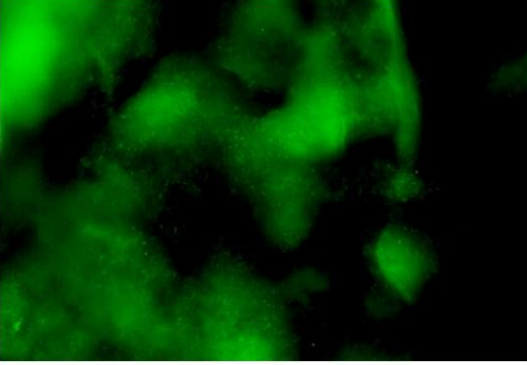
R120



R128

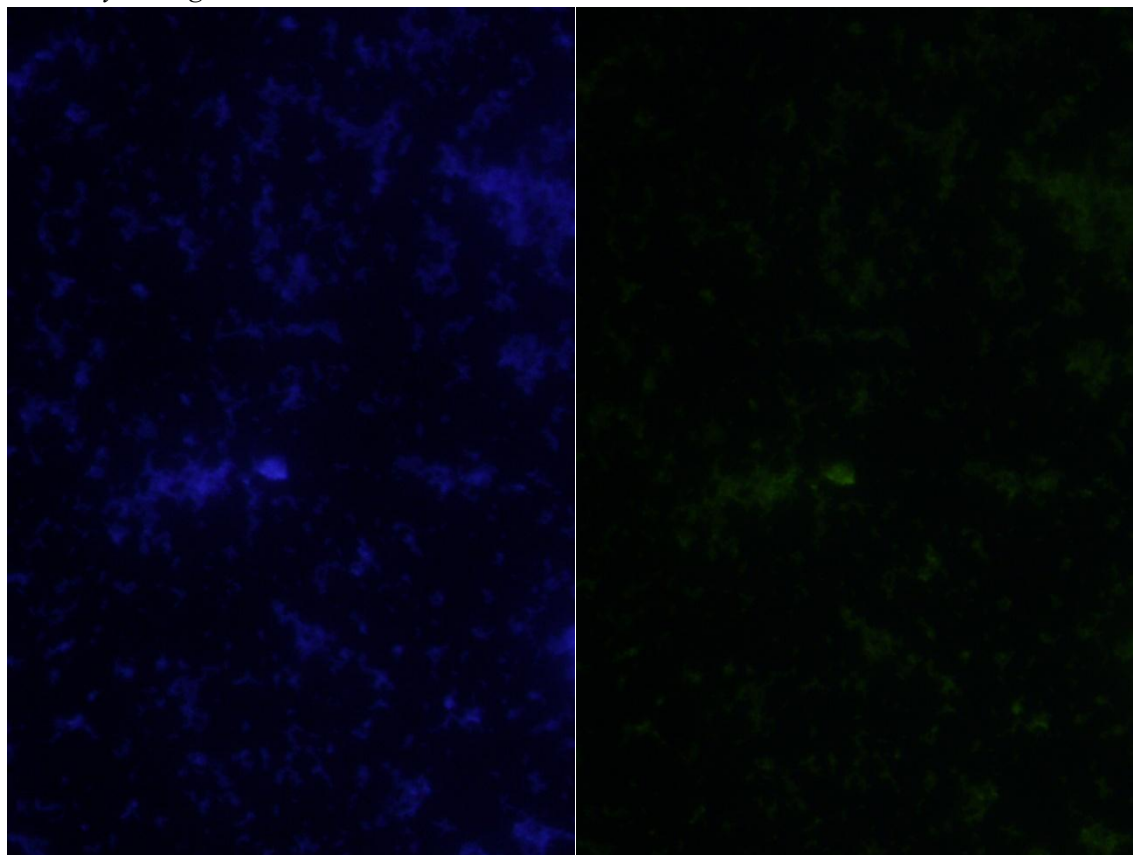


R130

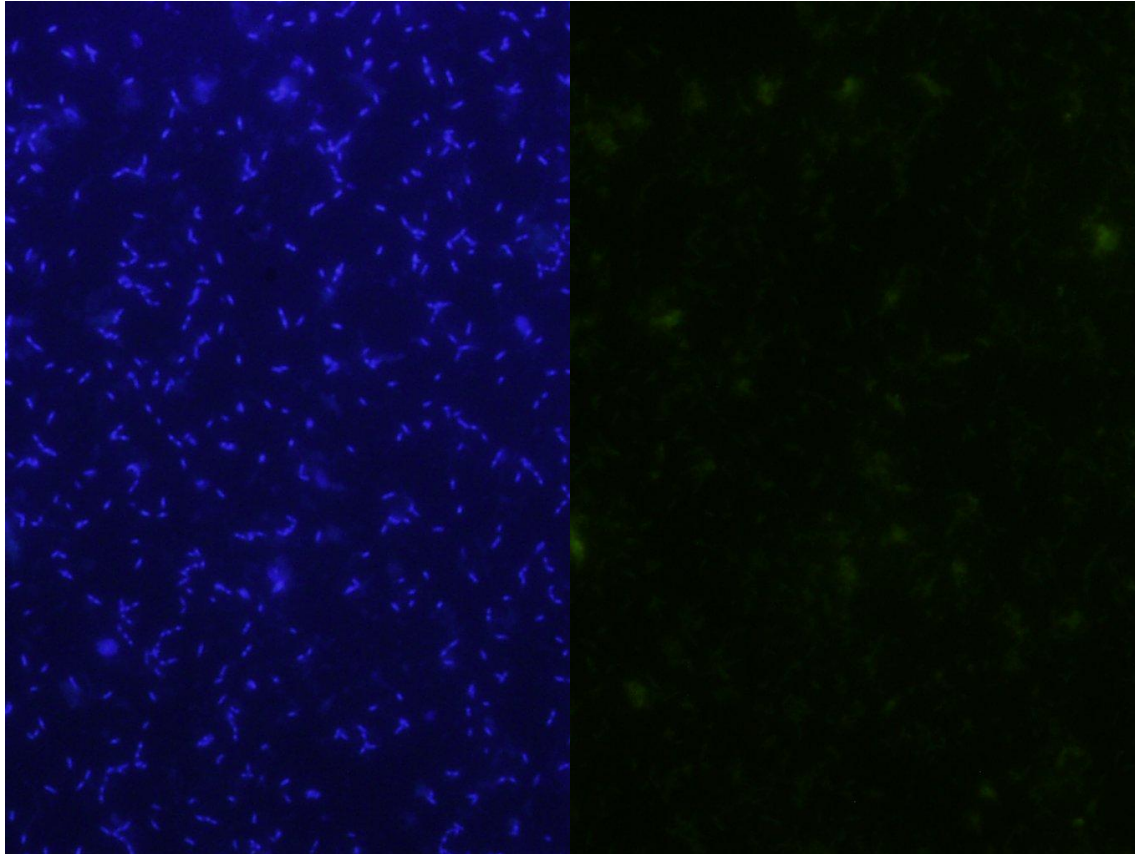


Supplementary Figure 4: The following images show the fluorescence microscopy results for some of the species that present autofluorescence. These species were observed without any probe added to the hybridization solution to confirm if the autofluorescence signal is a result of non-specific hybridization of *P. bivia* PNA probe. The images were acquired on the DAPI filter (left image, blue) and FITC filter (right image, green), sensitive to the Alexa fluor 488, with a magnification 400x.

