

RESEARCH ACCELERATION PROGRAM

A S H B i

KAKENHI Writing Seminar for early-stage Researchers

Makoto Shida, ASHBi-URA



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- Individual Writing Support (@ ASHBi, from 2019) KAKENHI: Transformative Research A/B, Kiban S/A/C & Wakate ^{SH®} Other grants including JST-F@REST, AMED etc.

- Seminar Lecturer

RESEARCH ACCELERATION

KAKENH Telling voi ASHBi

KAKENHI, DC1/2 Fellowships, and others

KAKENHI Seminars

KAKENI

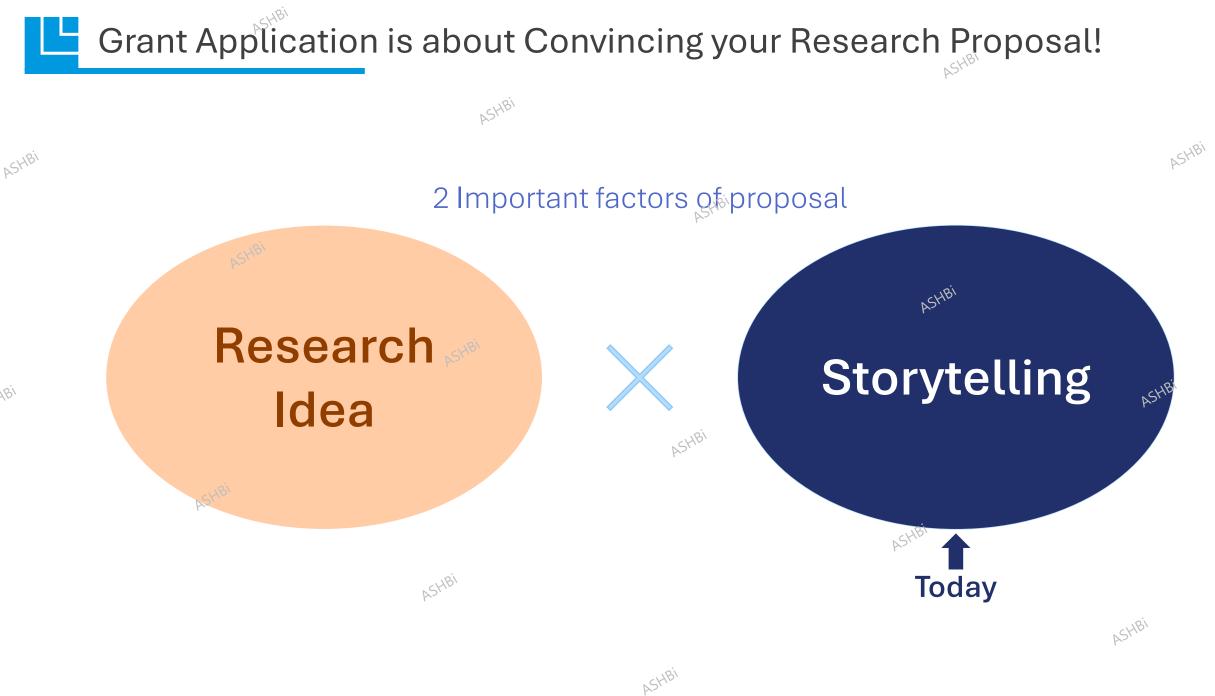
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DC1/DC2 Seminars





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1. Basic Information and Application Process

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2. Evaluation System for WAKATE & Kiban C

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3. Storytelling: Preparing an Effective Proposal

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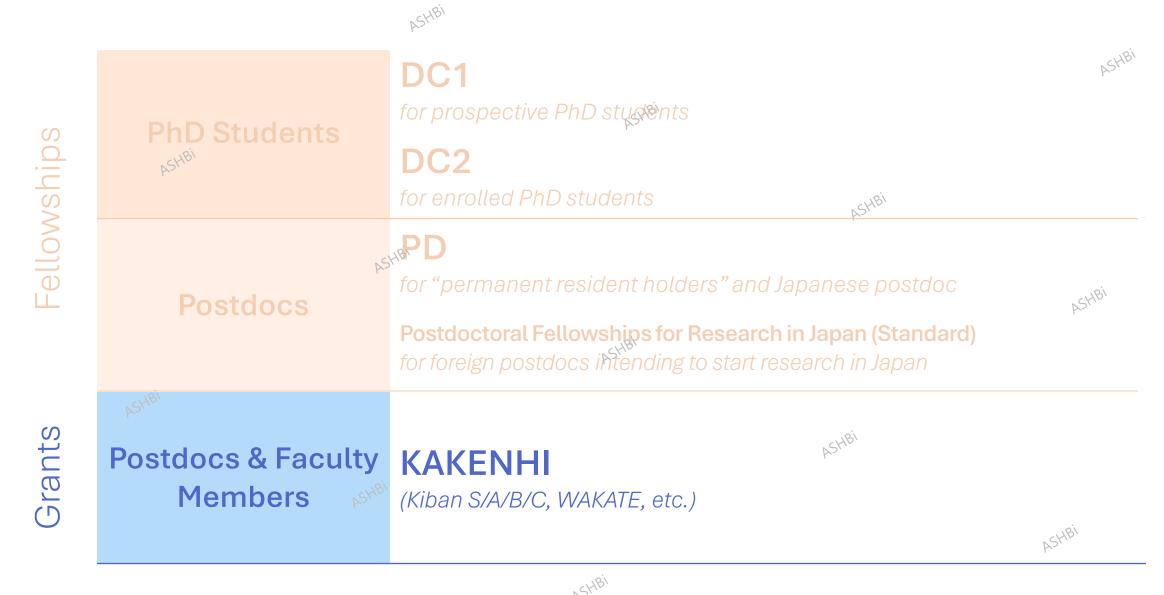
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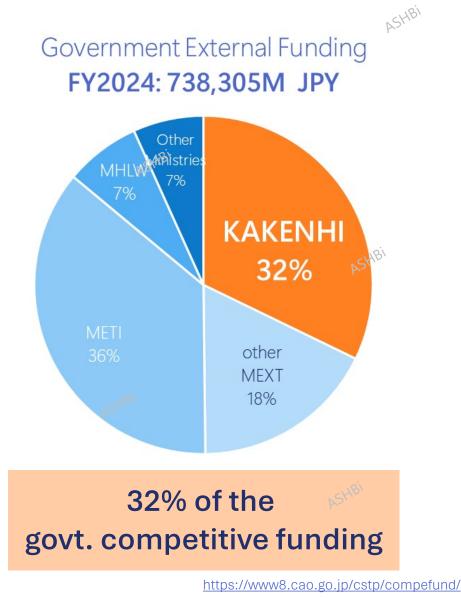
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JSPS funding programs for PhD students & Early-stage researchers

