

Graphical user interface, application, table

Description automatically generated with medium confidence

**Example 1:**

can you give the query for all script when gen name is 'interleukin 9 receptor' and tissue is 'HEART'

SELECT h.\*

FROM "public".histopathology\_exp\_report h

JOIN "public".all\_gene\_fc g

ON h.experiment = g.experiment

WHERE g.gene\_name = 'interleukin 9 receptor'

AND h.tissue\_name = 'HEART';

there is no column "experiment" in the table "public".all\_gene\_fc g

SELECT h.\*

FROM "public".histopathology\_exp\_report h

JOIN "public".all\_gene\_fc g ON h.histopathology = g.gene

WHERE g.gene\_name = 'interleukin 9 receptor'

AND h.tissue\_name = 'HEART';

**Example 2:**

Can you give me the experiment list of histopathology is 'HEPATOCYTE, MIDZONAL, NECROSIS, ONCOCYTIC' tissue is liver

SELECT DISTINCT experiment, experiment\_name

FROM "public".histopathology\_exp\_report

WHERE histopathology\_name = 'HEPATOCYTE, MIDZONAL, NECROSIS, ONCOCYTIC'

AND tissue\_name = 'LIVER';

**Correct!**

**Example 3:**

Can you give me the experiment list of histopathology is 'HEPATOCYTE, MIDZONAL, NECROSIS, ONCOCYTIC' tissue is liver and gene 'ESTs (1372749\_at)'

SELECT DISTINCT h.experiment, h.experiment\_name

FROM "public".histopathology\_exp\_report h

JOIN "public".all\_gene\_fc g ON h.histopathology = g.gene

WHERE h.histopathology\_name = 'HEPATOCYTE, MIDZONAL, NECROSIS, ONCOCYTIC'

AND h.tissue\_name = 'LIVER'

AND g.gene\_name = 'ESTs (1372749\_at)';

Are you sure you want join those two table by h.histopathology = g.gene??

-- First, find experiments with the specified histopathology and tissue:

SELECT DISTINCT experiment, experiment\_name

FROM "public".histopathology\_exp\_report

WHERE histopathology\_name = 'HEPATOCYTE, MIDZONAL, NECROSIS, ONCOCYTIC'

AND tissue\_name = 'LIVER';

-- Then, find experiments with the specified gene:

SELECT DISTINCT experiment, experiment\_name

FROM "public".all\_gene\_fc

WHERE gene\_name = 'ESTs (1372749\_at)';

I found 'all\_transcript\_report' report has gene and gent\_name also has tissue which is integer. Can you write query : Can you give me the experiment list of histopathology is 'HEPATOCYTE, MIDZONAL, NECROSIS, ONCOCYTIC' tissue is liver and gene 'ESTs (1372749\_at)'?

SELECT DISTINCT h.experiment, h.experiment\_name

FROM "public".histopathology\_exp\_report h

JOIN "public".all\_transcript\_report t ON h.experiment = t.experiment

WHERE h.histopathology\_name = 'HEPATOCYTE, MIDZONAL, NECROSIS, ONCOCYTIC'

AND h.tissue\_name = 'LIVER'

AND t.gene\_name = 'ESTs (1372749\_at)';

**Correct!**