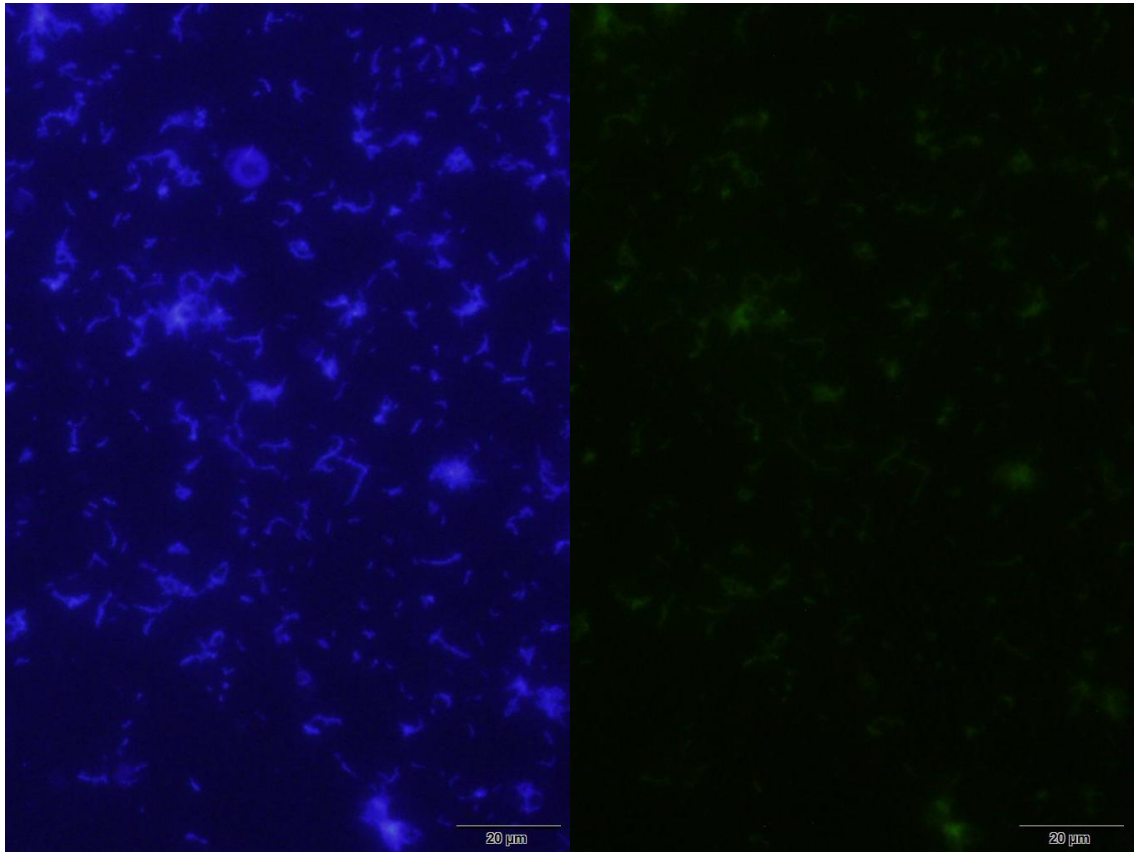
Actinomyces urgenitalis CCUG 44038



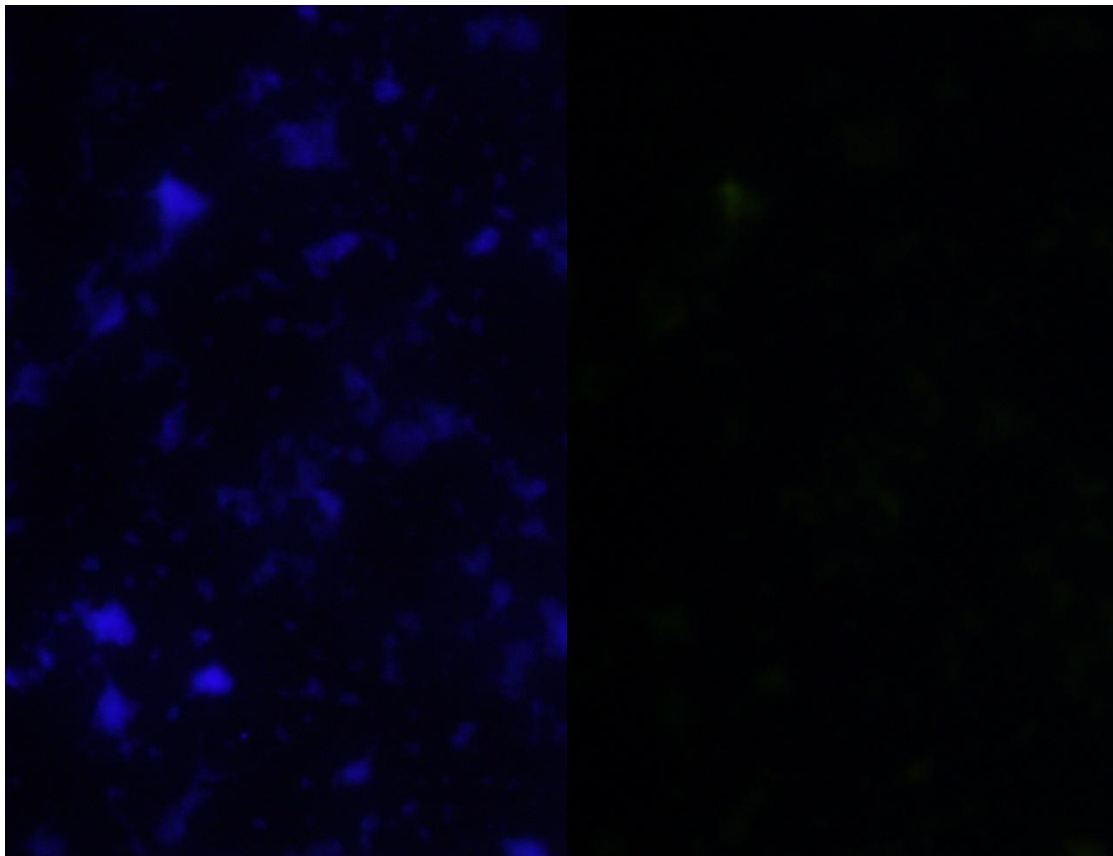
Bacillus firmus UM034



