

At BioCreative-CHEMDNER Challenge

FREE ANNOTATION SOFTWARE

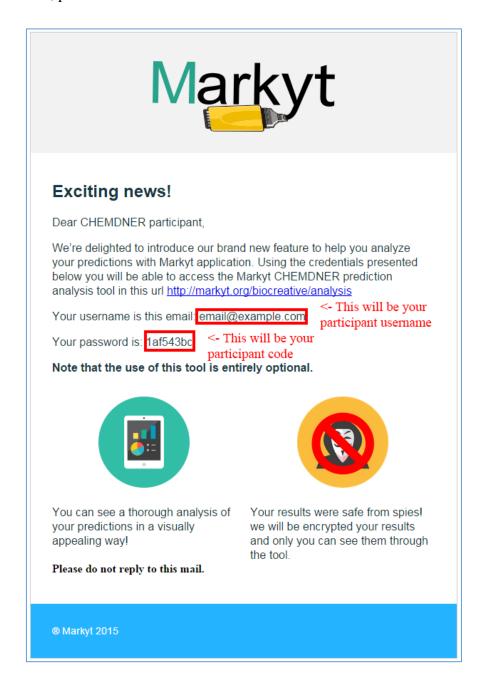
NEXT GENERATION COMPUTER SYSTEMS GROUP (SING)
DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY OF VIGO

PREDICTION ANALYSIS TOOL

http://www.markyt.org/biocreative/analysis

1. Markyt credentials

When you register as participant of the challenge (<u>register for track 2</u> of BioCreative V), you will receive the below email with your credentials to use Markyt. If you do not receive this email, please contact us.



2. .TSV file structure

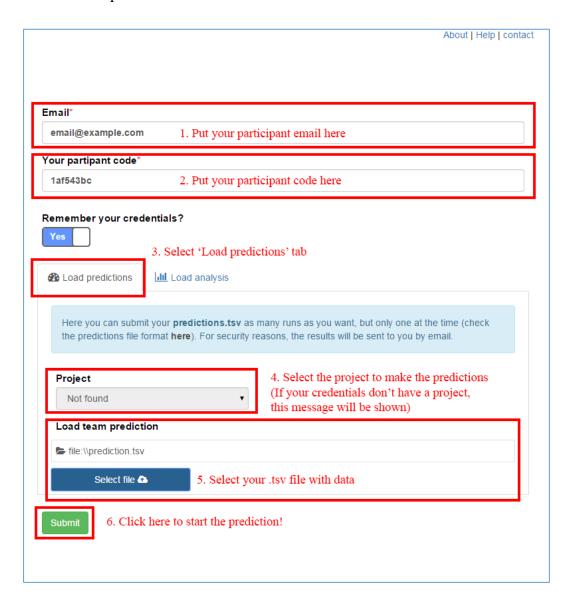
The .tsv file with predictions to be uploaded for evaluation should follow the structure specified by the competition, i.e.:

- Patent identifier.
- ❖ Offset string consisting in a triplet joined by the ':' character. You have to provide the text type (T: Title, A:Abstract), the start offset and the end offset.
- ❖ The rank of the entity returned for this document.
- ❖ A confidence score.
- **.** The string of the entity mention.

```
CN103371975A A:271:274 1
                              0.99 RGD
                                         Arginine
CN103371975A A:276:306
                        2
                              0.98989
US20090312385 A:100:112
                        1
                              0.99 CB2
                         2
US20090312385 T:0:11
                              0.98989
                                         Cannabinoid
W02014144455A1
                   A:616:621
                              1
                                    0.99 CARM1
WO2014144455A1
                   T:53:58
                                    0.98989
                              2
                                               carm1
```

