

6. Let's play with a prokaryotic
annotation tool: Prokka
and

7. Visualization of results using
JBrowse

Guillaume GAUTREAU, 28/09/2022

Why to use Prokka ?

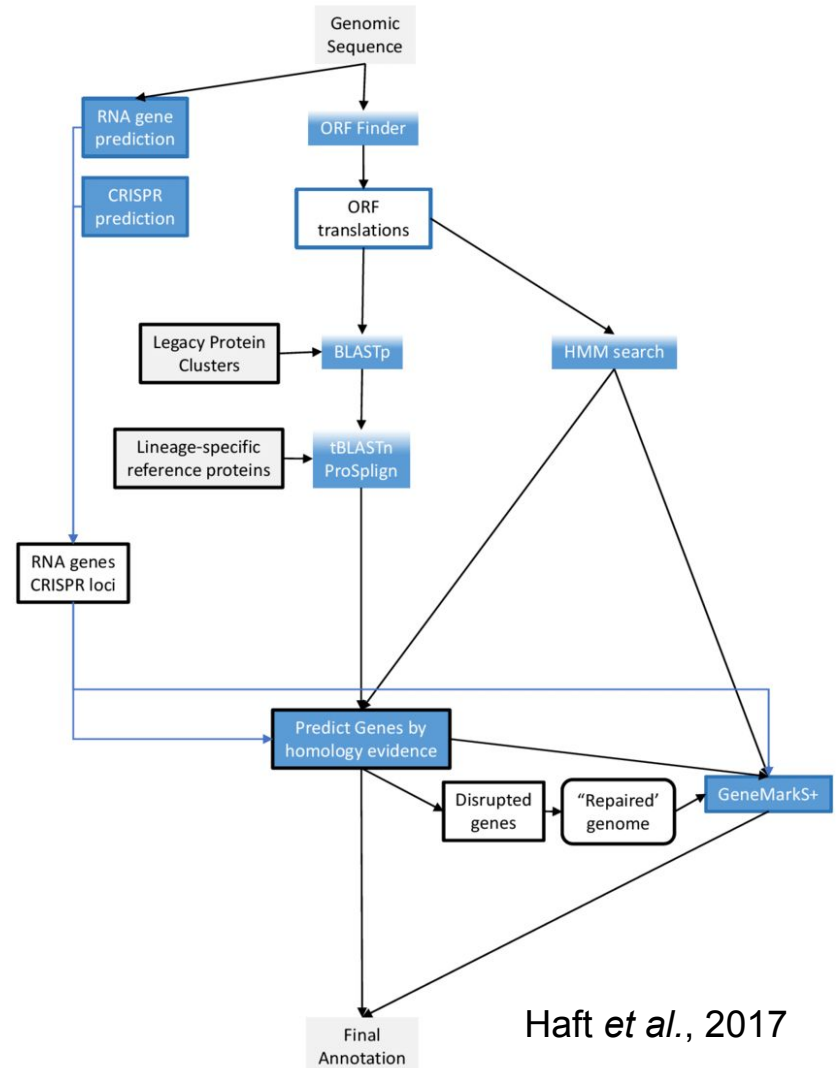
- Prokka is a wrapper of some of the tools described before, allowing to easily perform genome annotation
- Prokka is rapid, easy to use and famous
- Prokka is standard compliant (GFF3/GBK)

But Prokka is not the only tool to perform annotation:

- Prokaryotic Genome Annotation Pipeline
- More recent : bakta
- Custom pipeline
- Web platform (see lesson 11. Les plateformes d'annotation automatique)

PGAP Prokaryotic Genome Annotation Pipeline

- Developed by NCBI
- Offers a very good alternative to Prokka:
 - Much more detailed
 - Much more computationally intensive
 - Here is a detailed presentation https://youtu.be/pNn_-_46lpl



Next slides: Galaxy Prokka + visualization using JBrowse

<https://training.galaxyproject.org/training-material/topics/genome-annotation/tutorials/annotation-with-prokka/tutorial.html>

Genome annotation with Prokka

Authors:  Anna Syme  Torsten Seemann  Simon Gladman

Overview



Questions:

- How can we annotate a bacterial genome?
- How can we visualize annotated genomic features?

Objectives:

- Load genome into Galaxy
- Annotate genome with Prokka
- View annotations in JBrowse

Requirements:

- [Introduction to Galaxy Analyses](#)

Time estimation: 1 hour

Level: Introductory   

Supporting Materials:

 Slides  Datasets  Workflows  Tours  FAQs  Recordings  Available on these Galaxies

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