

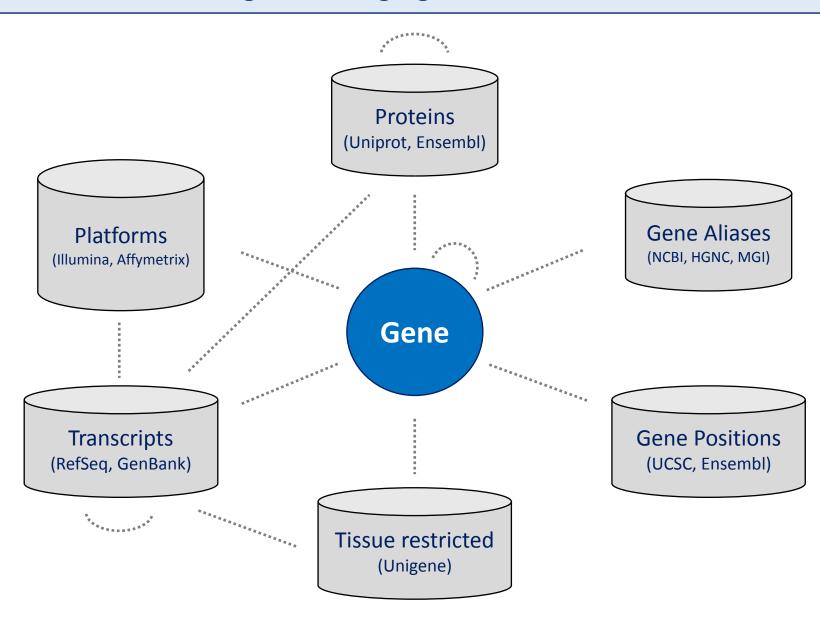
# **EpiMed Open Course – Session 3**

# Update a list of gene symbols with EpiMed Database

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## Navigate through gene-related data







### Navigate through gene-related data

### Example: testis-specific gene NUTM1

### **Aliases of NUTM1**

AF482429

C15orf55

CCDS32190

CCDS61584

CCDS61585

DKFZp434O192

ENSG00000184507

FAM22H

HGNC:29919

NM 175741

**NUT** 

NUTM1

OTTHUMG00000172348

Q86Y26

uc001zif.4

Hs.525769

#### Methylation data

GPL13534 Illumina HumanMethylation450 BeadChip

Gene symbols	Probesets
C15orf55, NM_175741	cg01444726, cg12753858, cg12939464, cg18768283, cg24620418, cg26471610

#### Expression array data

GPL570 Affymetrix Human Genome U133 Plus 2.0 Array

Gene symbols	Probesets
NUTM1	1564603_at, 231338_at

#### RNA-seq data

Assembly GRCh38 - hg38

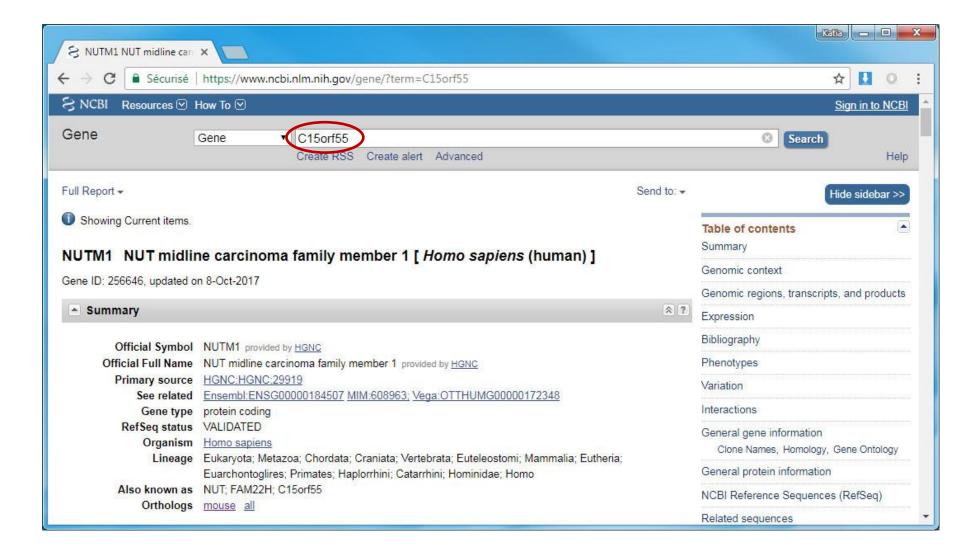
ID UCSC	chrom	strand	tx_start	tx_end	cds_start	cds_end	exon_count
uc001zif.4	chr15	+	34343314	34357737	34346019	34357491	8
uc010ucc.4	chr15	+	34343314	34357728	34343696	34357491	8
uc010ucd.4	chr15	+	34343409	34357737	34343632	34357491	7
uc059hhq.1	chr15	+	34345864	34357732	34346019	34357491	7





### How to update a list of gene symbols?

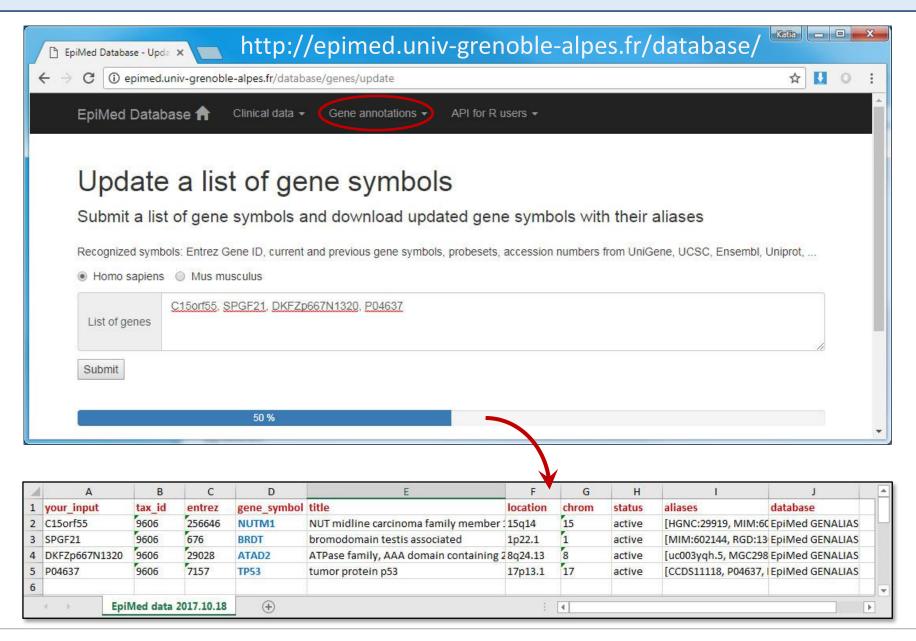
#### Manual search on NCBI







### Update a list of gene symbols with EpiMed Database







## Update a list of gene symbols with EpiMed Database

#### Demonstration

http://epimed.univ-grenoble-alpes.fr/database/





### Quiz

## Quiz 1 - EpiMed Database: Update a list of genes

FILL OUT FORM

https://docs.google.com/forms/d/e/1FAIpQLSdtkCynPExJo3oFhmtnE-9Iwgx3SBI8zCXCREWshm6saKV1tQ/viewform?vc=0&c=0&w=1

Link to EpiMed Database

http://epimed.univ-grenoble-alpes.fr/database/

Questions? Please, send an e-mail to

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