

paplot

Automatic generation of cancer genome interactive report via paplot.

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What is INTERACTIVE ?

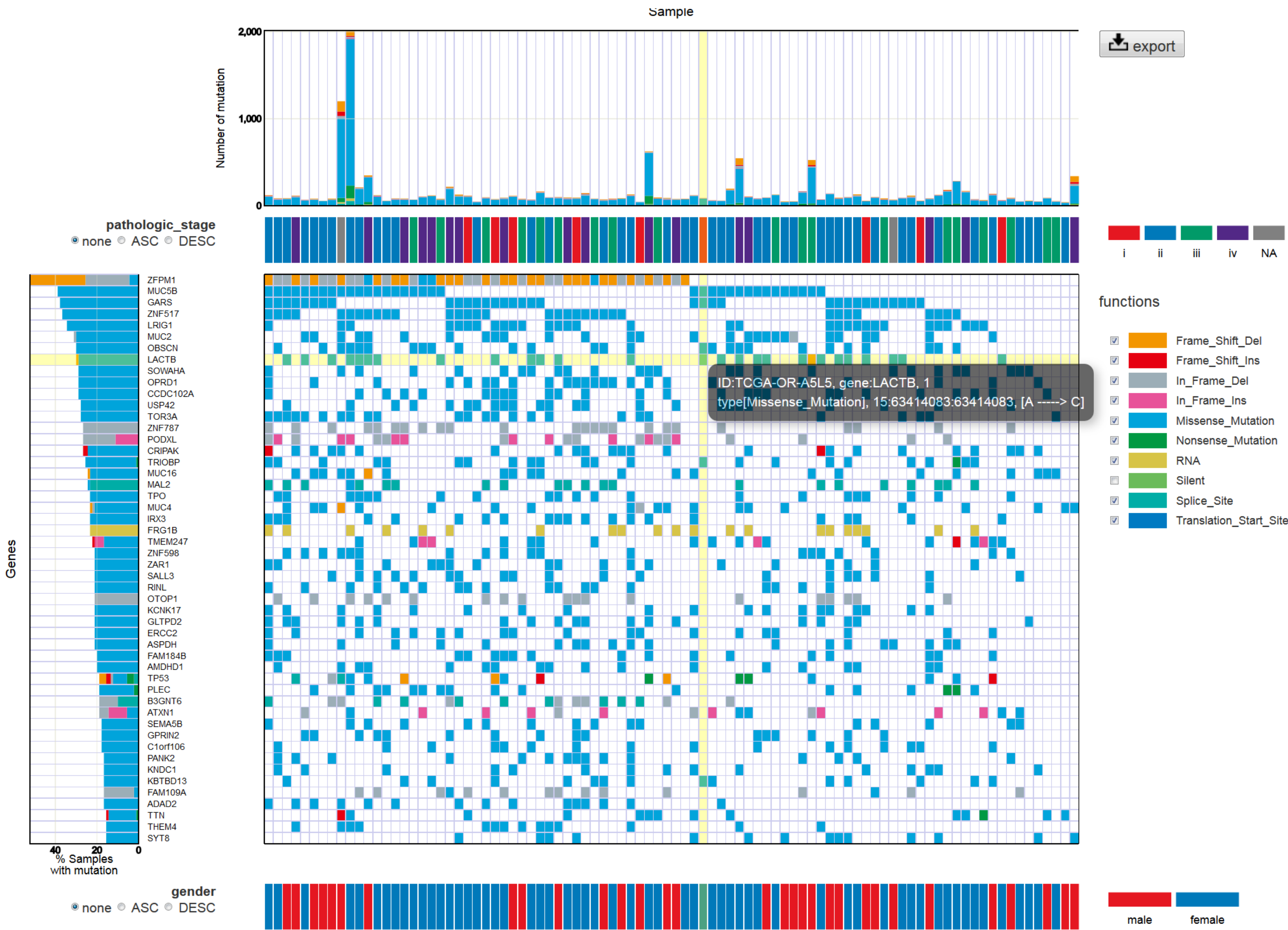
Visualization and interpretation of genomic analysis results often demand us further laborious efforts such as formatting and organizing the result with additional scripting.

Here, we introduce Post Analysis PLOT (**paplot**).

paplot outputs files described by javascript (use D3.js, <https://d3js.org/>) and HTML.

