



@ Biocomputing Unit - INB - ELIXIR

HOME

SUBMIT

NETWORK

QUERY

API

HELP

ABOUT US

Search by **EMDB** code, **PDB** ID or **Uniprot** accession

(A)

UPLOAD YOUR ANNOTATIONS

Browse... No file selected.

Submit

Example (HRAS)

Example (Human APC/C-Cdh1-Emi1)

3DBIONOTES web-server was developed and is maintained at the [Biocomputing Unit - CNB](#) by Joan Segura Mora. [Citing the web-server ?](#)

In this example we will show how to submit your own annotations. In any type of 3DBIONOTES query custom annotations including variants or continuous data can be uploaded using the file filed in the web form (A). All viewers and analysis tools will also process the attached data.

The JSON format file is used to submit annotation to 3DBIONOTES. The file contains an array of annotations

```
[ann_1, ann_2, ... , ann_n]
```

Where a particular annotation should contain next keys

```
ann_1 = {
```

```
  "track_name": "track_name_1",
```

```
  "acc": "P01112", ← The annotations are located in any protein with UniProt accession P01112
```

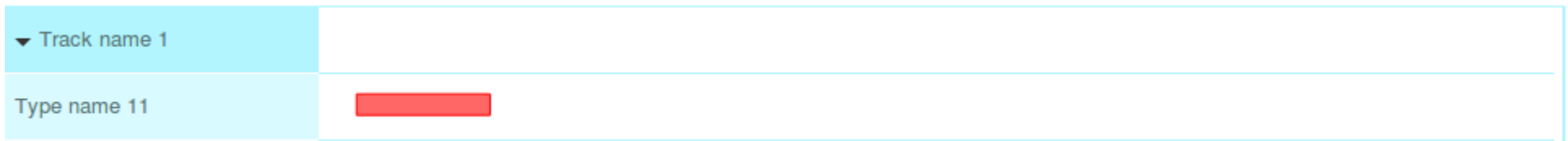
```
  "data": [
```

```
    {"begin": 5, "end": 25, "type": "type_name_11", "color": "red", "description": "My description text"}
```

```
  ] ← Array data
```



```
}
```

If [ann\_1] is uploaded when requesting the information for PDB entry 4G3X the protein annotation panel will display the track



```
[{
  "track_name":"track_name_1",
  "acc":"P01112", ← The annotations are located in any protein with UniProt accession P01112
  "data":[
    {"begin":5,"end":25,"type":"type_name_11","color":"red","description":"My description text"},
    {"begin":27,"end":40,"type":"type_name_12","color":"blue","description":"My description text"}
  ]
}]
```

If this json is uploaded when requesting the information for PDB entry 4G3X the protein annotation panel will display the track




▼ Track name 1	
Type name 11	
Type name 12	

```

[
  {
    "track_name": "track_name_1",
    "acc": "P01112", ← The annotations are located in any protein with UniProt accession P01112
    "data": [
      { "begin": 5, "end": 25, "type": "type_name_11", "color": "red", "description": "My description text" },
      { "begin": 27, "end": 40, "type": "type_name_12", "color": "blue", "description": "My description text" }
    ]
  },
  {
    "track_name": "track_name_2",
    "chain": "A", ← The annotations are located in PDB chain A
    "data": [
      { "begin": 60, "end": 65, "type": "type_name_21", "color": "green", "description": "My description text" }
    ]
  }
]

```

If this json is uploaded when requesting the information for PDB entry 4G3X the protein annotation panel will display the track