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KAKENHI is the largest & most accessible funding program in Japan

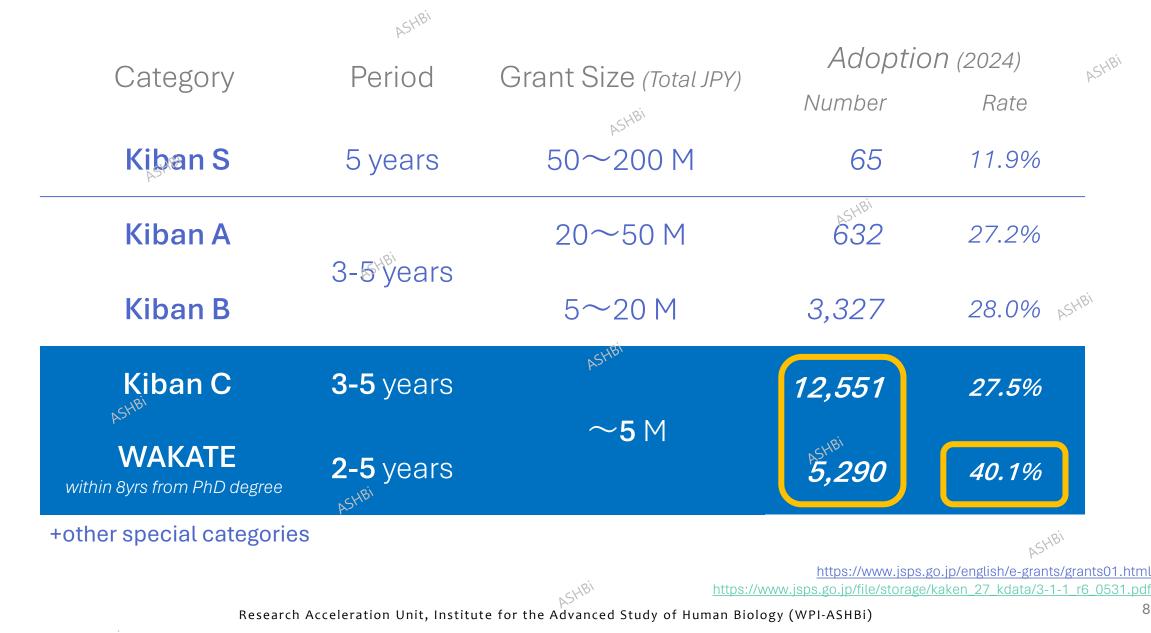


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https://www.jsps.go.jp/file/storage/kaken_27_kdata_g1333/2-1_r5.pdf

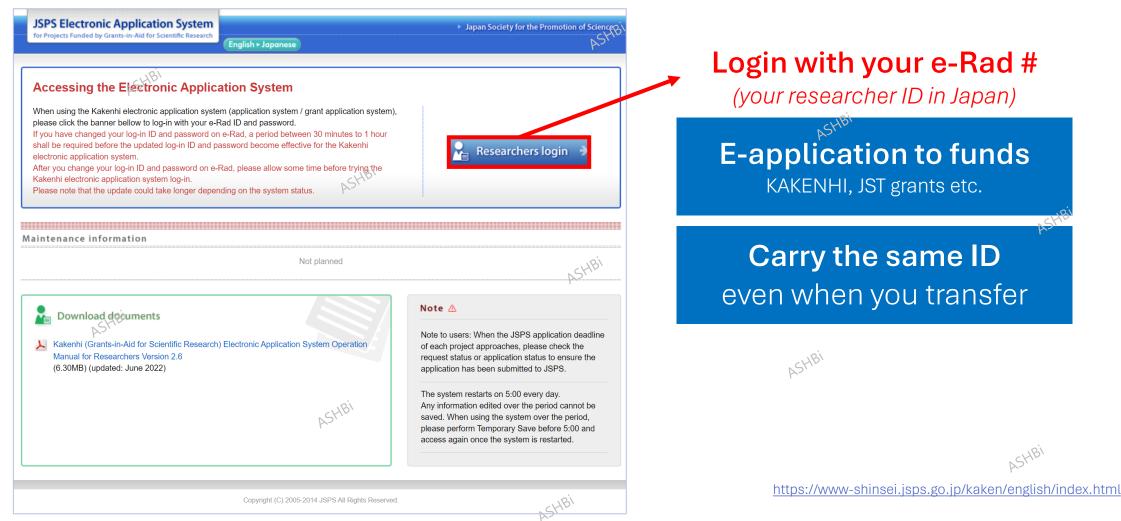
For early-stage researchers, WAKATE/Kiban C are the most suitable



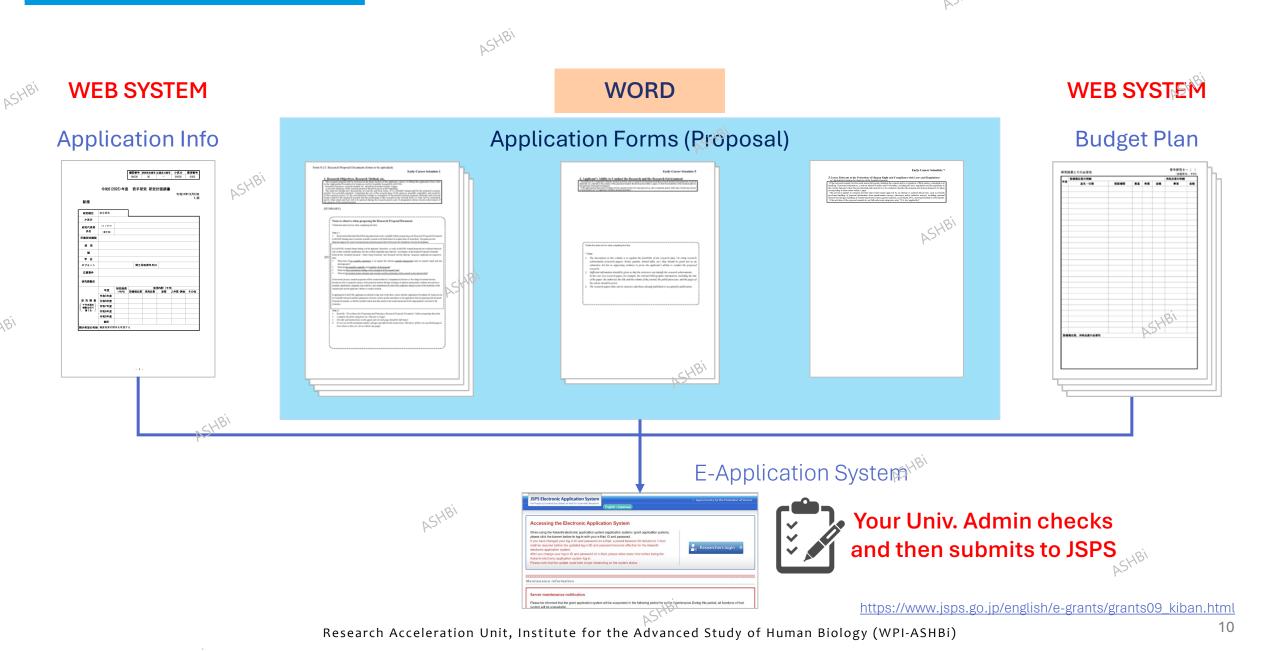
You need to apply via the JSPS E-Application System