These interactive figures allow users to enjoy filtering, focusing and sorting the visualized contents as their necessity, without re-executing drawing tools with different parameters.

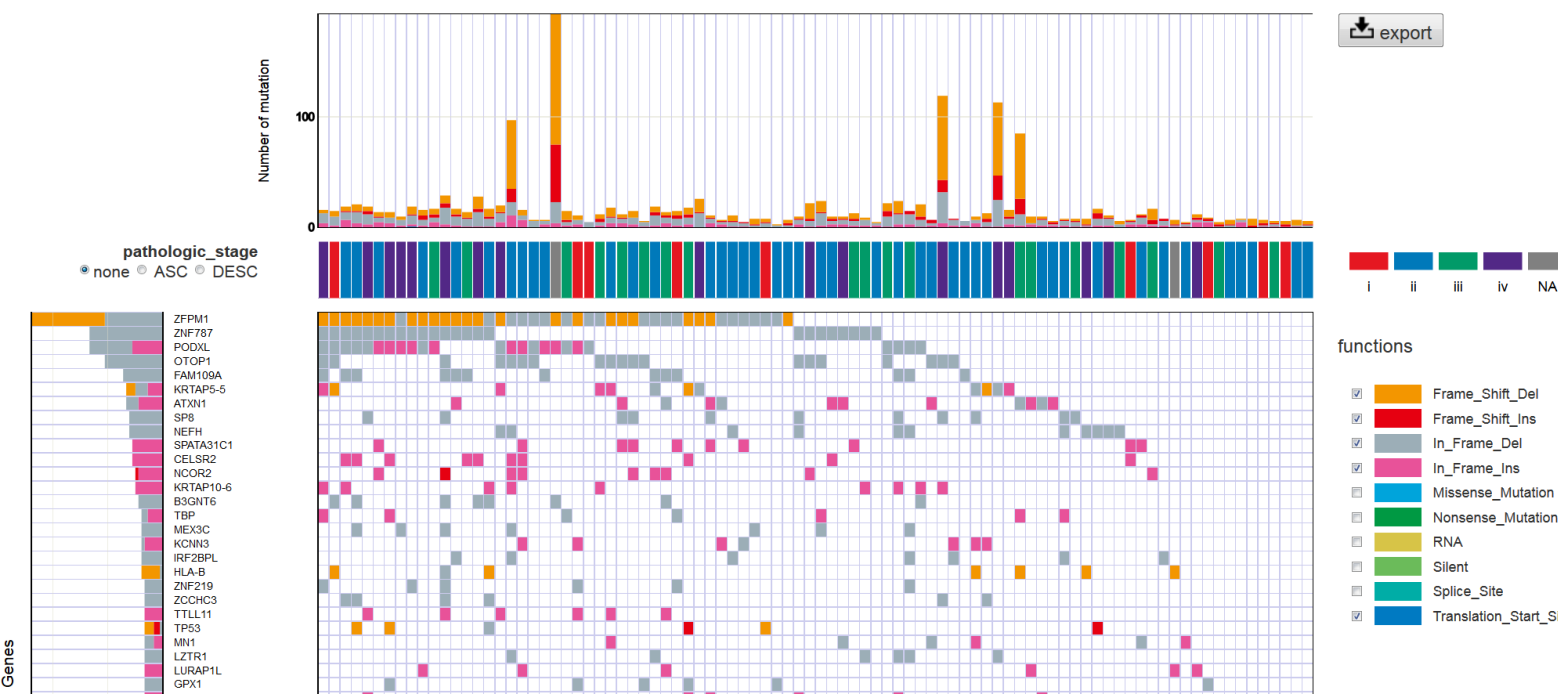
Furthermore, by moving the mouse, the user can efficiently obtain various information.