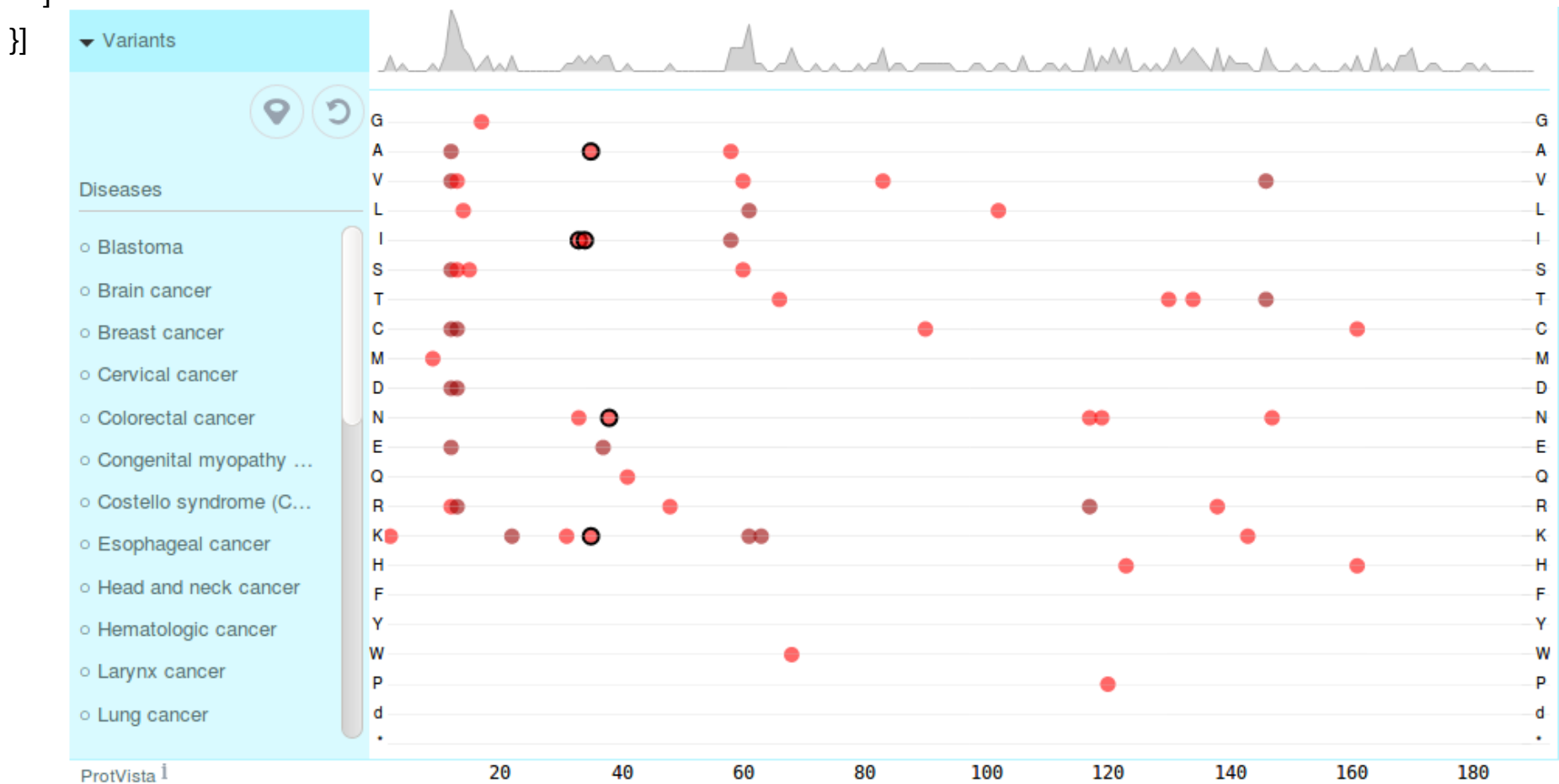
▼ Track name 2	
Type name 21	
▼ Track name 1	
Type name 11	
Type name 12	

```

[
  "track_name":"track_variants",
  "acc":"P01112",
  "visualization_type":"variants", ← Indicates that annotations are genomic variants
  "data":[
    {"begin":33,"variation":"I","wildtype":"D","disease":"my disease"},
    {"begin":34,"variation":"I","wildtype":"P","disease":"my disease"},
    {"begin":35,"variation":"A","wildtype":"T","disease":"my disease"},
    {"begin":35,"variation":"K","wildtype":"T","disease":"my disease"},
    {"begin":38,"variation":"N","wildtype":"D","disease":"my disease"}
  ]
]

```

If this json is uploaded when requesting the information for PDB entry 4G3X the protein annotation variant panel will display the submitted variants and highlight them with a black border (see next slide)



▼ Variants



Diseases

- Hematologic cancer
- Larynx cancer
- Lung cancer
- Melanoma
- My disease
- Neuroendocrine tumor
- Oral cavity cancer
- Pancreatic cancer
- Pharynx cancer
- Prostate cancer
- Sarcoma
- Schimmelpenning-Fe...



ProtVista <sup>1</sup> 20 40 60 80 100 120 140 160 180

Continuous data can be also submitted, next slide shows how this data is displayed when submitted with the PDB entry 4G3X

```
{  
  "track_name":"continuous_track_1",  
  "visualization_type":"continuous", ← Indicates that data must be displayed in a continuous viewer  
  "chain":"A",  
  "data":[  
    {"begin":10,"value":0.567099895929477},  
    {"begin":11,"value":2.20246376282134},  
    {"begin":12,"value":0.214324032613771},  
    {"begin":13,"value":4.46020393560932},  
    {"begin":14,"value":1.61429623438872},  
    {"begin":15,"value":3.68651815100741},  
    {"begin":16,"value":0.928219087174238},  
    {"begin":17,"value":2.02385708943023} ]  
}
```

CONTINUOUS\_TRACK\_1