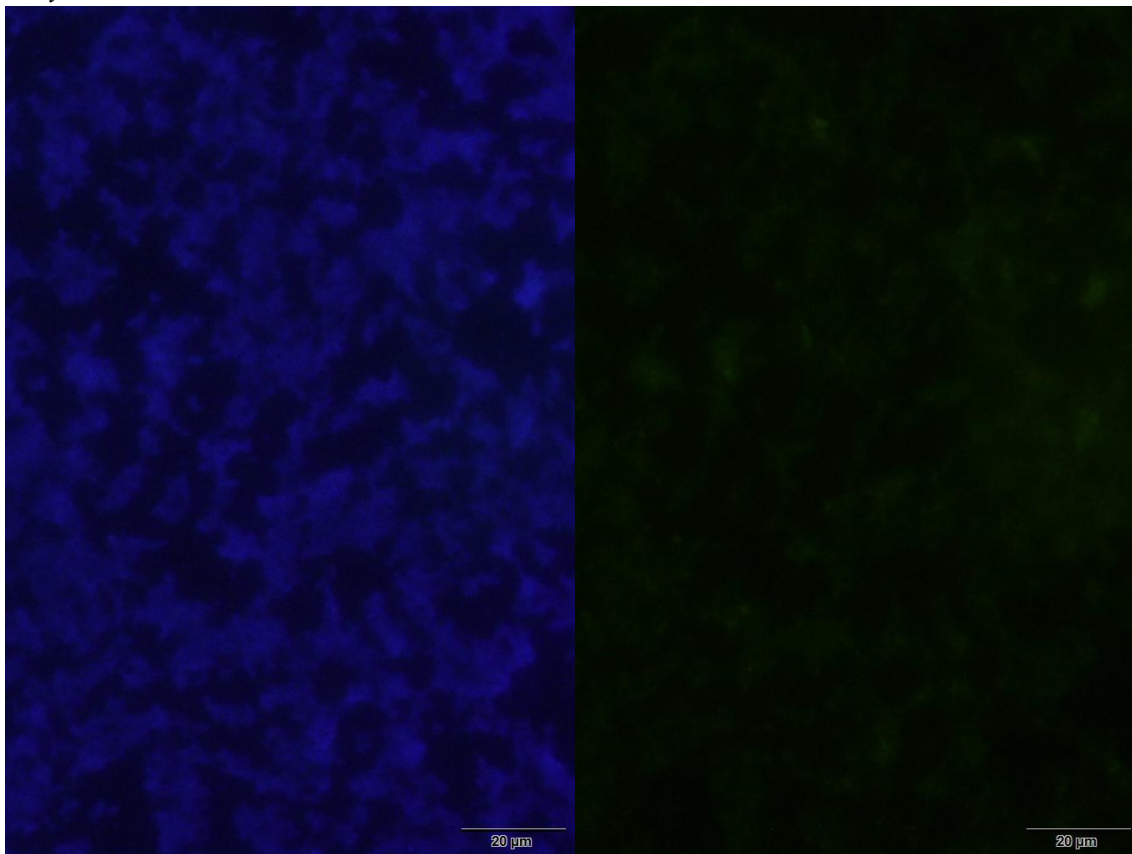
Bifidumbacterium bifidum CCUG 59492



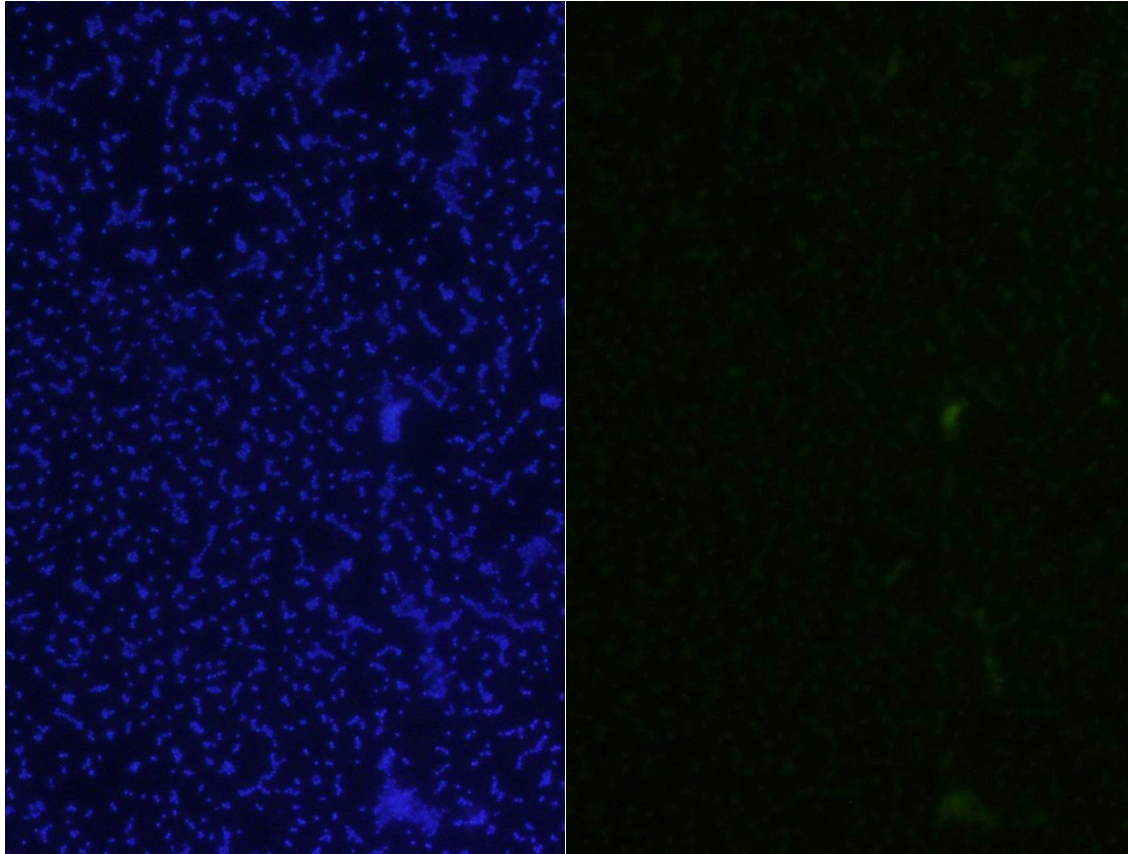
Brevibacterium ravensturnense CCUG 42923