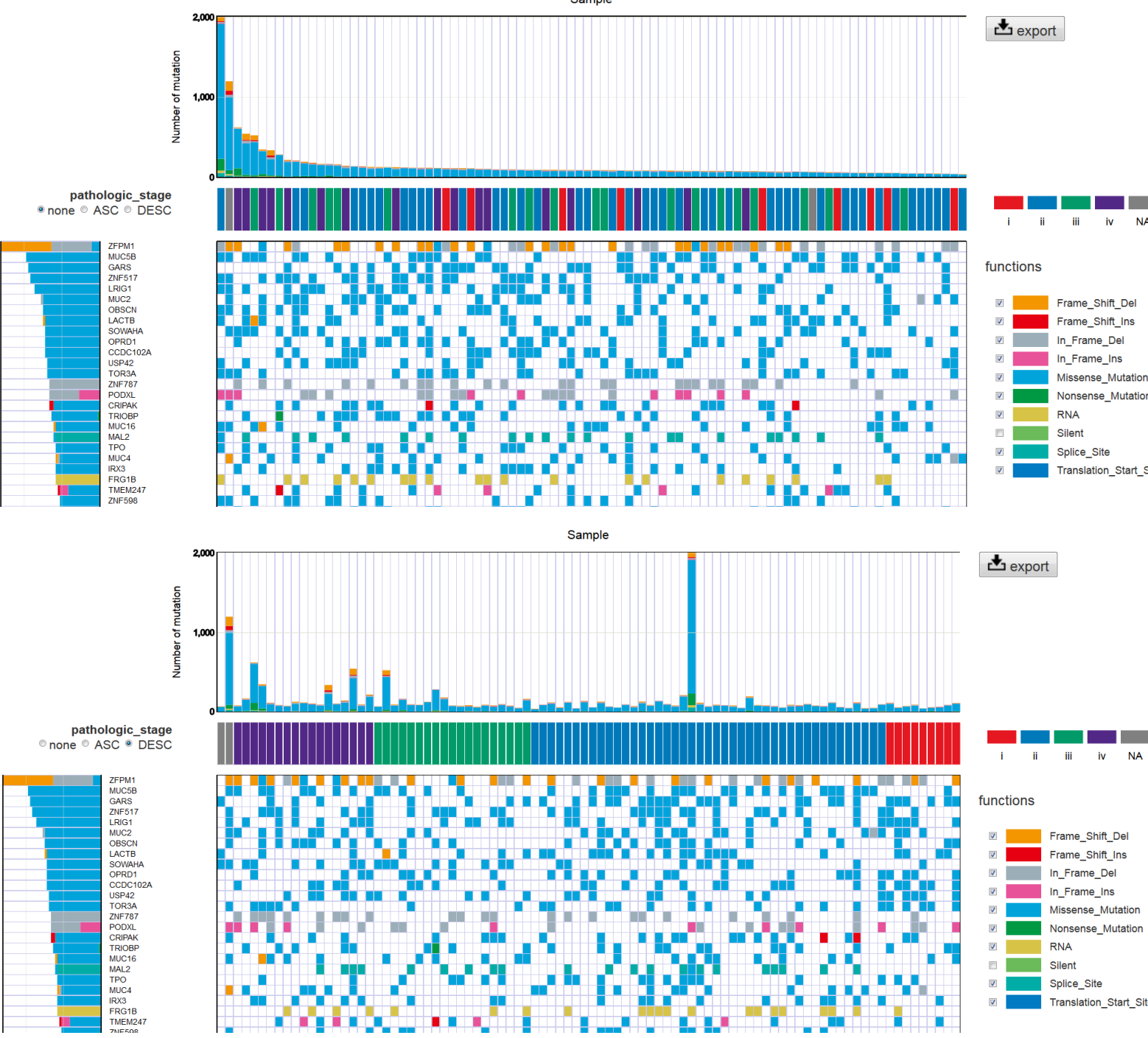
All Charts are available to save image (SVG, PNG).

