GetGenome
CFP application workshop

Get Genome

GENOMICS FOR ALL

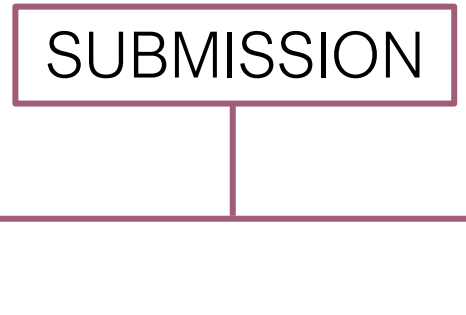
Charity registered in England & Wales (No. 1201069)

Get Genome

GENOMICS FOR ALL

GetGenome empowers scientists by providing equitable access to genomics technology and genomics-related training and education

Application assessment process



Selection Committee

- Eligibility
- Score matrix
  - Overall quality of application
  - Safety and purity of organism
  - Project justification, originality and innovation
  - Research priorities

GetGenome

- Species (Safety/Importation)
- Number of organisms (Budget)
- Environment (Safety/Research interest)
- Project theme (Research interest)

The GetGenome CFP Application

Framing

1. Describe your project

Conceptualize

2. How would **your project** benefit from GetGenome support?

Personal

3. How would **you** benefit from GetGenome support?

1. Describe your project

Framing your project

What? Why? Where?

Includes –

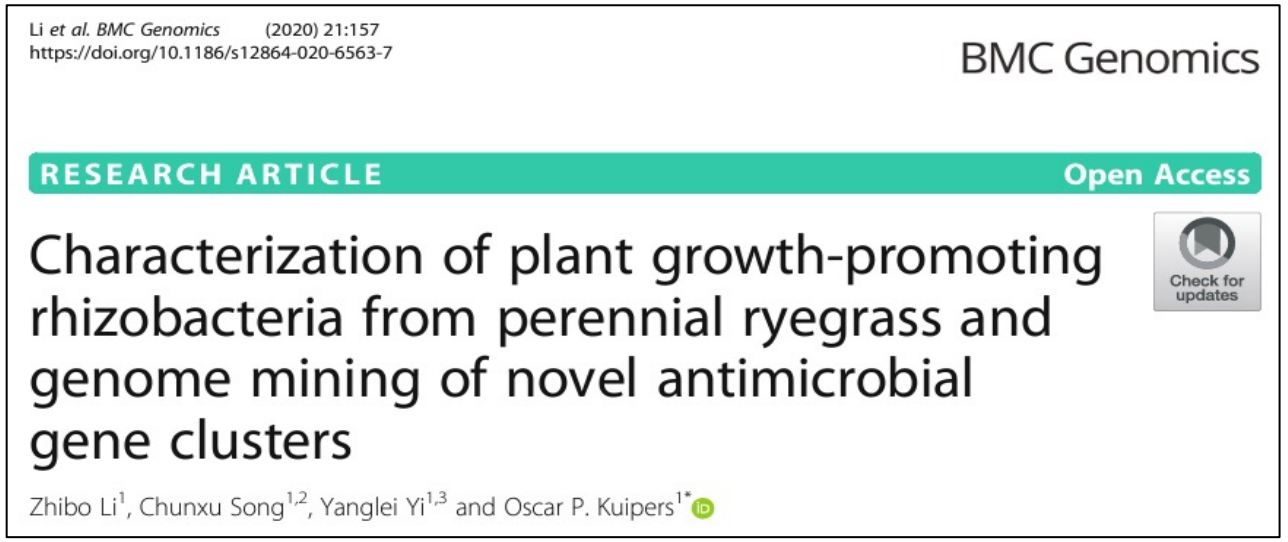
- Relevant background information
- Theme of research
- Organisms of interest
- Define the problem
- State why your project is important
- State the wider implications

Tips

- Narrow the scope - start from a broad context and reach a specific question you are trying to answer.
- Get to the point quickly – Grab the readers attention. Reviewers may decide the outcome in the first few sentences. Make them count.
- Proofread – spelling and grammar mistakes are rarely overlooked.
- Consider flow and narrative.

1. Describe your project

Example



Li et al. BMC Genomics (2020) 21:157
https://doi.org/10.1186/s12864-020-6563-7

BMC Genomics

RESEARCH ARTICLE Open Access

Characterization of plant growth-promoting rhizobacteria from perennial ryegrass and genome mining of novel antimicrobial gene clusters

Zhibo Li[1], Chunxu Song[1,2], Yanglei Yi[1,3] and Oscar P. Kuipers[1*]

Theme of research / Why it's important

"PGPRs have been widely reported to be effective in stimulating the growth of plants as well as protecting the plants from pathogens, which could be an alternative for chemical fertilizers and pesticides."