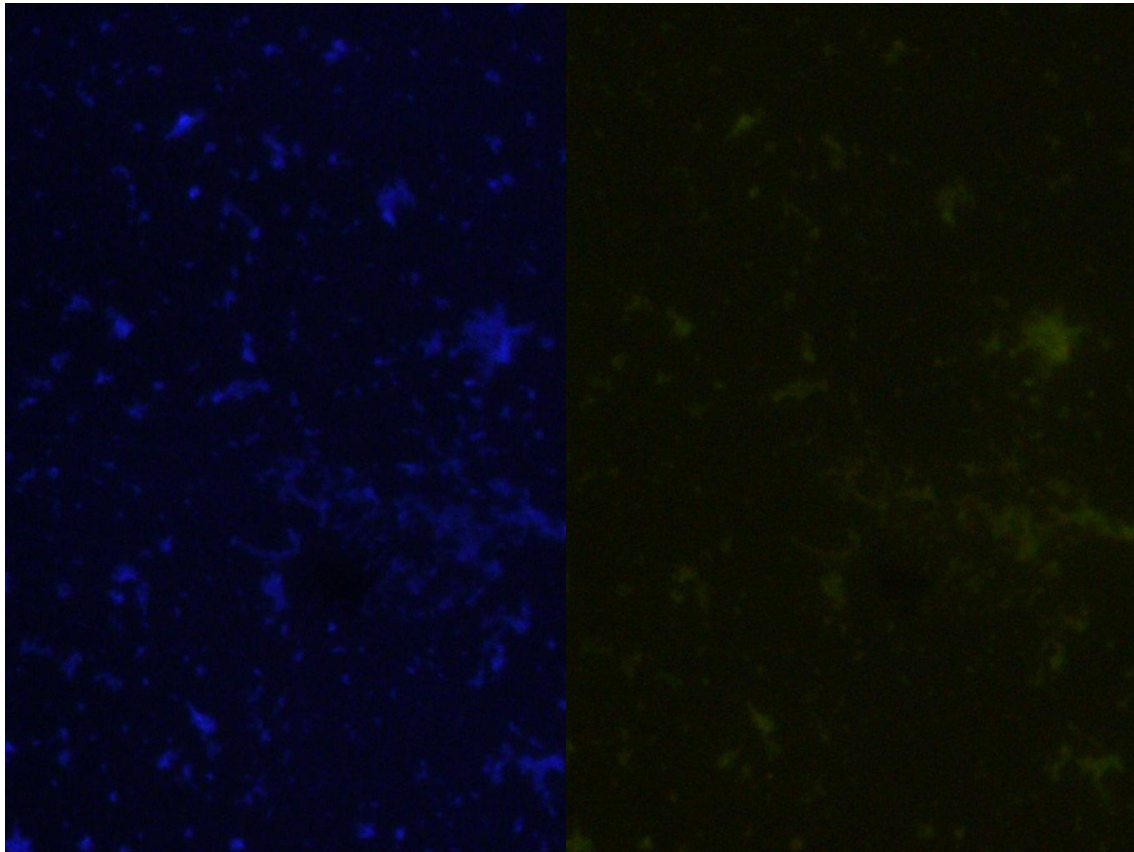
Corynebacterium tuscanense UM137



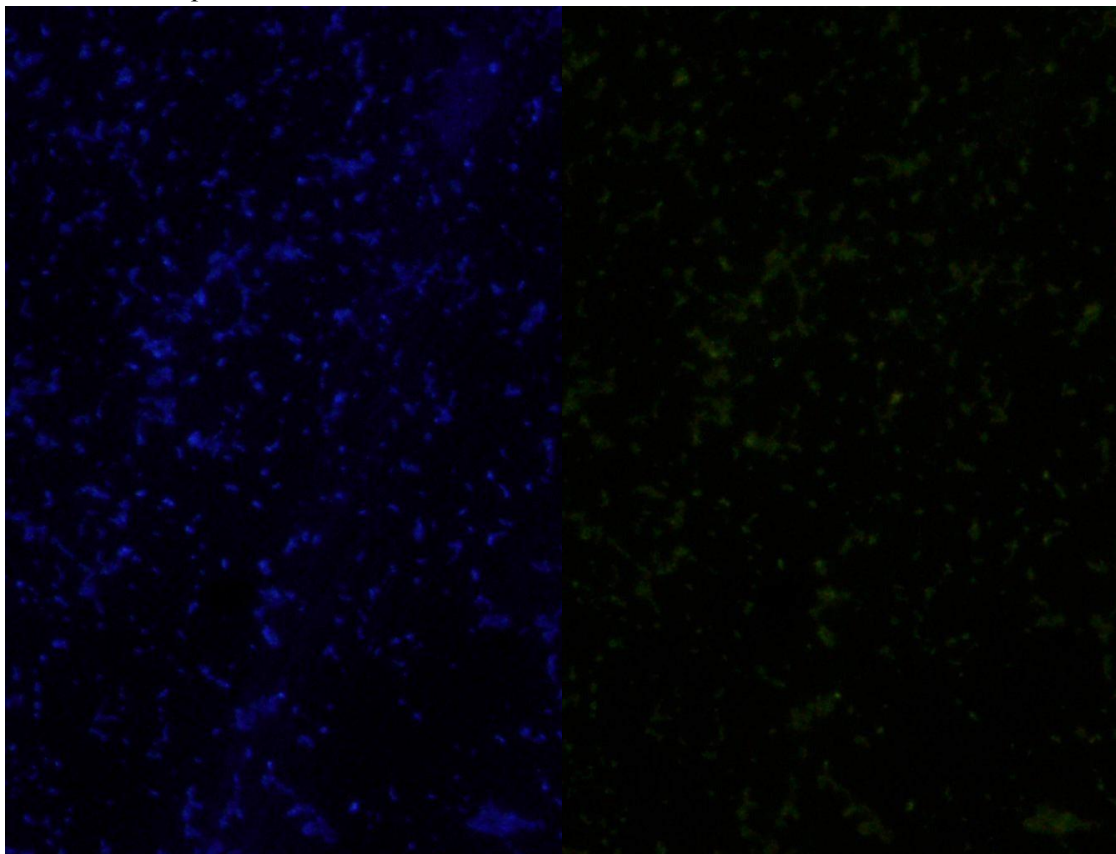
Enterococcus faecalis UM035