This demo data is TCGA-ACC, downloaded from <http://gdac.broadinstitute.org/>

extract mutaion type



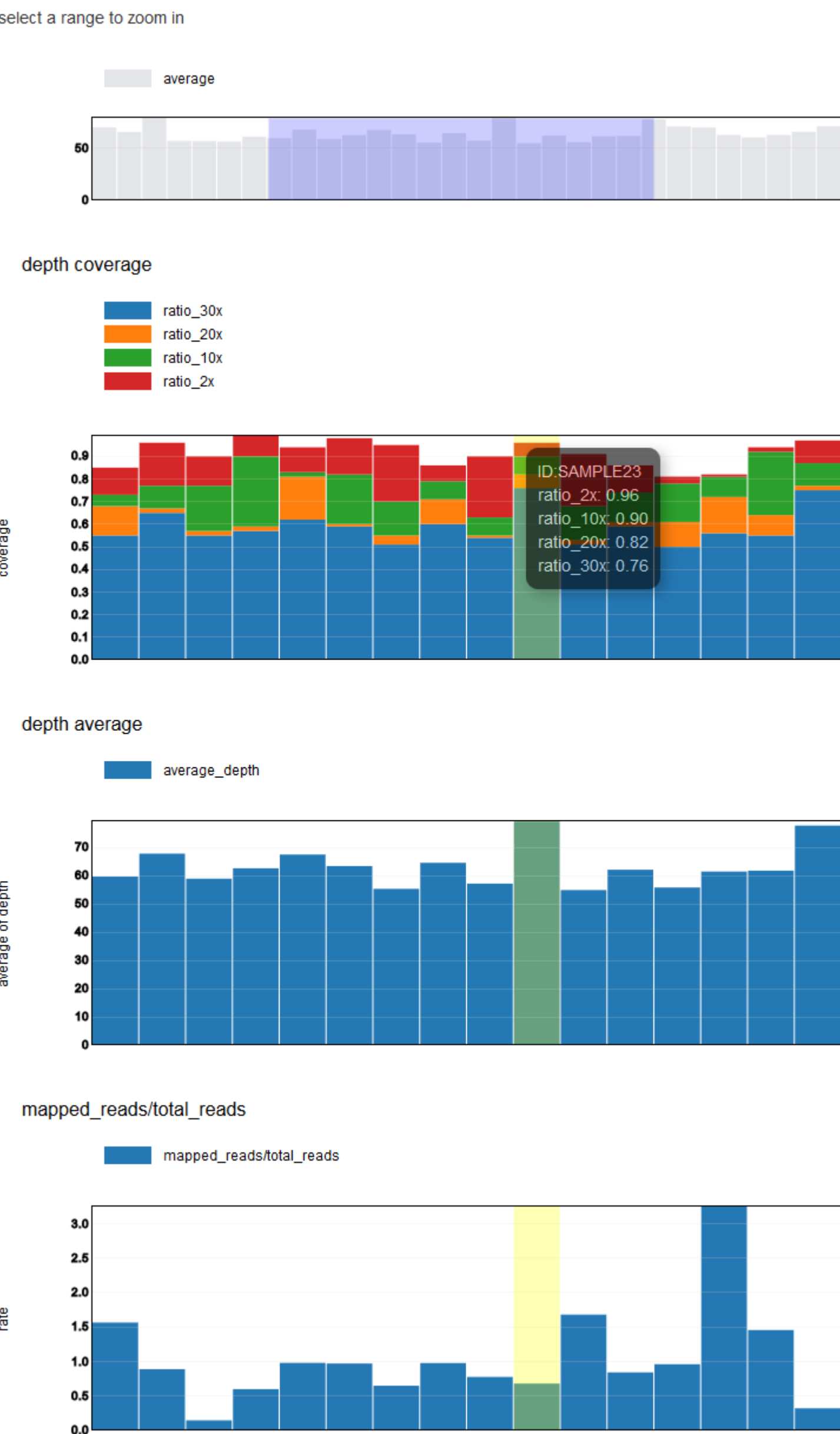
change sort order



Various plots

QC (Quality Control) graphs

Plots QC values each sample's bam file.
Items for plot can be customized.



CA (Chromosomal Aberration) graphs

With Circular plots, view chromosomal aberrations for Structural Variation (SV) etc.
Each circular plots expands with click.
Expanded plot is movable and shows pop-up window for more information with on mouse.

With bar plot, view of the entire distribution.



How to use

paplot is open source. Please try freely. 

