**Supplemental Table 1. COVID-19 BALF Data Sources**

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| **Publication** | **BioProject\*** | **COVID-19 Accession Numbers (Sample Name)** | **Additional Analyses** |
| Chen et al. 2020 [[1]](https://paperpile.com/c/Y03cM1/ujGB) | NCBI BioProject PRJNA601736 | SRR10903401 (patient 2),  SRR10903402 (patient 1) |  |
| Wu et al. 2020 [[2]](https://paperpile.com/c/Y03cM1/m6N1) | NCBI BioProject PRJNA603194 | SRR10971381 (sample 1) |  |
| Zhou et al. 2020a [[3]](https://paperpile.com/c/Y03cM1/fn51) | NCBI BioProject PRJNA605983 | SRR11092058 (WIV02, repeat 1),  SRR11092063 (WIV02, repeat 2),  SRR11092057 (WIV04, repeat 1),  SRR11092062 (WIV04, repeat 2),  SRR11092061 (WIV05),  SRR11092060 (WIV06, repeat 1),  SRR11092056 (WIV06, repeat 2),  SRR11092059 (WIV07, repeat 1),  SRR11092064 (WIV07, repeat 2) |  |
| Xiong et al. 2020 [[4]](https://paperpile.com/c/Y03cM1/Dy9O) | NGDB BioProject PRJCA002326 | Peripheral blood mononuclear cell samples: CRR119891 (PBMC P1), CRR119892 (PBMC P2), CRR119893 (PBMC P3)  Bronchoalveolar lavage fluid samples:  CRR119894 (BALF patient 1, repeat 1),  CRR119895 (BALF patient 1, repeat 2),  CRR119896 (BALF patient 2, repeat 1),  CRR119897 (BALF patient 2, repeat 2) |  |
| Shen et al. 2020 [[5]](https://paperpile.com/c/Y03cM1/Yuay) | NCBI BioProject PRJNA605907 | The paired and single-end reads in each accession were analyzed separately:  SRR11059947 (nCov1), SRR11059946 (nCov2), SRR11059945 (nCov3), SRR11059944 (nCov4), SRR11059943 (nCov5), SRR11059942 (nCov6), SRR11059941 (nCov7), SRR11059940 (nCov8) | Di Giorgio et al. 2020 [[10]](https://paperpile.com/c/Y03cM1/i14u) |
| Shen et al. 2020 [[5]](https://paperpile.com/c/Y03cM1/Yuay) | NGDB BioProject PRJCA002202 | CRR125949 (nCov1), CRR125941 (nCov1), CRR125948 (nCov2), CRR125940 (nCov2), CRR125947 (nCov3), CRR125939 (nCov3), CRR125946 (nCov4), CRR125938 (nCov4), CRR125945 (nCov5), CRR125937 (nCov5), CRR125944 (nCov6), CRR125936 (nCov6), CRR125943 (nCov7), CRR125935 (nCov7), CRR125942 (nCov8), CRR125934 (nCov8) | Haiminen et al. 2020 [[11]](https://paperpile.com/c/Y03cM1/pvat); Zhou et al. 2020b [[12]](https://paperpile.com/c/Y03cM1/3UGH) |