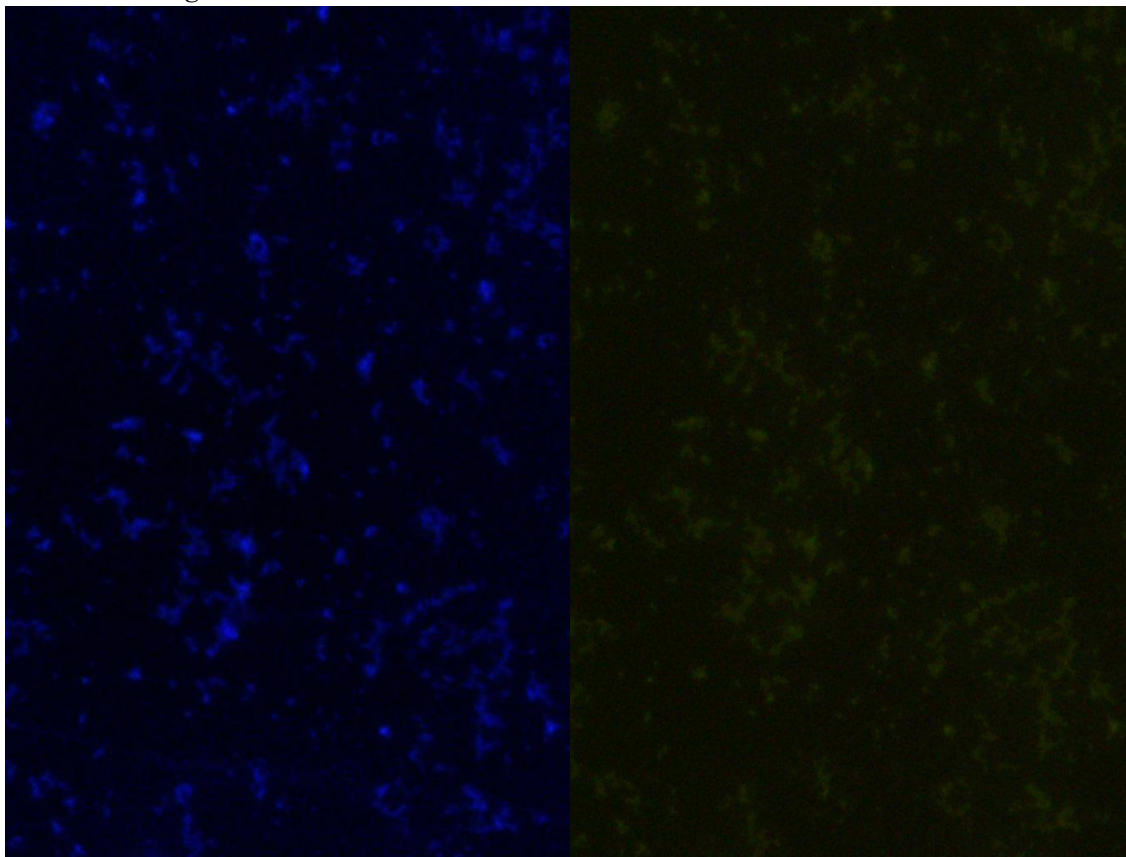
Fannyhessea vaginae ATCC BAA-55



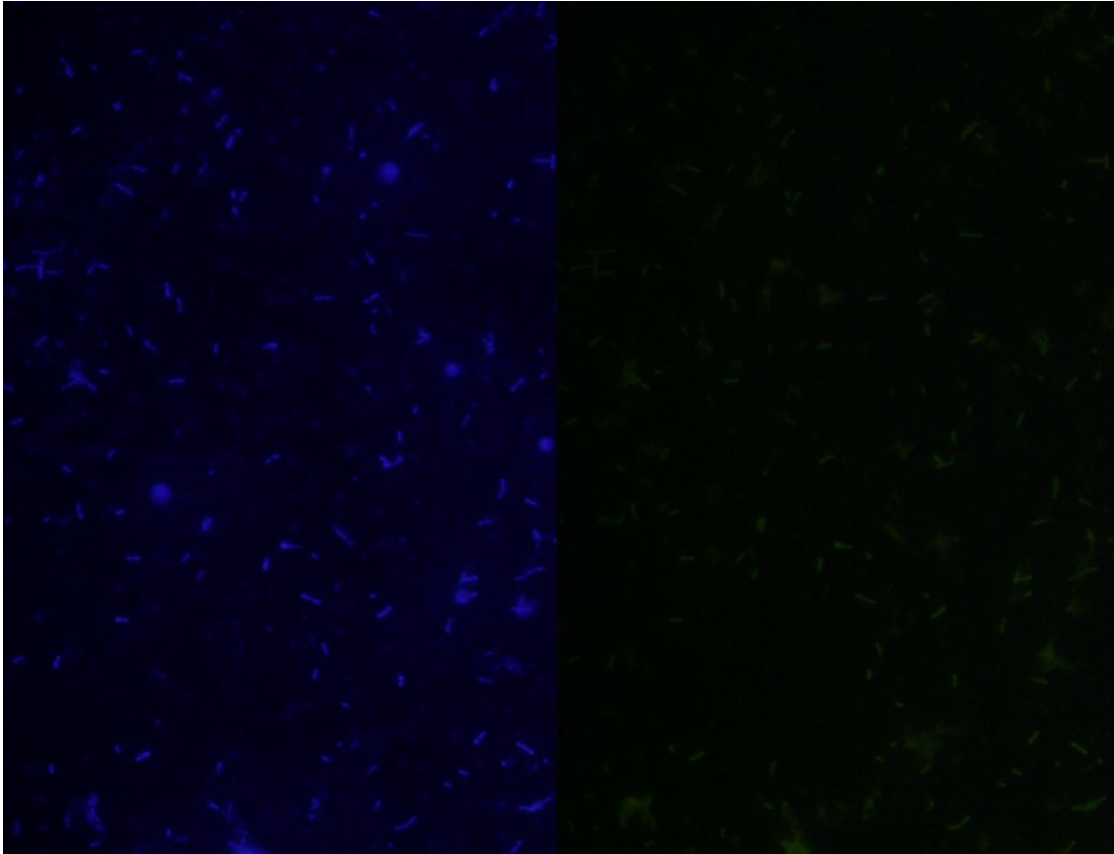
Gardnerella leopoldii UM034



