

HOME FUN1 FUN2 FUN3




list	10
name	5
name	2

ref which name

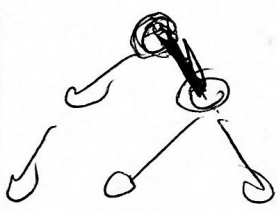
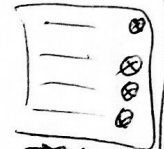
+7

1 2 3 -



CD	ADD
----	-----

CD 1
CD 2
34
all.



list

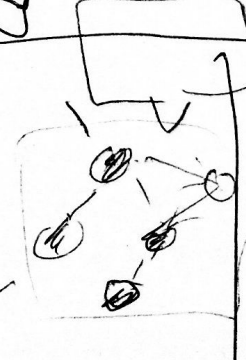
M1 M3 #

M2 M3 #

...


name marker

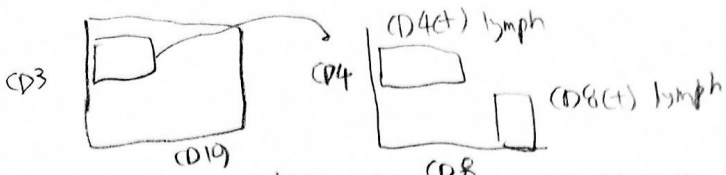
ref



Start B

ends





one element →
Example.

```

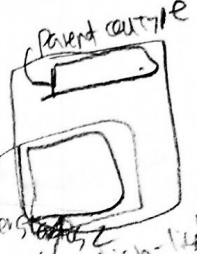
{
  "unique_ID": "ADB4568",
  "parent_celltype": "CD3(+) T-lymphocytes",
  "daughter_celltype": "CD4(+) T-lymphocytes",
  "Markers_Comb": "[CD19, CD3]",
  "image_dir": "ADB4568_1.jpg"
}

```

Excel

read "ID"

Folder name for one paper



Marker status 1
- 1 0 1
Marker status 2
- 1 0 1
high-light grade

```

{
  "Citation": {
    "first author": "...",
    "title": "...",
    "journal": "...",
    "year": "...",
    "PMID": "...",
    "PMID": "...",
    "PMID": "}"
  }
}

```

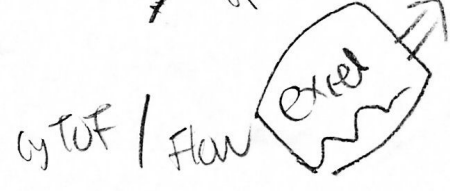
"last author"

"complete authorship"

* optional link

Name of daughter cell

separate folder for one paper



```

{
  "data_availability": "YES",
  "tissue_source": "BMC / whole blood / etc ..."
}

```

ID for reference

Collection of these ...



- unique (parent + daughter) find all names
Manually group them and build dictionary

list of Node →

- Assign each cell type to a node
- Search thru all element, Create an edge connecting two cell types (parent → daughter)

list of edges →

- Create image_dir according to the edge and for each edge add marker/combo
- For all unique citation, mark which nodes/edges are related

list_of_ren_types

```
{  
  "representative_name":  
  "Other_Names":  
  "Node_Number":  
  "Citation"
```

list_of_edges

```
{  
  "Name": "e1"  
  "Node_Connecting": "N2, N3"  
  "Markers_Associated": "CD19, CD3" (CD24, CD29)  
  "Citation"  
  "Picture": "ID"
```

list_of_markers

```
{  
  "name": "CD3"  
  "edge_associated"
```

CyTOF

Reading-list from last year

Scottish / Science Paper
CyTOF paper