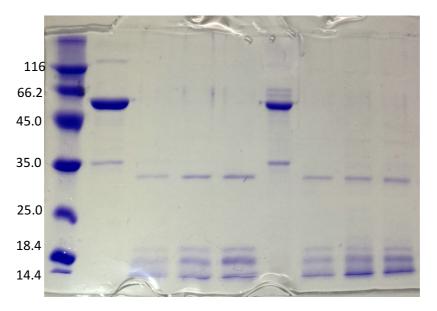
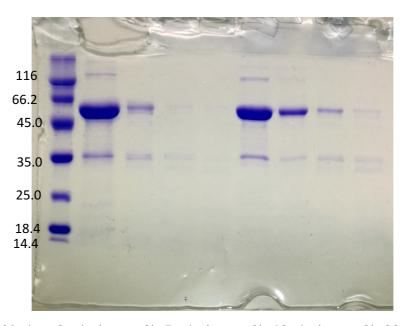
TRYPSIN DIGESTION REPORT- Nov. 2018

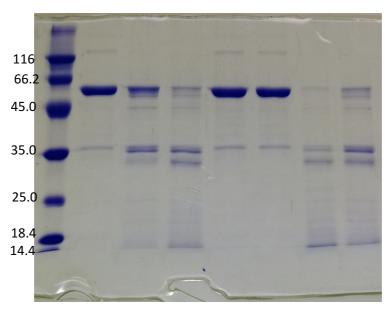
The students are separated into a total of 8 groups. Trypsin digestions were performed at 37 degree, and samples were taken at three different timepoint: 5min, 10min and 30min. Time 0 min was used as the control.



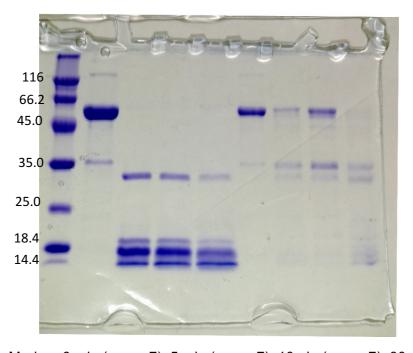
From left to right: Marker, 0 min (group 1), 5 min (group 1), 10min (group 1), 30min (group 1), 0min (group 2), 5 min (group 2), 10min (group 2), 30min (group 2)



From left to right: Marker, 0 min (group 3), 5 min (group 3), 10min (group 3), 30min (group 3), 0min (group 4), 5 min (group 4), 10min (group 4), 30min (group 4)



From left to right: Marker, 0 min (group 5), 5 min (group 5), 10min (group 5), 30min (group 5), 0min (group 6), 5 min (group 6), 10min (group 6), 30min (group 6)



From left to right: Marker, 0 min (group 7), 5 min (group 7), 10min (group 7), 30min (group 7), 0min (group 8), 5 min (group 8), 10min (group 8), 30min (group 8)

The smallest protein band observed for digestion carried out by most groups, is around 13-14 kDa. According to trypsin recognition sites (amino acids) this single band could be further digested into 4 smaller polypeptides with the following molecular masses (Da):

2568

2693

3931

4486

If you insert these peptide masses as a query in Mascot (Figure below):

- http://www.matrixscience.com/search form select.html
- peptide mass finger

(http://www.matrixscience.com/cgi/search_form.pl?FORMVER=2&SEARCH=PMF)



MASCOT Peptide Mass Fingerprint



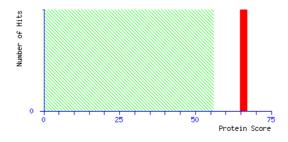
The output file generated (Figure below) identifies the protein as human FMO3 with a score of 66.

MATRIX Mascot Search Results

```
User : Sheila
Email : sheila.sadeghi@unito.it
Search title
Database : SwissProt 2018_09 (558590 sequences; 200544181 residues)
Taxonomy : Homo sapiens (human) (20411 sequences)
Timestamp : 6 Nov 2018 at 11:11:38 GMT
Top Score : 66 for FMO3_HUMAN, Dimethylaniline monooxygenase [N-oxide-forming] 3 OS=Homo sapiens OX=9606 GN=FMO3 PE=1 SV=5
```

Mascot Score Histogram

Protein score is -10*Log(P), where P is the probability that the observed match is a random event. Protein scores greater than 56 are significant (p<0.05).



Concise Protein Summary Report