- To start, contact your univ. admin for
- internal deadline

your e-Rad #



You need to upload the application set in the E-Application System



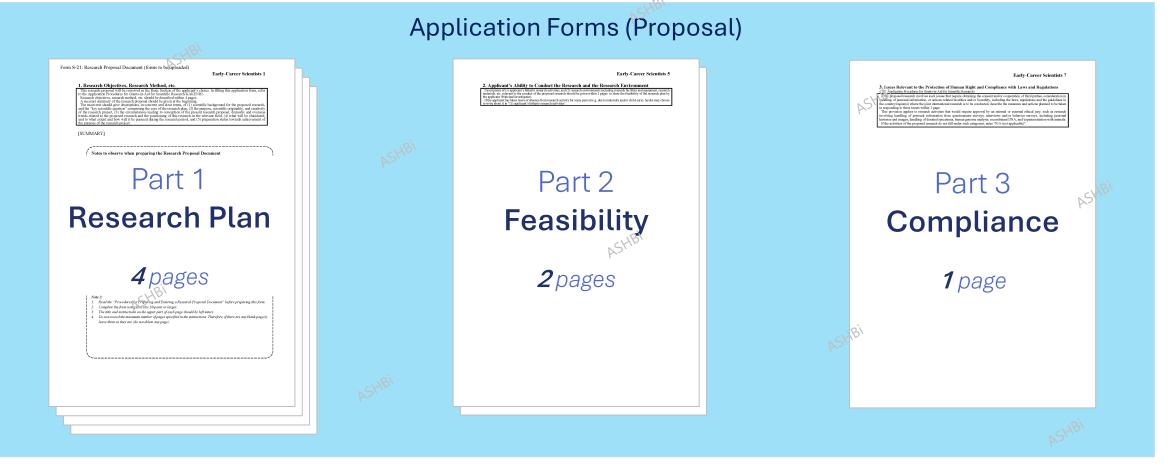
Your Application Forms (Proposal) consist of 3 Parts

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Make sure to follow the instructions carefully

- e.g. page limit & font size (10pts or larger)
 - context to be answered for each part





https://www.jsps.go.jp/english/e-grants/grants09_kiban.html

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Summary: Basic Information and application process

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1. Basic Information and Application Process

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3. Storytelling: Preparing an Effective Proposal

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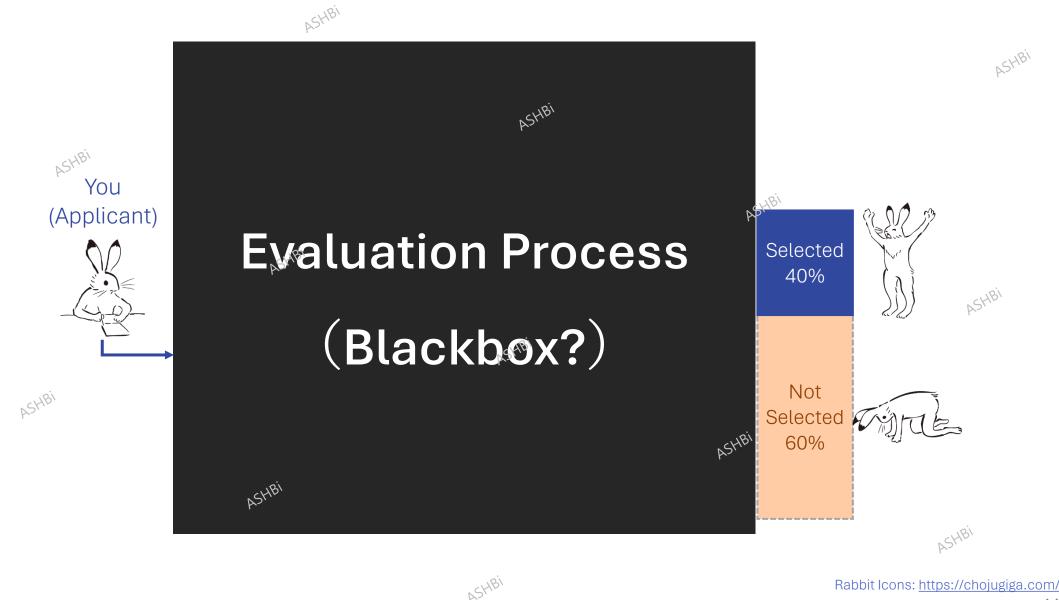
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What is the evaluation process for WAKATE/Kiban C?