**Supplemental Table 2. Non-COVID-19 BALF Data Sources**

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| **Publication** | **BioProject\*** | **Non-COVID-19 Accession Numbers (Sample Name)** | **Additional Analyses** |
| Xiong et al. 2020 [[4]](https://paperpile.com/c/Y03cM1/Dy9O) | NGDB BioProject PRJCA002326 | Peripheral blood mononuclear cell samples:  CRR119890 (PBMC N1), CRR125445 (PBMC N2), CRR125446 (PBMC N3) |  |
| Shen et al. 2020 [[5]](https://paperpile.com/c/Y03cM1/Yuay) | NGDB BioProject PRJCA002202 | Healthy individuals:  CRR125950 (H01), CRR125951 (H02),  CRR125952 (H03), CRR125953 (H04),  CRR125954 (H05), CRR125955 (H06),  CRR125956 (H07), CRR125957 (H08),  CRR125958 (H09), CRR125959 (H10),  CRR125960 (H11), CRR125961 (H12),  CRR125962 (H13), CRR125963 (H14),  CRR125964 (H15), CRR125965 (H16),  CRR125966 (H17), CRR125967 (H18),  CRR125968 (H19), CRR125969 (H20)  Individuals with community acquired pneumonia, likely viral infections, with sequence identified respiratory virus:  Human mastadenovirus B  CRR125970 (V01)  Measles morbillivirus  CRR125975 (V06)  Human coronavirus HKU1  CRR125986 (V17)  Rhinovirus A  CRR125971 (V02), CRR125973 (V04),  CRR125974 (V05), CRR125981 (V12),  CRR125982 (V13), CRR125990 (V21)  Rhinovirus B  CRR125972 (V03), CRR125988 (V19),  CRR125989 (V20)  Rhinovirus C  CRR125976 (V07)  Influenza A  CRR125977 (V08), CRR125978 (V09),  CRR125979 (V10), CRR125987 (V18)  Influenza B  CRR125980 (V11), CRR125992 (V23)  Enterovirus D  CRR125983 (V14), CRR125984 (V15),  CRR125985 (V16)  Human orthopneumovirus  CRR125991 (V22), CRR125993 (V24),  CRR125994 (V25)  Negative controls:  CRR125995 (nc1), CRR125996 (nc2),  CRR125997 (nc3), CRR125998 (nc3\_se) | Haiminen et al. 2020 [[11]](https://paperpile.com/c/Y03cM1/pvat) |
| Michalovich et al. 2019 [[6]](https://paperpile.com/c/Y03cM1/0Oiw) | NCBI BioProject PRJNA434133 | Obese, asthma, non-smokers:  SRR10571663 (SIB004), SRR10571660 (SIB006),  SRR10571655 (SIB012),  SRR10571743 (SIB015), SRR10571725 (SIB035), SRR10571723 (SIB037), SRR10571757 (SIB044), SRR10571755 (SIB046), SRR10571752 (SIB049)  Obese, non-asthma, non-smokers:  SRR10571662 (SIB005), SRR10571657 (SIB010), SRR10571744 (SIB014), SRR10571736 (SIB023), SRR10571735 (SIB024),  SRR10571734 (SIB025)  Obese, non-asthma, smokers:  SRR10571664 (SIB003), SRR10571659 (SIB007),  SRR10571658 (SIB008), SRR10571656 (SIB011), SRR10571741 (SIB018)  Obese, asthma, smokers:  SRR10571756 (SIB045)  Non-obese, non-asthma, smokers:  SRR10571728 (SIB031), SRR10571739 (SIB019), SRR10571754 (SIB047)  Non-obese, asthma, non-smokers:  SRR10571665 (SIB002), SRR10571742 (SIB016), SRR10571738 (SIB021), SRR10571737 (SIB022), SRR10571731 (SIB029), SRR10571722 (SIB038), SRR10571720 (SIB042)  Non-obese, asthma, smokers:  SRR10571727 (SIB032), SRR10571719 (SIB043)  Non-obese, asthma, ex-smokers:  SRR10571726 (SIB033), SRR10571721 (SIB039), SRR10571753 (SIB048)  Non-obese, non-asthma, non-smokers:  SRR10571732 (SIB028), SRR10571730 (SIB030), SRR10571724 (SIB036) | Xiong et al. 2020 [[4]](https://paperpile.com/c/Y03cM1/Dy9O) |
| Huang et al. 2019 [[7]](https://paperpile.com/c/Y03cM1/Cm28) | NCBI BioProject PRJNA484025 | SRR7788525+SRR7638291 (S01),  SRR7788526+SRR7638290 (S02),  SRR7788523+SRR7638293 (S03),  SRR7788524+SRR7638289 (S04),  SRR7788529+SRR7638295 (S05),  SRR7788530+SRR7638294 (S06),  SRR7788527+SRR7638297 (S07),  SRR7788528+SRR7638296 (S08),  SRR7788532+SRR7638288 (S09),  SRR7788533+SRR7638287 (S10),  SRR7788515+SRR7638280 (S11),  SRR7788516+SRR7638279 (S12),  SSRR7788513+SRR7638278 (S13),  SSRR7788514+SRR7638277 (S14),  SRR7788519+SRR7638284 (S15),  SRR7788520+SRR7638283 (S16),  SRR7788517+SRR7638282 (S17),  SRR7788518+SRR7638281 (S18),  SRR7788521+SRR7638286 (S19),  SRR7788522+SRR7638285 (S21),  SRR7788531+SRR7638292 (S22)  Negative control:  SRR7796663 (NC1) |  |
| Ren et al 2018 [[8]](https://paperpile.com/c/Y03cM1/bZke) | NCBI BioProject PRJNA390194 | SRR5677656 (ANB21),  SRR5677657 (ANB22),  SRR5677654 (ANB23),  SRR5677655 (ANB24),  SRR5677660 (ANB26),  SRR5677661 (ANB30),  SRR5677658 (ANB32),  SRR5677659 (ANB33),  SRR5677652 (ANB40) |  |

\*NCBI BioProject accession numbers begin with SRR (<https://www.ncbi.nlm.nih.gov/bioproject/>) and NGDC BioProject accession numbers begin with CRR (<https://bigd.big.ac.cn/bioproject/>)

Add this citation to the table - Gardinassi et al. 2020 [[13]](https://paperpile.com/c/Y03cM1/ycev) for NGDC BioProject PRJCA002273

ftp://[download.big.ac.cn/gsa-human/HRA000143](http://download.big.ac.cn/gsa-human/HRA000143)

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