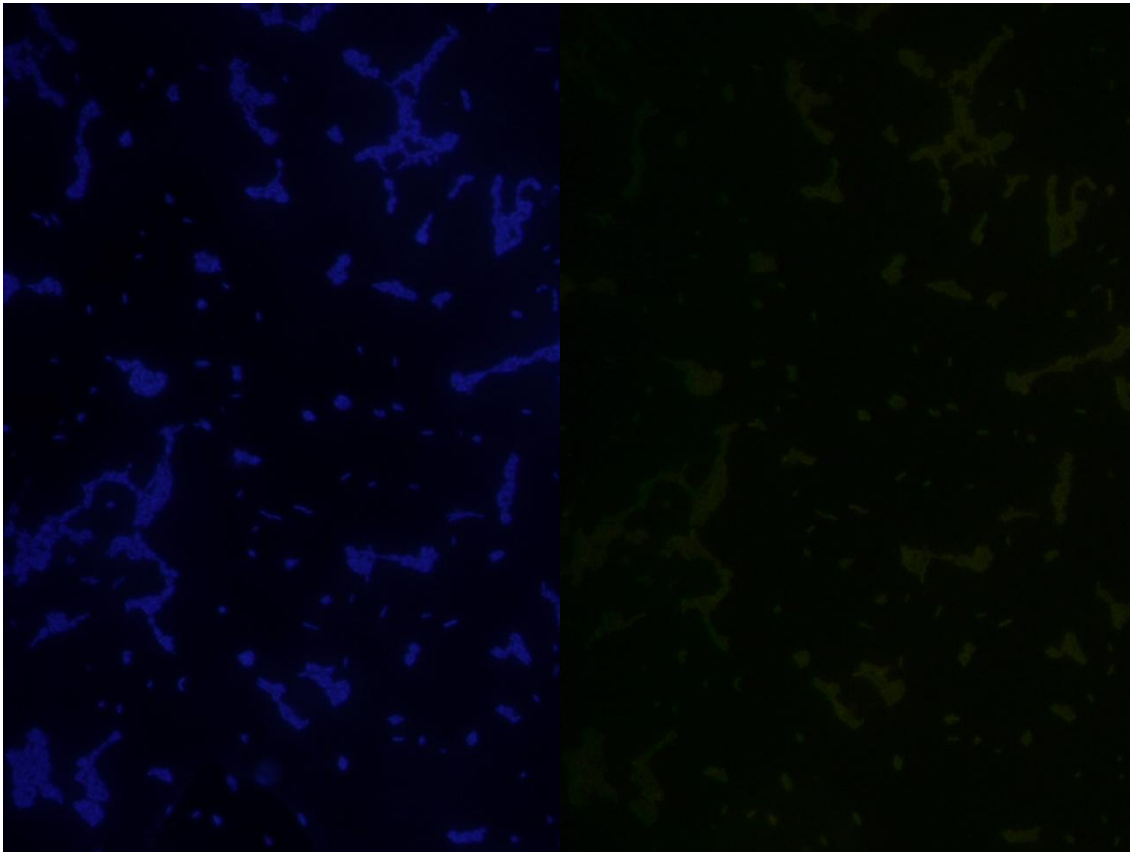
Gardnerella vaginalis ATCC 14018



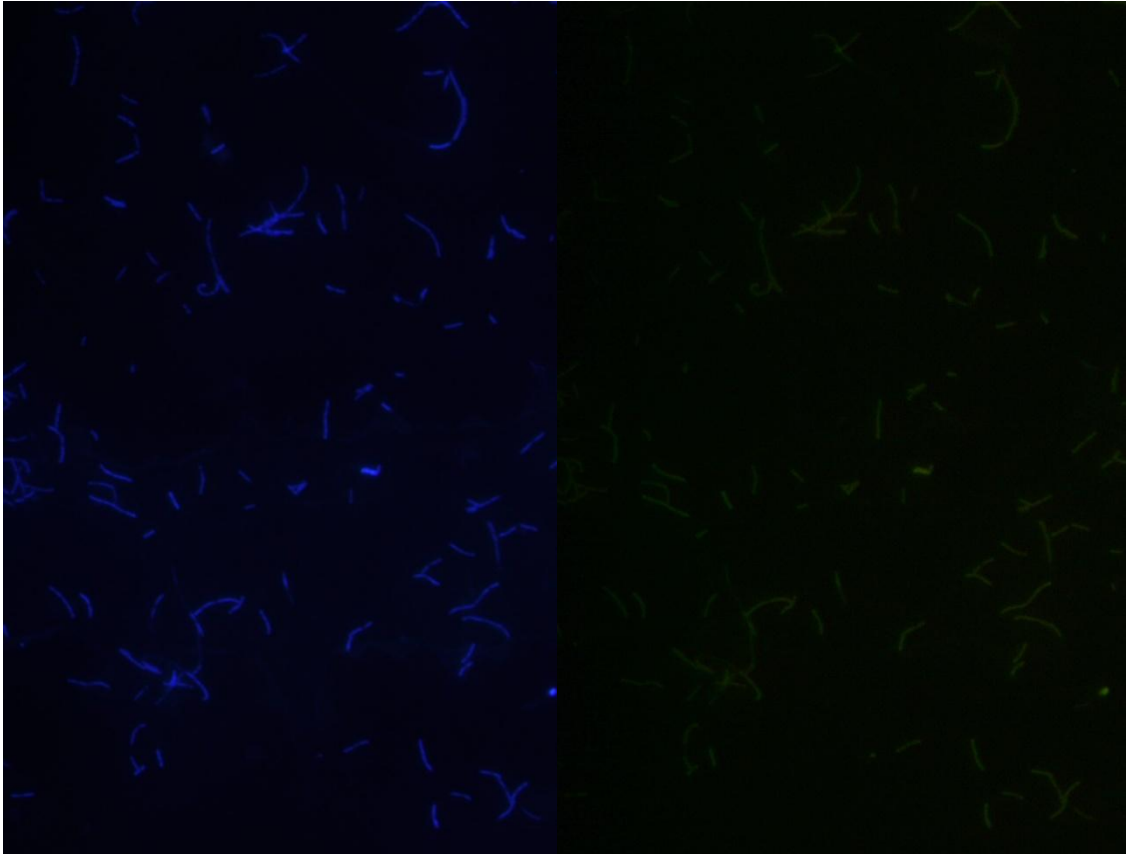
Lactobacillus gasseri ATCC 9857