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*Kiban B follows the same process

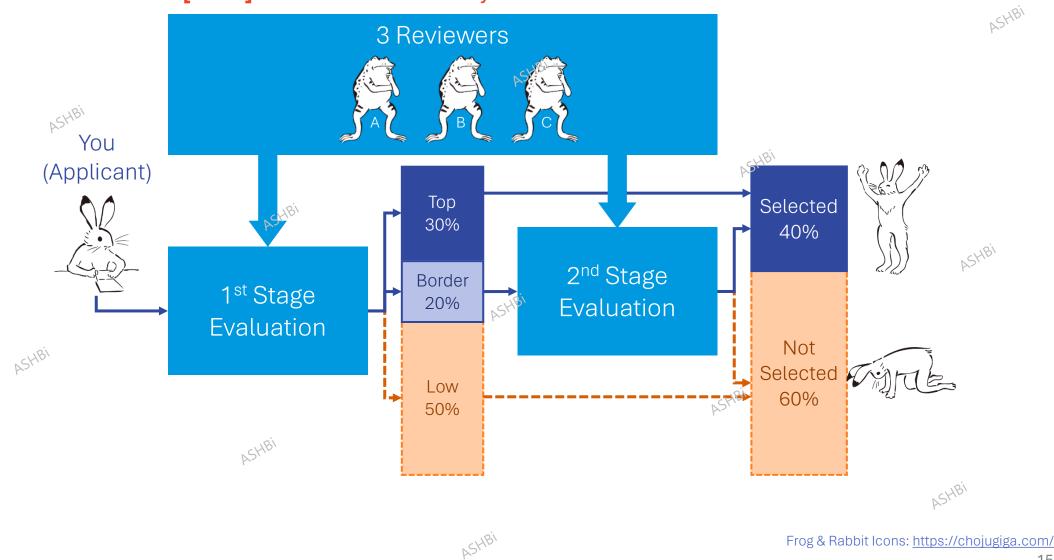


WAKATE/Kiban C Applicants are evaluated by 3 reviewers in 2 stages

*Kiban B follows the same process with 5 reviewers



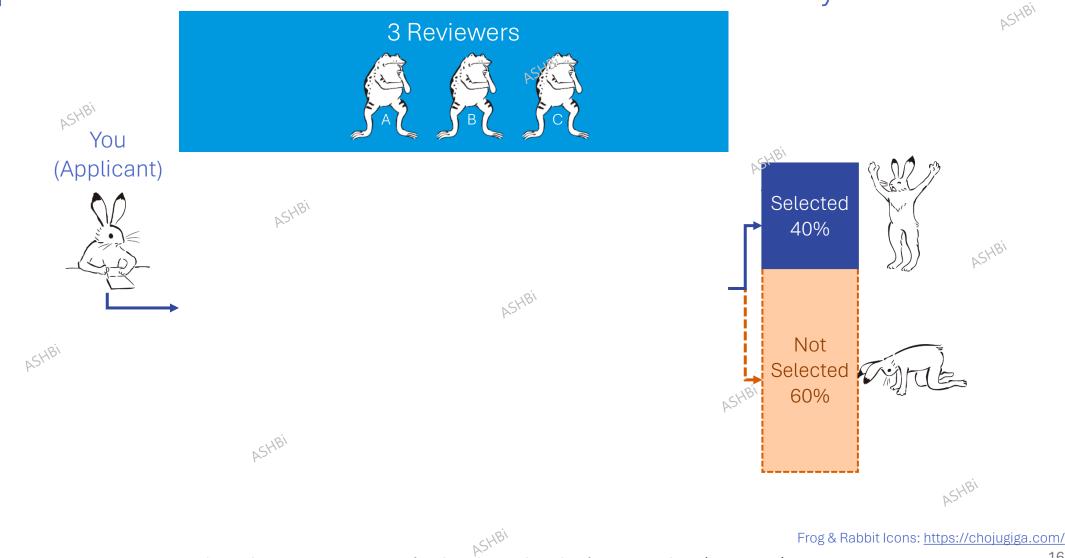
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Reviewers: Researchers in your Review Section fields

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Experts are selected from the "Review Section" which you chose



You are to choose from the 306 "Basic Sections" (each covering a broad field)

10				
u sec	ction G	CHB1		
Medium-sized Section 43: Biology at molecular to cellular levels,				
and related fields				
	Basic Section			
	43010 Molecular biology-related			
	43020 Structural biochemistry-related			
	Functional biochemistry-related			
	43040	Biophysics-related		
	43050	Genome biology-related		
	43060	System genome science-related		
Med	ium-sized	Section 44: Biology at cellular to organismal levels,		
and related fields				
	Basic Section			
	1			
	44010	Cell biology-related		
	44010 44020			
	44020	Developmental biology-related		
	44020 44030 44040	Developmental biology-related Plant molecular biology and physiology-related		
	44020 44030	Developmental biology-related Plant molecular biology and physiology-related Morphology and anatomical structure-related		
Med	44020 44030 44040 44050	Developmental biology-related Plant molecular biology and physiology-related Morphology and anatomical structure-related Animal physiological chemistry, physiology and		
Med	44020 44030 44040 44050 S	Developmental biology-related Plant molecular biology and physiology-related Morphology and anatomical structure-related Animal physiological chemistry, physiology and behavioral biology-related		
Med	44020 44030 44040 44050 S	Developmental biology-related Plant molecular biology and physiology-related Morphology and anatomical structure-related Animal physiological chemistry, physiology and behavioral biology-related Section 45: Biology at organismal to population levels		
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Med	44020 44030 44040 44050 ium-sized and anthe	Developmental biology-related Plant molecular biology and physiology-related Morphology and anatomical structure-related Animal physiological chemistry, physiology and behavioral biology-related Section 45: Biology at organismal to population levels ropology, and related fields Basic Section		

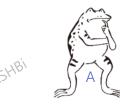
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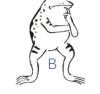
44020 Developmental biology-related

Cell differentiation, Stem cells, Regeneration, Germ layer formation, Morphogenesis, Organogenesis, Fertilization, Germ cells, Developmental genetics, Evolution and development, etc.



Experts in Basic Section "44020"







Regeneration

Developmental genetics

Morphogenesis

Reviewers are experts but may not be from your "specific" field



Past reviewer info can be helpful in choosing your Review Section

1 Section		SHB,			
Medium-sized Section 43: Biology at molecular to cellular levels,					
a	and related fields				
	Basic Section				
	43010 Molecular biology-related				
43020 Structural biochemistry-related					
43030 Functional biochemistry-related		Functional biochemistry-related			
	43040	Biophysics-related			
	43050	Genome biology-related			
	43060	System genome science-related			
Mediu	m-sized	Section 44: Biology at cellular to organismal levels			
a	nd relate	d fields			
Γ		Basic Section			
	44010 Cell biology-related				
	44020 Developmental biology-related				
	44030	Plant molecular biology and physiology-related			
	44040	Morphology and anatomical structure-related			
	44050	Animal physiological chemistry, physiology and			
Þ	44050 St	behavioral biology-related			
Medium-sized Section 45: Biology at organismal to population levels					
a	and anthropology, and related fields				
Γ		Basic Section			
	45010	Genetics-related			
	45020	Evolutionary biology-related			
	45030	Biodiversity and systematics-related			
	45040 Eastern and antimement related				

https://www.isps.go.jp/file/storage/kaken kiban 2024 g 2307/review section table e.pdf