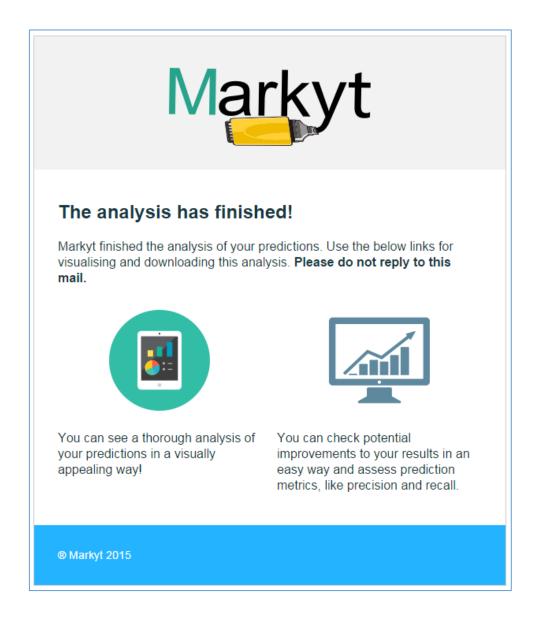
3. Load predictions

You may load your predictions at http://markyt.org/biocreative/analysis. Follow the instructions in the picture below:



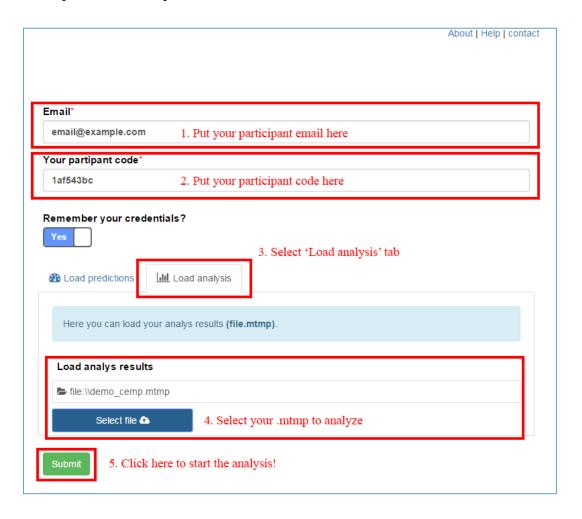
4. MARKYT results

When the evaluation is finished, you will receive an email like the one shown in the picture below. The email will have an attached file with .mtmp extension. This file contains the evaluation of your system's predictions, which you can then visualize in Markyt. Notice that these results will be private, i.e. only you will receive the email and will be able to see the results.



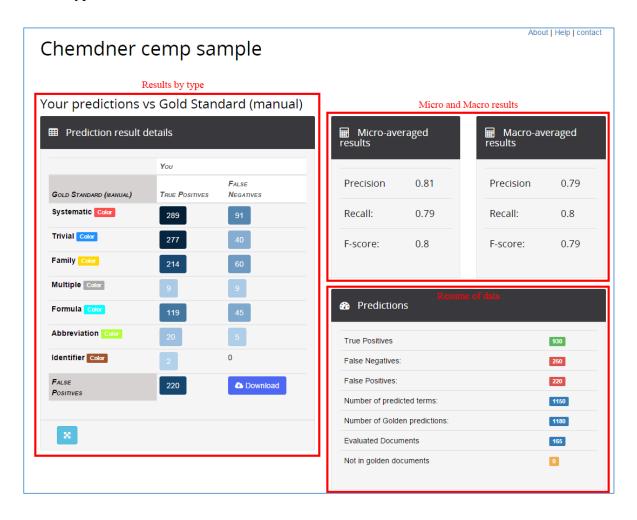
5. Load analysis

You may load the .mtmp file at http://markyt.org/biocreative/analysis. Follow the instructions provided in the picture below.



6. Check analysis

Here is an example of the prediction analysis. You will have general counts of matches and mismatches and performance metrics. You may also explore the lists of mismatches per annotation type and document.



Aditional information

Team

- Dr. Anália Lourenço
- Dr. Florentino Fdez-Riverola
- Martín Pérez Pérez
- ❖ Gael Pérez Rodríguez

Bibliographic Reference

❖ Pérez-Pérez M, Glez-Peña D, Fdez-Riverola F, Lourenço A (2014) Marky: A tool supporting annotation consistency in multi-user and iterative document annotation projects. Comput Methods Programs Biomed 118:242–251. doi: 10.1016/j.cmpb.2014.11.005.