Why it's important

"*Bacillus* and closely related species form a great reservoir of antimicrobials that play very important roles in biocontrol."

1. Describe your project

Define the problem

“Antimicrobials produced by *Bacillus* and closely related species are very diverse... most studies focus on protection against plant pathogens and neglect the mammalian pathogens that may enter the body of animals through grazing.”

Wider implications

“PGPRs that can antagonize both phytopathogens and mammalian pathogens would ensure the safety of this food chain.”

2. How would your project benefit from GetGenome support?

GoHREP is the perfect way to conceptualise your project...

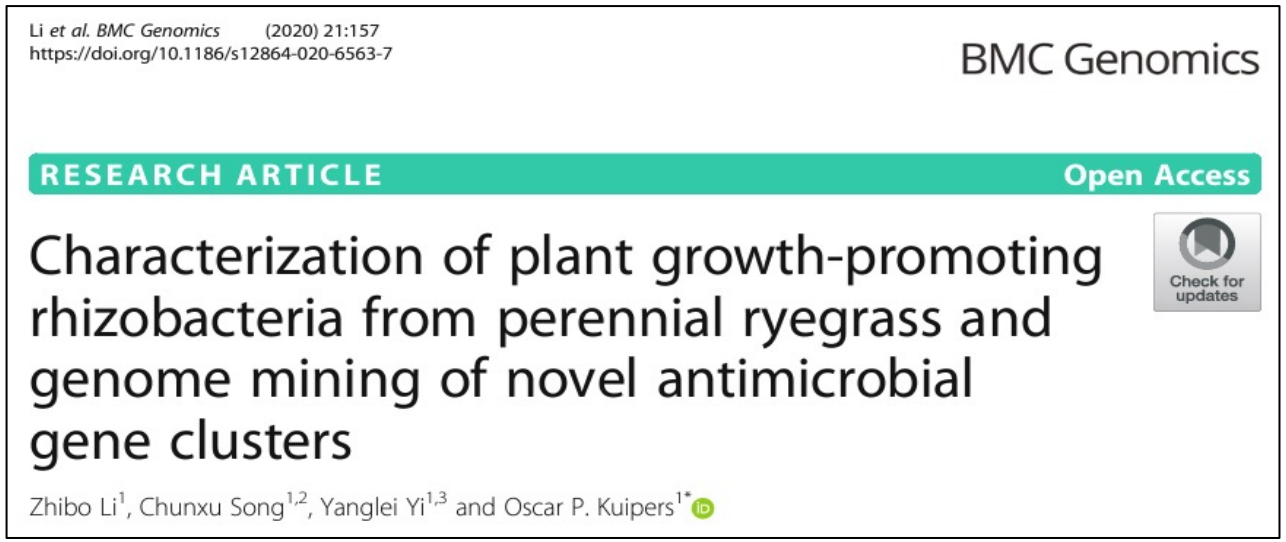
Goal
Hypothesis
Rationale
Experimental Plan

Goal	Hypothesis	Rationale	Experimental Plan
What is the main objective? What do you want to achieve?	A best guess Testable	What is the available evidence? Primary/secondary research	To do list Test your hypothesis

Kamoun, S. (2021). *Zenodo*. https://doi.org/10.5281/zenodo.5594443

2. How would your project benefit from GetGenome support?

Example



Li *et al. BMC Genomics* (2020) 21:157
https://doi.org/10.1186/s12864-020-6563-7

BMC Genomics

RESEARCH ARTICLE Open Access

Characterization of plant growth-promoting rhizobacteria from perennial ryegrass and genome mining of novel antimicrobial gene clusters

Zhibo Li[1], Chunxu Song[1,2], Yanglei Yi[1,3] and Oscar P. Kuipers[1*]

Goal

"Mine genomes of the candidate PGPR strains to find novel biosynthetic gene clusters (BGCs) that are potentially involved in phytopathogen and mammalian pathogen antagonism."

Hypothesis

"PGPR strains that antagonize plant and mammalian pathogens contain novel BGCs."

2. How would your project benefit from GetGenome support?

Rationale

“Antimicrobials are classified into three main groups: nonribosomal peptides (NRPs), polyketides (PKs), and bacteriocins and play important role in biocontrol against diverse pathogens.”

“Of the 90 strains screened, 7 displayed antimicrobial activity.”

Experimental plan

Conduct whole-genome sequencing on the 7 strains.

Mine genomes for BGCs.

Summary

- Determine what the reader would like (need) to know. For example, what species of organism(s) would you like to sequence? How many? Where did they come from?
- Plan your application.
- Frame your project to convey its importance and provide all the necessary background information.
- Use GoHREP to conceptualize your project.

Thank you!
Good luck!