



THE GLOBAL GRANTS
FOR GUT HEALTH



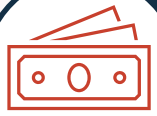
Writing an impactful grant proposal

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Nature Portfolio

Writing an effective proposal

Increase your chance of grant acceptance



Understand the grant/funders



Identify a novel and relevant problem



Preparing an effective proposal

Why are grants important?

- *Funding for your research*
- *Helps you structure your research plan*
- *Important in obtaining academic positions*

*Can only be used to support the research
directly according to the guidelines*



Understanding the funder

Low risk / high return

Funders are looking for low risk investments



Goal

Convince the funder of
the *success & impact*
of your proposal





Impact

Academic & societal

In line with the grant's objectives

<https://www.guthealth-grants.com/pages/about-the-grants>



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“In 2022, the Global Grants for Gut Health will consider proposals for research projects that advance our understanding of the **geriatric gut microbiome** and its **influence on human health and aging.**”





What will happen if your proposal does not align with the grant's objectives?

It will not likely be reviewed



Understanding the grant

Reviewing process

Reviewing your grant



Reviewed by expert panel on 4 criteria

Karen Scott



Eran Elinav



Kiyoshi Takeda



Liping Zhao

Review criteria

<https://www.guthealth-grants.com/pages/applicant-guidelines>

1

Quality and originality of the science

Must contribute to knowledge of the human microbiota using well-designed & robust studies

2

Potential scientific & social impact

Importance of the contribution to society and patients via knowledge, tools & techniques

3

Quality of applicant & value for money

Applicants must be qualified to conduct the study & budget should be appropriate

4

Emphasis on mechanism of action

Elucidate the role of geriatric gut microbiome on health and aging, ***not*** just descriptive





Relevant research questions

Novel and impactful

Formulating a research question



After a thorough review of the field

What are the important problems?

Discuss with colleagues

Which can you address?

After selecting a question...

Double-check
databases for originality

Discuss with colleagues

Be SMART when considering your aim(s)

S

Specific – Focused on an important issue

M

Measurable – Appropriate methodologies

A

Achievable – Have expertise and resources

R

Realistic – Cost effective (in budget)

T

Timely – Can be completed within 1 year

Focusing your aims

What are you investigating?

Variable, condition, strategy, intervention

What are you measuring?

- Outcome
- Comparison

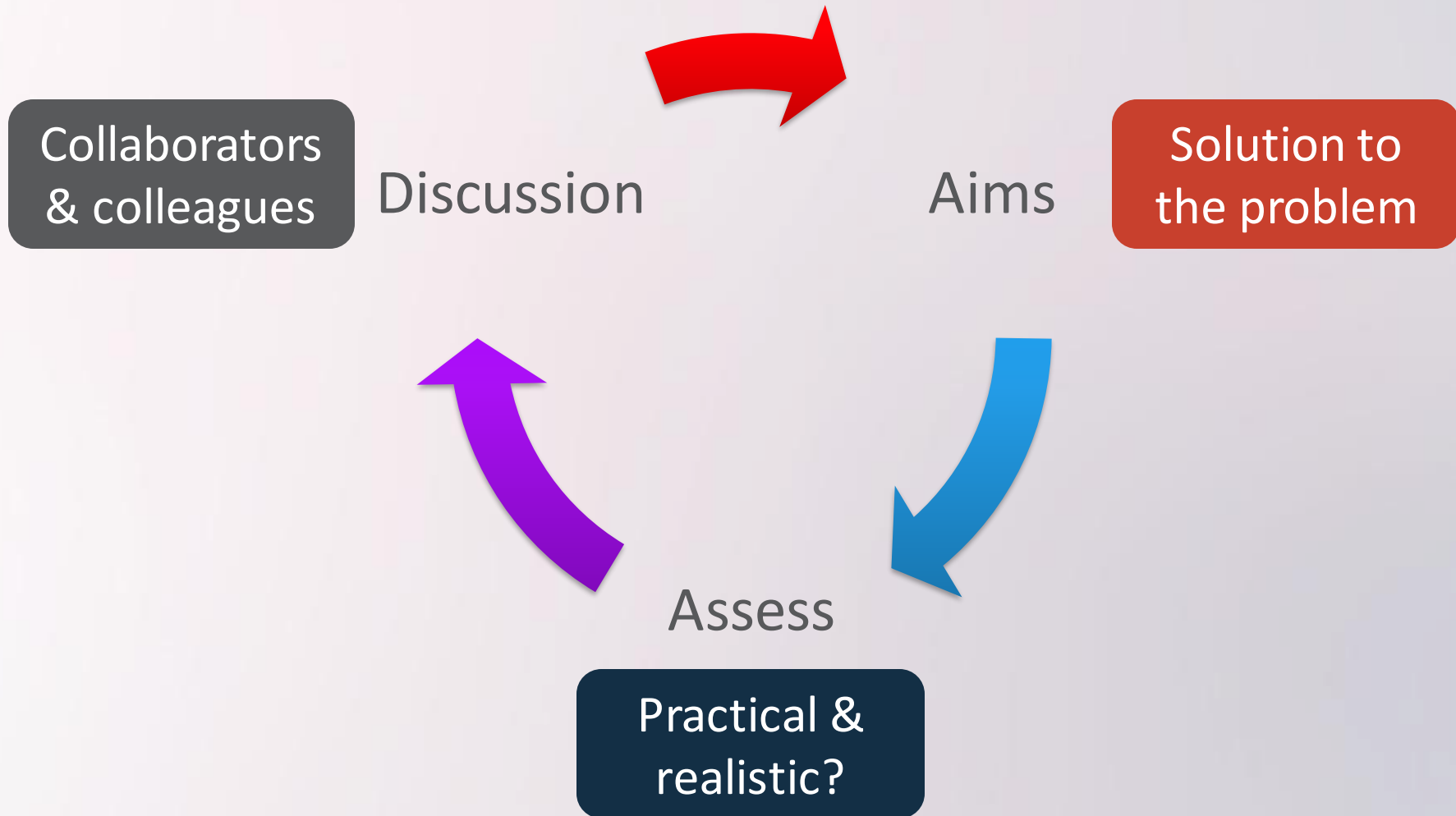
From where are the measurements taken?