Past reviewers are disclosed *(provided only in Japanese)*

FY2020 <u>審査第四部会第44020小委員会</u> [発生生物学関連]	
機関・部局・職	氏名
SHBI	ハヤシ カツヒコ
九州大学・医学研究院・教授	林 克彦
	フクダ キミコ
首都大学東京・理学研究科・准教授	福田 公子
	クマノ カ゚ ク
東北大学・生命科学研究科・教授	熊野 岳
	ワダ ヒロノリ
北里大学・一般教育部・准教授	和田浩則

FY2019

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NZ,	

<u>審査第四部会第44020小委員会</u>

[発生生物学関連]

機関·部局·職	氏名
	ハヤシ カツヒコ
九州大学·医学研究院·教授	林克彦
A-1	オオタ クニマサ
熊本大学·大学院生命科学研究部·准教授	太田 訓正
	フクタ゛キミコ
首都大学東京・理学研究科・准教授	福田 公子
	クマノ カ゛ク
東北大学·生命科学研究科·教授	熊野 岳 (8)

https://www.jsps.go.jp/j-grantsinaid/14_kouho/meibo.html

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Past selections can also be helpful in choosing your Review Section

https://www.jsps.

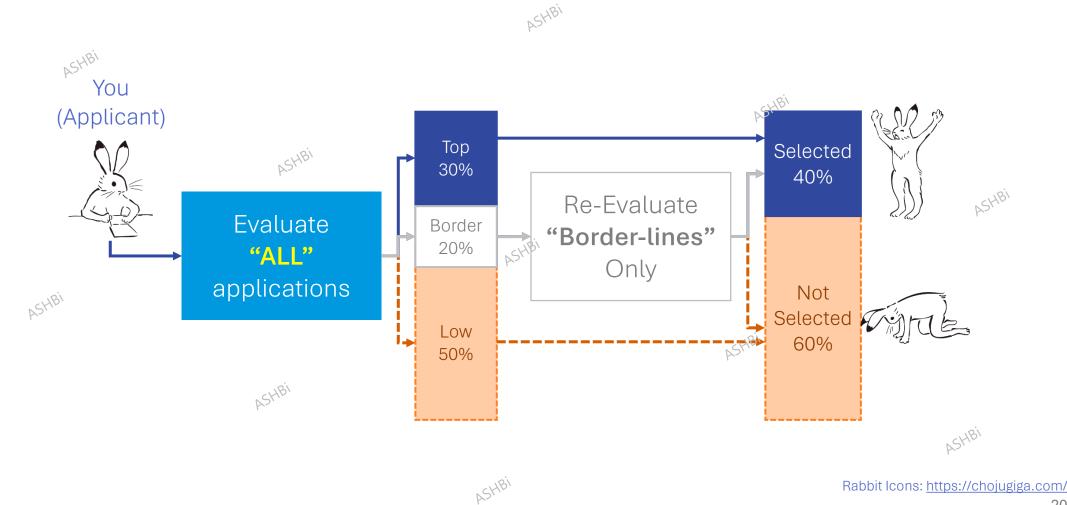
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Medium-sized Section 43: Biology at molecular to cellular levels,			Yo	u can se	arch for past pi	rojects using			
	and related fields			KVKEN	NHI Database				
	Basic S	ection							
	43010 Molecular biology-related 43020 Structural biochemistry-related		KAKEN	Search Research Projects Search Rese	archers	How to Use English 🗸			
			ASHBI		Research Category: A tempor	Research Category: A temporary measure following the change in Grant-in-Aid for JSPS Fellows (20th April 202 Assessment Materials for FY2023 (part) have been registered (26th May 202			
	43030 Functional biochemistry-re	elated							
	43040 Biophysics-related								
	43050 Genome biology-related				KAKEN Grants				
	43060 System genome science-re	lated			Grants-in-Aid for Scientific Research Database				
Med	lium-sized Section 44: Biology at cellular to organismal levels				Research(KAKEN) is a public database which includes information on adop				
	and related fields			_	h(KAKENHI) Program. This system is hosted by the National Institute of Inf				
	Basic Section 44010 Cell biology-related			Free word		Search Close			
						, BI			
					We have enhanced the search function of the KAKEN database to make it easier to search for information on International Joint Research projects				
	44030 Plant molecular biology ar				https://support.nii.ac.jp/en/news/kaken/2021122	7-0			
	44030 Plant molecular biology at 44040 Morphology and anatomic		ASHBI						
	1 00		L.	Research Project Title Project Type	Project/Area Number Research Project Administrative Group				
	Animal physiological cher					Publicly Offered Research			
	behavioral biology-related				International Activities Supporting Group				
Med	lium-sized Section 45: Biology at orga	inismal to population levels		Research Category Allocation Type	Grant-in-Aid for Early-Career Scientists	Find Research Category			
	and anthropology, and related fields			Review Section/Research Fie	Single-year Grant Kulti-year Fund Partial Multi-year Fu Basic Section 44020-Developmental biology-related	Find Review Section/Research Field			
	Basic S			Research Institution	base section	Find Research Institution			
		B		Project Period (FY)	2020 V V FY of Project V				
	45010 Genetics-related	ASHI		Total Cost (Overall)					
	45020 Evolutionary biology-relat	5020 Evolutionary biology-related		Project Status	Adopted Granted Ceased Suspended Com	oleted Declined Discontinued			
	45030 Biodiversity and systemati	ics-related		Keywords		SHBI			
	45040 Eastern and anticomment related			Research Abstract		P-			

