## metadata fields from 50 illumina files for virus beacon schema v1

	–FILE (metadata from fastq not vcf)
•	RUN
	PRIMARY_ID e.g "SRR10903401" (SRR)
	total_spots e.g "476632" "676694" (50)
	total_bases e.g "143565674" "203832203" (50)
	Statistics
	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"
	EVDEDIMENT
	-EXPERIMENT SAMPLE
•	EXPERIMENT
	IDENTIFIERS
	PRIMARY_ID eg. "SRA1041081" (13 experiments)
	TITLE (string e.g "Total RNA sequencing of BALF (human reads removed)")
	DESIGN
	LIBRARY_DESCRIPTOR
	LIBRARY_STRATEGY ("RNA-Seq", "WGS", "AMPLICON", "Targeted-Capture")
	LIBRARY_SOURCE ("METATRANSCRIPTOMIC", "METAGENOMIC", "GENOMIC",
	"VIRAL RNA")
	LIBRARY_SELECTION ( "RANDOM", "RT-PCR", "RANDOM PCR", "unspecified",
	"PCR", "cDNA")
	LIBRARY_LAYOUT ("PAIRED" "SINGLE")
	PLATFORM
	ILLUMINA INSTRUMENT MODEL ("Illumina MiSeq", "Illumina MiniSeq" , "Illumina HiSeq
	2500" ,"NextSeq 500" , "NextSeq 550", "Illumina iSeq 100" )
	DIOCAMDI E
	-BIOSAMPLE SAMPLE
	IDENTIFIERS
	PRIMARY ID (=sample accession) e.g "SRS6007144" (all SRS)
	Garripio albesteriti org   Greeker

EXTERNAL_ID e. g "SAMN13872787" (all SAMN)
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_ATTRIBUTES
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")  SAMPLE (INFO?)  SAMPLE_ATTRIBUTES
link_addit_analys (article)("https://wwwnc.cdc.gov/eid/article/26/6/20-0516_article")
<ul> <li>VIRUS</li> <li>SAMPLE</li> <li>SAMPLE_ATTRIBITES</li> <li>strain (22) e.g "2019-nCoV/USA-WI1/2020"</li> </ul>
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