- Participants, animals
- Samples, materials

What are the key benefits and for whom?

Academic, societal, commercial

Organic refinement





What to avoid when deciding aims

Fishing expedition

- Unclear variable or outcomes
- Find along the way (data dredging)

What to avoid when deciding aims

Preconceived aims

- Outcomes already decided
- Skew experiments to achieve them





Preparing your proposal

Follow the guidelines

For Global Grants for Gut Health

Project summary

Summarize context, objectives, methodology, project team and dissemination/impact plan (600 words)

Research proposal

Detailed information of the above (~5000 words)

Budget

Description of direct costs of up to USD100,000

CVs

CVs of each team member to establish credibility

Summary statement

Summary of overall purpose and importance of proposal (250 words)

Project summary

Abstract of your proposal

Keep your reviewers in mind!

They have many proposals to read...

Make yours stand out!

Summary

What to include <600 words)

“Our proposed study will investigate [main purpose].”

Introduction to the proposal

“Although previous studies have demonstrated... it is still unclear if [currently important problem].”

Context and research question

“Therefore, in this study, we will address this issue by [aims and brief methodology].”

Aims and methodology

“This study will be conducted by [project team] located at [institution(s)].”

Project team

“This study will be important to [solve problem] and will also be able to [benefit to the field/society].”

Impact and benefits



Research proposal

Detailed description of your project

Research proposal

Research question

***Research question
(<250 words)***

Describe the question that
you previously identified and
refined with your colleagues



Research proposal

Context

Context (background, <500 words)

What is known
about the topic

Discuss the literature (peer-
reviewed, pre-prints, repositories)

This section is useful to:

- Establish subject **expertise** (credibility)
- Give **context** as to why the study needs to be done
- Important to highlight the research **problem**; i.e., the motivation why the proposal should be funded

Discussing previous research

Be careful here!

- *Little research* being done suggests not interesting to the field or society now (and therefore difficult to publish)
- *Too much research* suggests not original or too much competition (and therefore, again, difficult to publish)

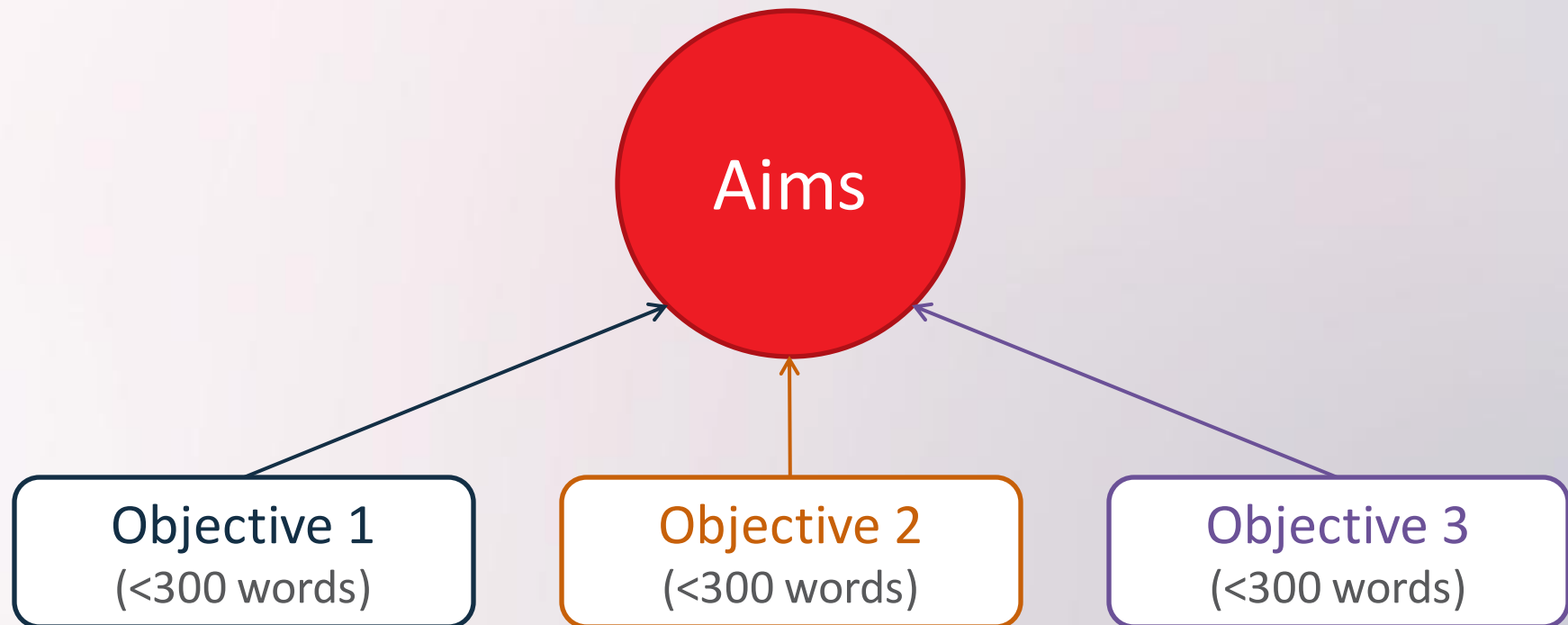
You need to have a **balance** (discuss with colleagues)