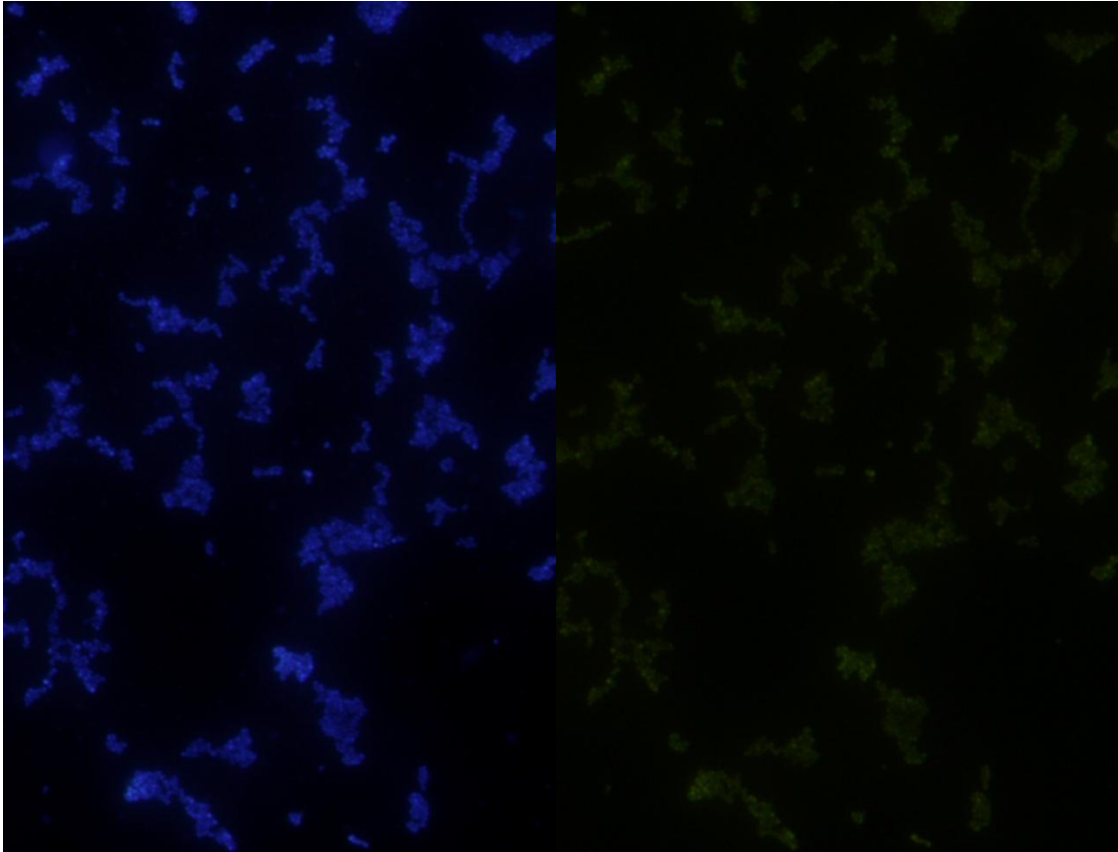
Lactobacillus rhamnosus CECT 288



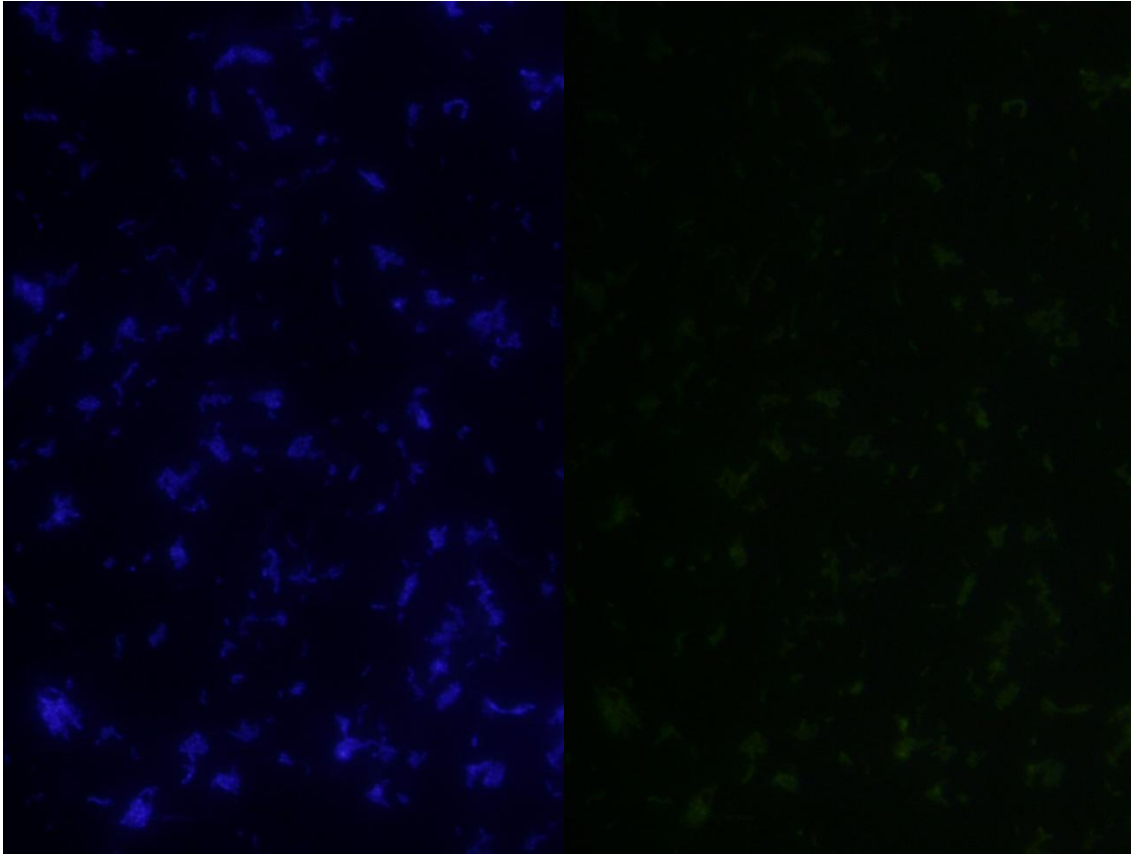
Lactobacillus vaginalis UM062



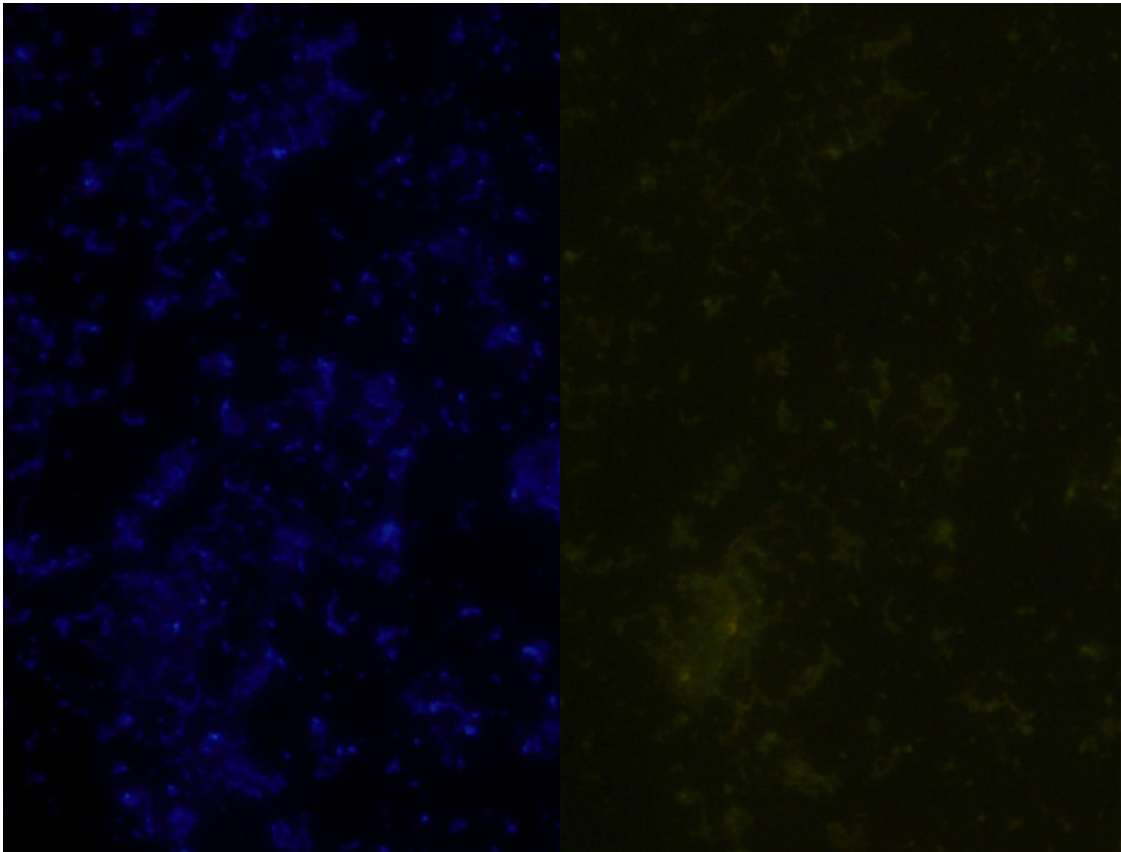
Nosocomiicoccus ampullae UM121



Peptostreptococcus anaerobius ATCC 27337



Cutibacterium acnes UM034



Staphylococcus simulans UM059