Evaluation: the fate of approx. 80% are decided in 1st Stage

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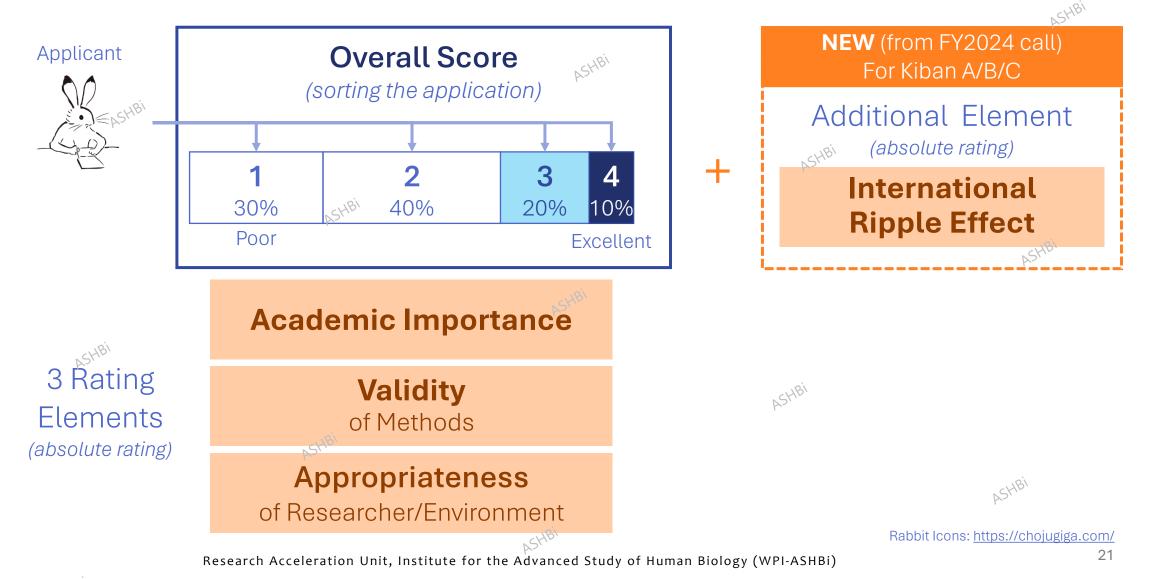




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Reviewers sort applications into 4 categories using the "Overall Score"

"Overall Score" Average of the 3 Reviewers is used for selection



Reviewers need to assess these points for each Rating Element

Assessment criteria for each category is provided at the KAKENHI website

(1) Academic Importance of the Research Proposal

- Is the research proposal an important research project that should be promoted from a scientific perspective?
- Is the "key research question or issue" comprising the core of the research project clearly stated? Is it original and creative?
- Does the research proposal clearly show the <u>circumstances leading to this research proposal</u>, <u>global research</u> <u>trends</u>, and the <u>positioning of this research</u> within the relevant domain or field?
- By conducting the proposed research project, could we expect <u>positive effects on broader fields</u>, science and technology, the society or other areas?

(2) Validity of the Research Method

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- Is the research method, etc. specific and appropriate to achieve the research objective? Also, are the research expenditures consistent with the research plan?
- Is the state of <u>preparation appropriate</u> to achieve the research objective?
- (3) Appropriateness of Ability and Research Environment to Conduct Research
 - Judging from the research activities, etc. conducted over the years, does the applicant possess <u>sufficient</u> ability to carry out the research plan?
 - Has the applicant secured a research environment that he/she needs to conduct the research plan including research facilities, equipment, and research materials?

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Summary of Evaluation Systems

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	b2,	
Evolvetien	- 2 stage document review	
Evaluation	Most are decided in 1 st stage (1 chance)	ASHBI
System	Your proposal needs to be understood properly	
ASHBI	- 306 Basic Sections	
	- 3 Reviewers	
Reviewers	Reviewers may not be experts of your specific field	
	Your proposal needs to be in easy-to-understand format	ASHBI
	- Overall Score + 3 Rating Elements	-
ASHBI	- Academic Importance	
Scoring	- Validity of Methods	
System	- Appropriateness of Researcher/Environment	
	 International Ripple Effect* (*for Kiban A/B/C) 	ASHBI



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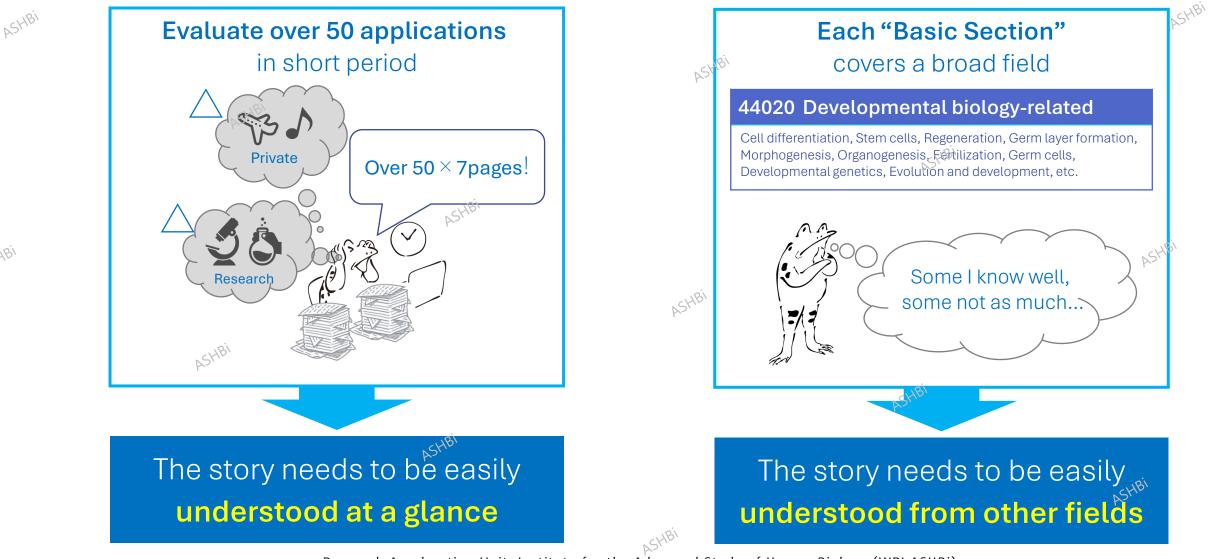
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Before writing, we need to understand the reviewer's circumstances

Your proposal needs to be quickly & easily understood by your reviewers



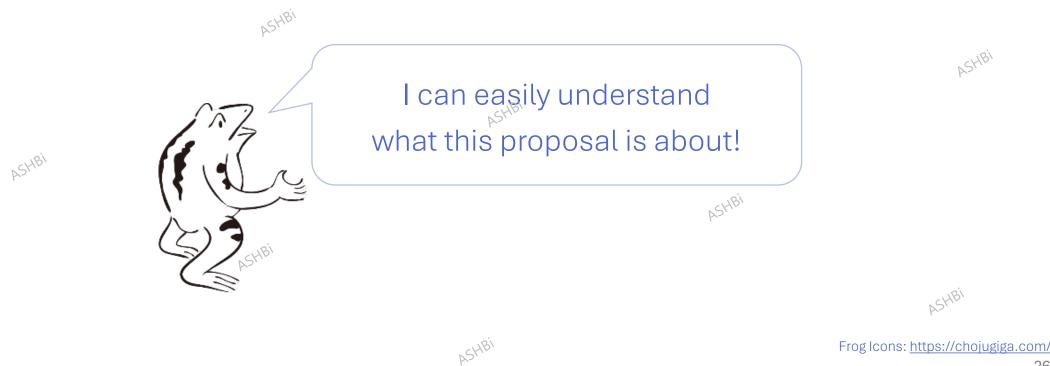
What can we do to make an effective grant proposal?