Research proposal

Objectives

Identify up to 3 objectives

Consider three ways to address your aims



Each objective should be independent of each other

Research proposal

Methodology

Methodology

Write methodology for **each objective** (<750 words)

SMART

- **S**pecific – Focused on an important issue
- **M**easurable – Appropriate methodologies exist
- **A**chievable – You have the technologies/expertise
- **R**ealistic – Cost effective
- **T**imely – Can be conducted within 1 year

Demonstrate that your research plan
is feasible and not a **risk**

Preliminary results

Important points to remember

If you have preliminary data to support your proposal, this is when you discuss it!

- Established expertise
- Validates proposal

You are allowed up to 5 figures per objective

Research proposal

Project management

Risks and contingency plans

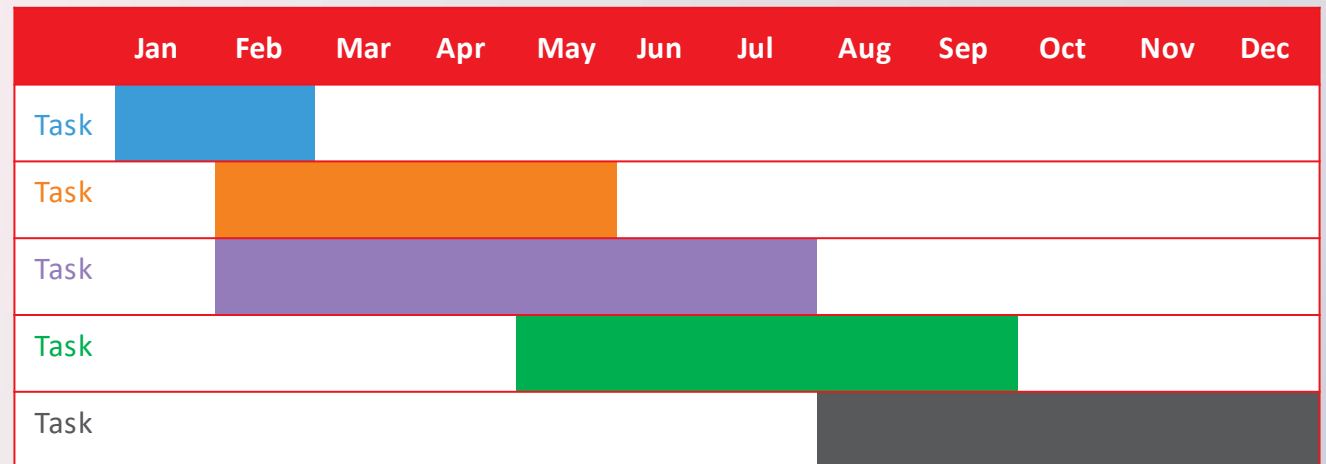
You can include up to 3 risks and back-up plans

Shows you have carefully considered your study design (greater chance of **success**)



Other aspects of project management

Timeline
(upload Gantt chart file)



Other aspects of project management

Timeline

(upload Gantt chart file)

Research environment

Institutional facilities available (<400 words)

Project team

List of members along with background / roles (<500 words)

Impact plan

How to achieve societal impact (<600 words)



Additional information

Budget, CVs, & summary statement



Budget

Budget

Why does it matter?

Shows **feasibility** of the study

Shows **careful planning** of the study

Strongly impacts proposal success

CVs

*Upload each team member's CV
(up to 4)*

Confidence in you

What have you accomplished?
Funding agencies are looking for
low risk investments



Summary statement

Like the *conclusion* of your proposal (<250 words)

Summarize the overall purpose and importance of your proposed study

Your last chance to make an *impact*!

Thank you and good luck!

Any questions?



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