gatk_50_files_metadata_fields

50 xml files from vcf from:

- -13 experiments (13 submissions)
- -10 studies
- -46 biosamples

-FILES (50) RUN PRIMARY_ID e.g "SRR10903401" (SRR) total_spots e.g "476632" "676694" (50) total_bases e.g "143565674" "203832203" (50) Statistics read_counts (39) e.g "476632" "676694" "28282964" "5246584" () read_ave e.g "150.55" (39) read_stdev e.g "0.74", "53.60", "12.44" (39) total_bases e.g "143565674", "203832203" "8031043214" "8325534" size e.g "72426963" "104687344" "2743427127" "2158046" ✓ EXPERIMENT_REF ✓ accession (EXP PRIMARY ID) "SRX7571571" ✓ Member PRIMARY ID e.g "SRS6007144" **▼** EXTERNALID "SAMN13872787" ✓ attributes accession (same as PRIMARY ID) e.g "SRR10903401" (SRR) alias e.g "wuhan2_1.fg.gz", "nCov1.bam" (run filename) is public/cluster name ("true", "public") √ total_spots e.g "476632" "676694" (same as read counts) ✓ nreads ("2", "variable") nspots (same as read counts, same as total_spots)

-EXPERIMENT (13)

- SAMPLE
- **✓** SAMPLE ATTRIBUTES
 - ✓ sample type ("genomic RNA")

	City ("Wuhan", "Shanghai", "Beijing", "Madison", "Pereira", "seattle", "Seattle", "San
	Diego", "Melbourne" , "Salt Lake City") * Map to GAZ ontology
\checkmark	Contact
	✓ Adress
	✓ Name
	-STUDY (10)
•	STUDY
	IDENTIFIERS
	PRIMARY_ID (=study accession) e.g "SRP242226"(all are SRP
	EXTERNAL_ID (=study alias) e.g "PRJNA601736" (all are PRJ)
\checkmark	STUDY_TYPE e.g "Other" (all 10 studies are of type "Other")
\checkmark	CENTER_PROJECT_NAME (Not all have this, the ones have this info "Wuhan seafood
	market pneumonia virus", "Severe acute respiratory syndrome coronavirus 2")
	-(-STUDY -INFO) Or maybe to HOST/INDIVIDUAL Endpoint?
	STUDY_TITLE e.g "Metatranscriptomics of two pneumonia cases"
	STUDY_ABSTRACT e.g "Discovery and characterization of a novel human coronavirus from
	two individual pneumonia cases in 2019 Wuhan outbreak" (at the end)
•	SAMPLE
	SAMPLE_ATTRIBUTES
	link_addit_analys (article)("https://wwwnc.cdc.gov/eid/article/26/6/20-0516_article")
	-BIOSAMPLE (45)
•	SAMPLE
	IDENTIFIERS
	PRIMARY_ID (=sample accession) e.g "SRS6007144" (all SRS)
	EXTERNAL_ID e. g "SAMN13872787" (all SAMN)
	✓ alias (from papers maybe?) e.g "WHU02" , "UT 00005" , "nCov6", "Human BALF"
	SAMPLE_NAME
	TAXON_ID e.g "9606" ("9606", "433733", "2697049")
	SCIENTIFIC_NAME e.g "Homo sapiens" *(Is this an error? they are citing host but
	shouldn't it be the sequence source, i.e the virus)
	("Homo sapiens", "human lung metagenome", "Severe acute respiratory syndrome
	coronavirus 2", "Wuhan seafood market pneumonia virus")

SAMPLE_LINKS:SAMPLE_LINK:XREF_LINK
✓ DB (NULL, "bioproject")
✓ ID e.g "601736" (what does this mean?)
✓ LABEL (=study alias) e.g "PRJNA601736" (all PRJ)
SAMPLE_ATTRIBUTES
✓ BioSampleModel e.g Human
✓ isolate e.g P02 (34/50 xml)
✓ biomaterial_provider e.g "State Key Laboratory of Virology" (only 1 value)
✓ ref_biomaterial ("BEI Resources catalog NR 52281 (lot 70033135)")
(list all 31 in file SAMPLE_ATTRIBUTES and sample.attributes.pdf)
tissue/ isolation_source (biosample type) e.g "Bronchoalveolar lavage fluid",
"oropharyngeal swab", "passage" > Map to UBERON ontology
culture_collection/ Laboratory Host ("FDA:FDAARGOS_983", "Vero E6 cells
(CRL-1586)") > Map to CL ontology
passage_history e.g "Original (not passaged)"
ollection_date (different formats) e.g "02-Jan-2020", "2020-02-14" , "2020", "2020-03"
-HOST/INDIVIDUAL SAMPLE SAMPLE_ATTRIBUTES host (Species) e.g "Homo sapiens" age/host_age e.g "21" sex/host_sex "female", "male" geo_loc_name/ country/ at_lon (different formats) e.g "USA:WI:Madison"/ "USA: CA, San Diego County"/ "30.52 N 114.31 E" > harmonise, map to GAZ ontology host_disease ("nCoV pneumonia", "COVID-19", "severe acute respiratory syndrome") host_disease_outcome ("Survived") √ host_disease_stage ("Acute")
VIRUSSAMPLESAMPLE_ATTRIBITES