1. First, install paplot in your machine.   

```
> git clone https://github.com/Genomon-Project/paplot.git
> cd paplot
> python setup.py build install
```

2. Next, prepare configure file for your data format.
3. Then, you just type:

```
> pa_plot qc {input_files} {output_dir} {name}
--config_file {config_file}
```

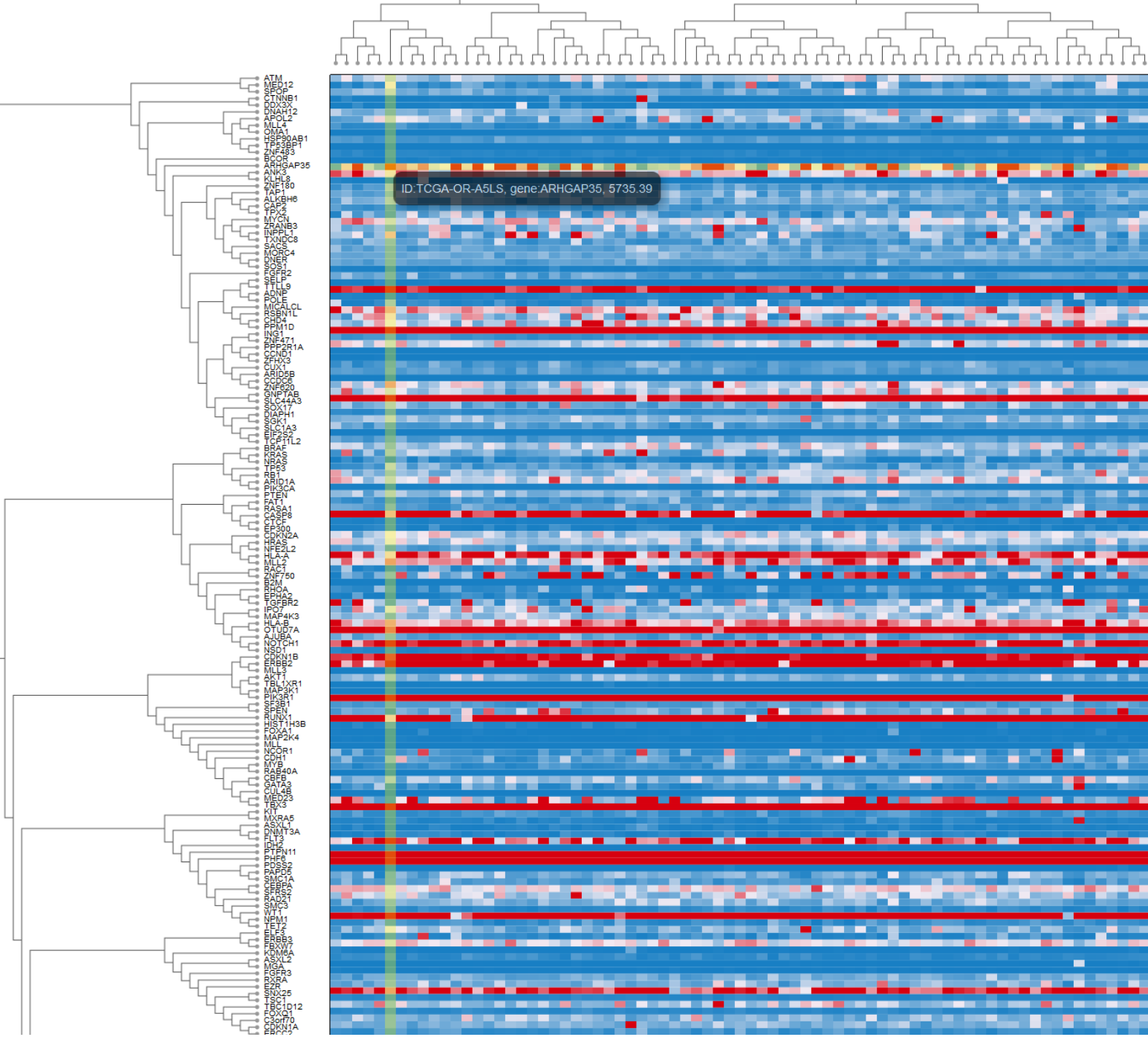
4. Open 'index.html' in your browser.    

```
{output_dir}
├── {name}
│   ├── graph_ca.html
│   ├── graph_mut.html
│   └── graph_qc.html
├── js
├── layout
├── lib
├── style
└── index.html
```

