

report\_executed

June 28, 2021

## 1 ADAP-ML Report

T-test and volcano plot

```
[1]: import adapml_data
import adapml_classification
import adapml_chemometrics
import adapml_statistics
import numpy as np
import loadTestData as load_data
import sklearn.preprocessing as pre
from sklearn.cross_decomposition import PLSRegression as PLS
from matplotlib import pyplot as plt
import os

reldir = os.getcwd()
path_to_data = os.path.join(reldir, 'data', 'SCLC_study_output_filtered_2.csv')
path_to_resp = os.path.join(reldir, 'data', 'SCLC_study_responses_2.csv')

data = adapml_data.DataImport(path_to_data)
response1D = adapml_data.DataImport.getResponse(path_to_resp)
response2D = adapml_data.DataImport.getDummyResponse(response1D)

variables = data.getVariableNames()
samples = data.getSampleNames()

t_test = adapml_statistics.Statistics(data.data, 'anova', response1D)
t_test.plot_logp_values(variables)
t_test.plot_volcano_t(variables)
```