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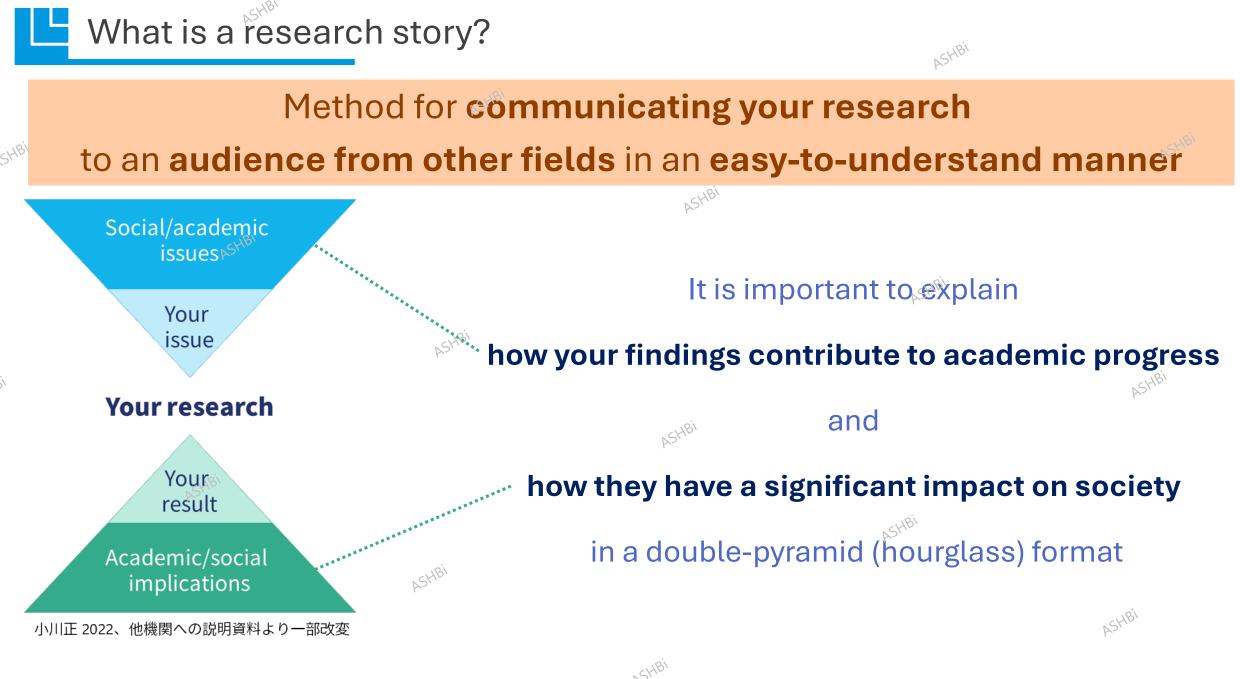
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helps reviewers capture your story quickly

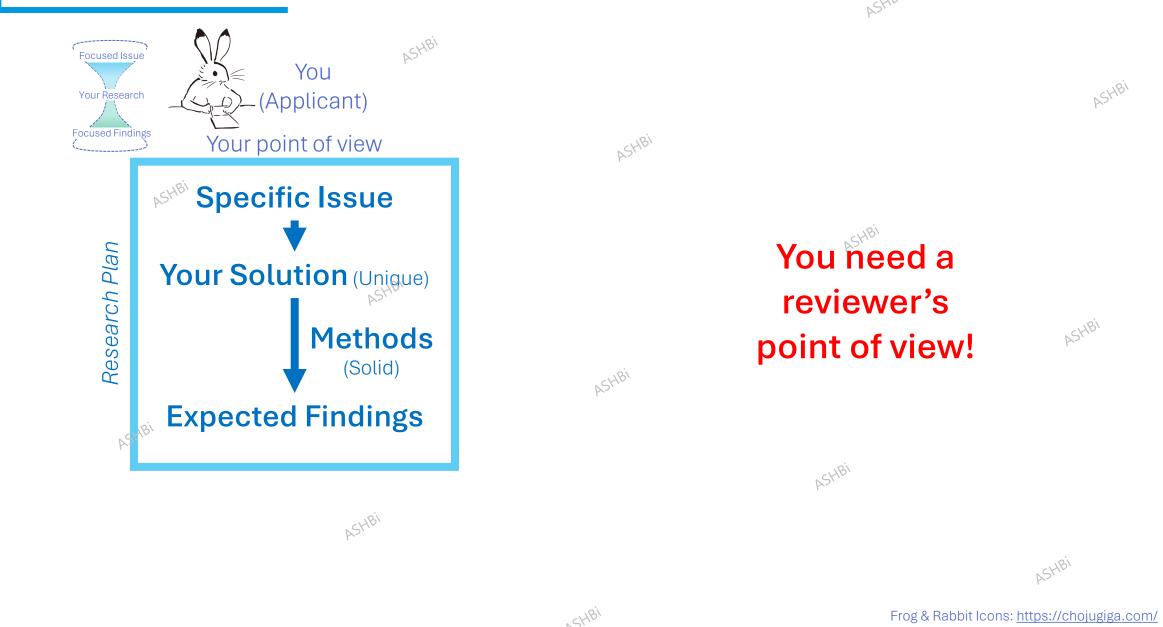


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How can you incorporate the research story into your proposal?