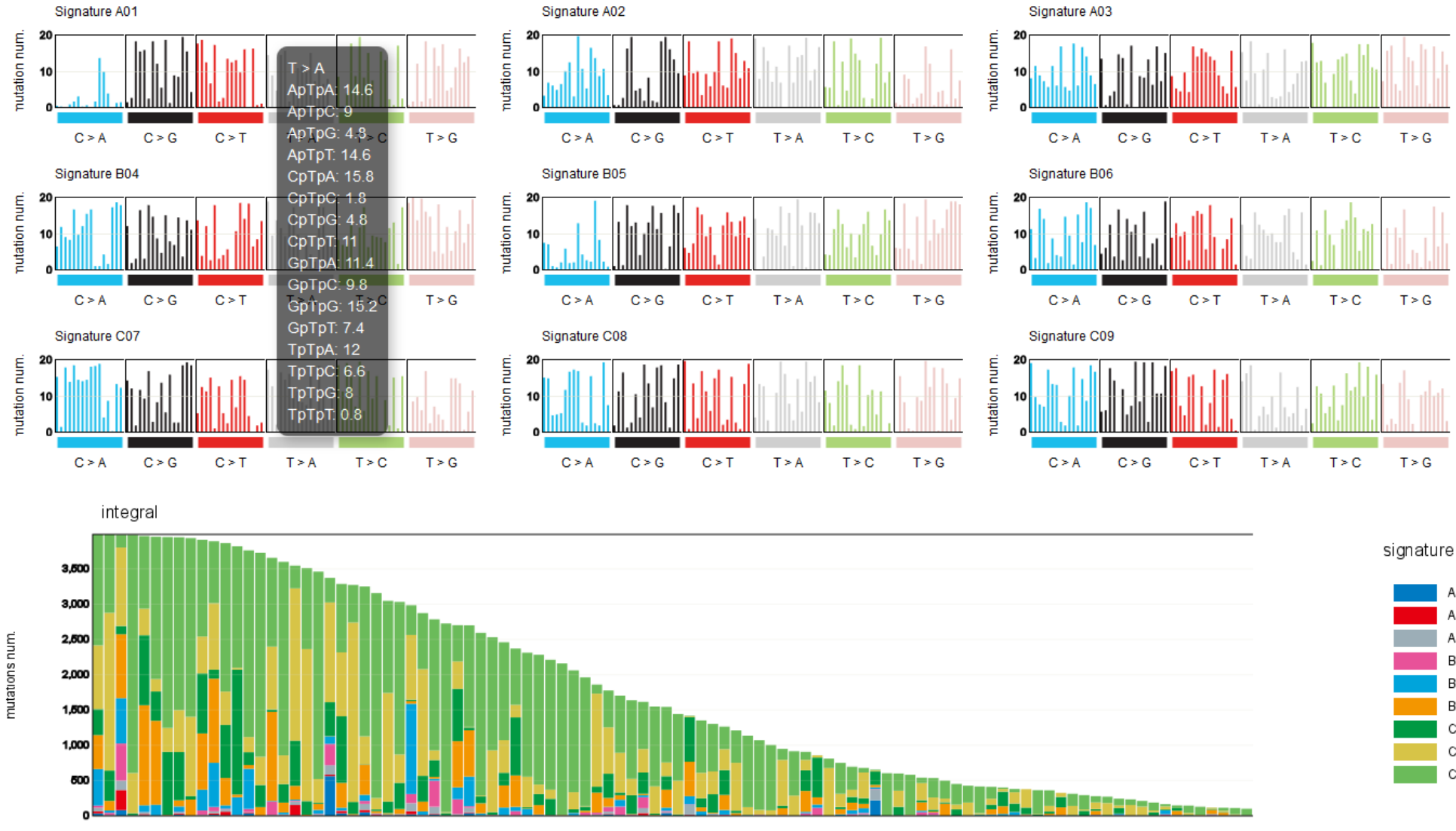
Open your browser!!

Next schedule

Genomic signature


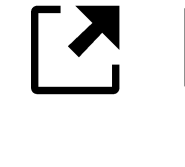


RNA expression



Coming out soon!!

Information

paplot is published on github
 <https://github.com/Genomon-Project/paplot>
Demo
 <http://genomon-project.github.io/paplot>

Please contact: Genomon developer team
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COI Disclosure Information
Lead Presenter: Ai Okada
Responsible Researcher: Yuichi Shiraishi
We have no financial relationships to disclose.

