Predicting protein subchloroplast locations: The 10th anniversary

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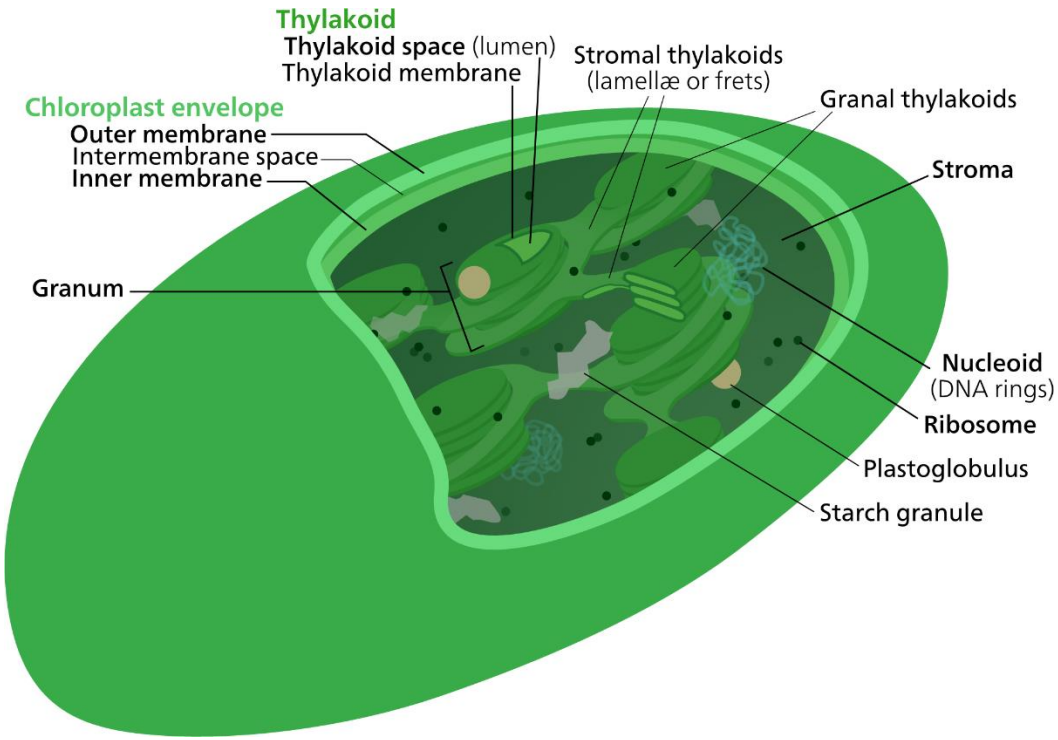
Predicting protein subchloroplast

- Review Topic: From Sequences to protein subchloroplast locations
- Ideas: use machine learning algorithms
- Various configuration for compartmentalize the chloropalst



This paper reviewed the progress

SubChlo

Version 2.0

Introduction
Service
Download
Help
Links

Notice: The SubChlo Service has been updated to SubChlo-GO. SubChlo-GO provides more accurate prediction to the protein subchloroplast locations.

Step 1. Choose the data transfer method.

Click on the following two options to choose your method for transferring data. The default choice is "Paste FASTA sequences". Your data must be prepared as FASTA format. If your data file is not larger than 2MB, you can either paste it directly in the textbox below or upload it as a single whole file. If your data file is larger than 2MB, please click the "Upload FASTA file".

Paste FASTA sequences [Activated] | Upload FASTA file [Disabled]

Step 2. Upload data and begin prediction.

Paste your sequence data in FASTA format in the textbox below. When you finished data pasting, click the "submit" button to begin the prediction.

Paste FASTA sequences here:

```
> Q949X0|
MASLLTKPKFVFLCSFSLSFKTLNTATPSLNFTRISFTHRQKLAFFKFPSLVVAFSEKGLKRDVTTAAAATEGDYRRIML
SEWLVKKKEKVVVWEEWKAMDPGAVAVVLSMNLLSLLAFFQFNWRAVSVAFGLYIVTGLLGITLSFHRWLSHKAFELFK
WLEYLFAYCGAQALQGNPIDWVSTHRYHHQFCDSDRDPHSPLDGFWFSHMNWWFDTNTITQRCGEPNNVGDLEKQFFYKF
LRTTYILHPLALAVALYAMGGFPFIVWGMGVRIVWVYHITVLVNSACHVWGKQAWNTGDLSKNNVWVAALAFGRGWHNNH
HAFRFSARHGLEWVQLDMTWYVVKFLQAIGLATDWKLPSEAQKQRMAFTSD
> P0C159|
MIWVQMNNFILDSTRIFMKAFHLLLFNGSFIFFECILIFGLILLLMIDLTSDQKDRFWFYFISSTSLVISITALLFRWR
EEPIISFSGNFQTNNFNEIFQFLILLCSTLCIPLSVEYIECTEMAITEFLLFVLTATLGGMFLCGANDLITIFVALECFS
LCSYLLSGYTKRDLRSNEATWKYLLMGGASSSILVLGFSWLYGLSGGEIELQEIVNGLINTQMYNSPGISIALIFITVGL
```

Submit

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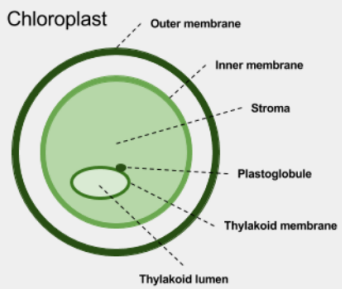
Welcome to the SChloro prediction server



The SChloro is a predictor of protein sub-chloroplastic localization which integrates predicted information about presence/absence of target specific sorting signals as well as protein-membrane interaction.

For details see:

Savojardo C., Martelli P.L., Fariselli P., Casadio R. "SChloro: directing Viridiplantae proteins to six chloroplastic sub-compartments", **Bioinformatics** (2016).

Submit a sequence

To start using SChloro you simply need to paste a FASTA sequence into the text field below and press the "Submit job" button. The server accepts a single FASTA sequence at a time.

FASTA sequence:

Fill with example

```
>sp|F4IQV7|SCY2_ARATH
MNSSQACFFHFSLRPISLSHPSYAFLSKRDPFLCSQPRKCLTTNLNMSRTRQGHSIQMNRRHLLMKERKSFSINYSDKFRDDSMSSEEMHTDALDVEIIPPDSQDIRNSQNSAVSNTLQDDRPKSFRNRFLDFVRISSVLNTAAERFFKSEIRRRLFVTAVLLVL
SRWGYFIPLPGFDRRLIPQDYLSFVSGSVEELGEFGAEIKLSLFQLGLSPQIIASIIMQVLCHVLPSLVKLRKEGLDGHEKIKSYIWWLSFFFAIVEALVVAYTSLQYSVFAATAQVKHVMMTSSLLWCGAMTMTWLCDTISESGPGHGSSLIICVGILTGYTET
LHKMLNQISGSFSNWLPYLLGLLGIFTVVIMFAVVVTEGCRKIKLQYYGFKLASASREGSPITEVEPYIPFNINPAGMQPVLTTTYLLAFPSILASILGSPFLLNMKEILNPESTVGAPPWVYYSIYAFFVFLFNIFDIANLPKEIADYLNKMGARIPNIKPGKA
TIEYLTKIQASTRFWGGLLLSFLATASTVLDHYLRSINQGFSIGFTSVLIIVGSIIELRRSYHAYNVMPSLSKALKRYGV
```

Submit job