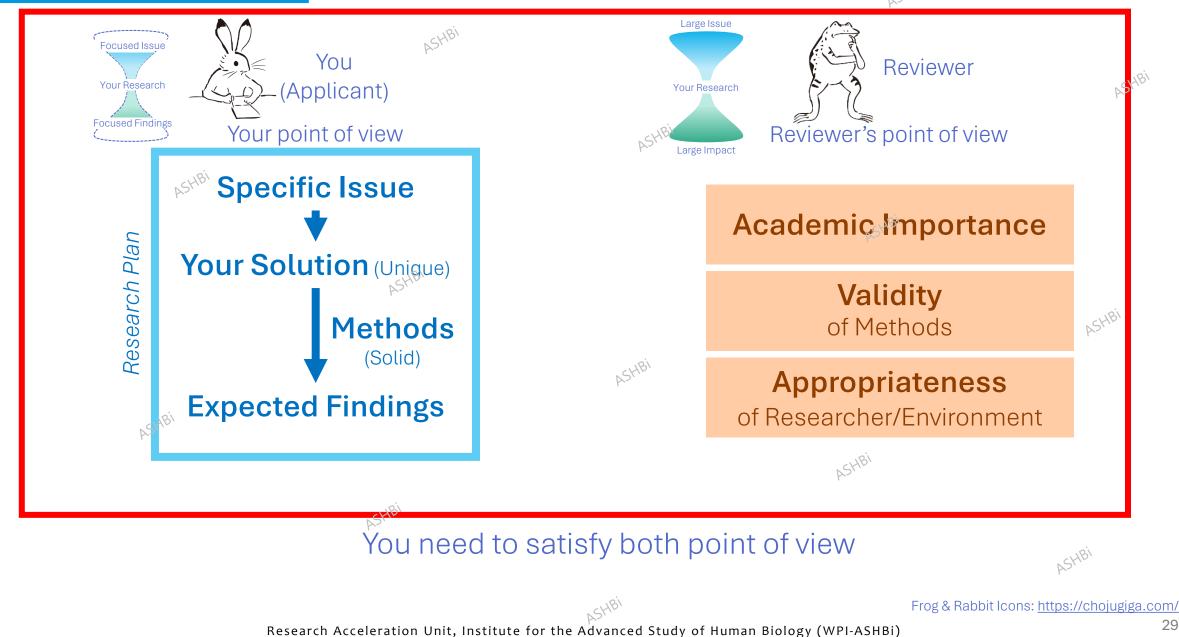
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Frog & Rabbit Icons: https://chojugiga.com/

You need to connect your viewpoint with the reviewer's viewpoint

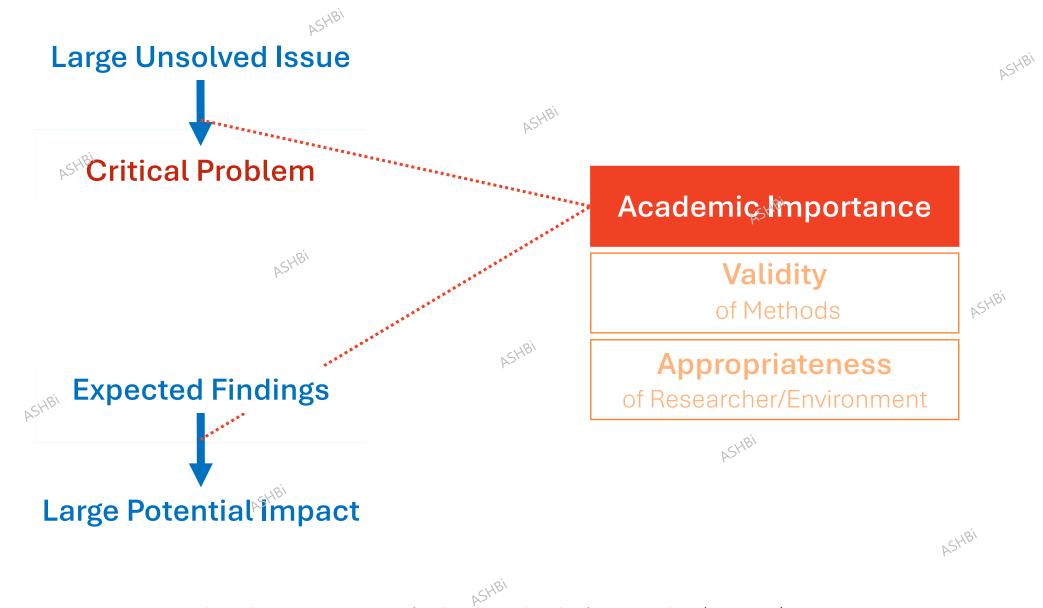
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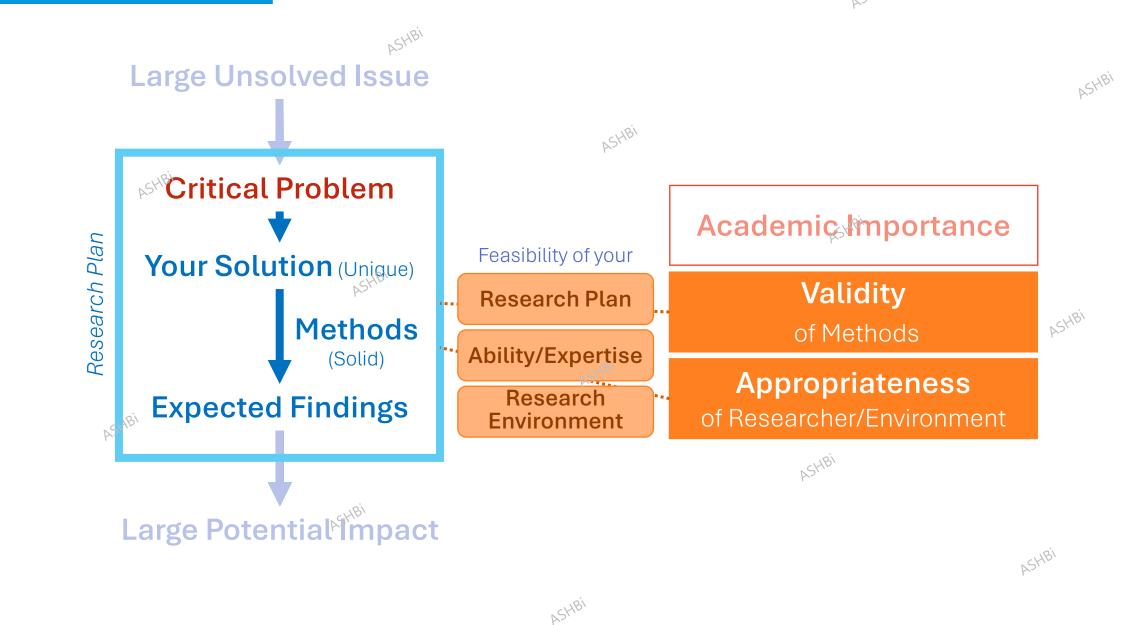
Academic Importance: Why should others listen to your story?

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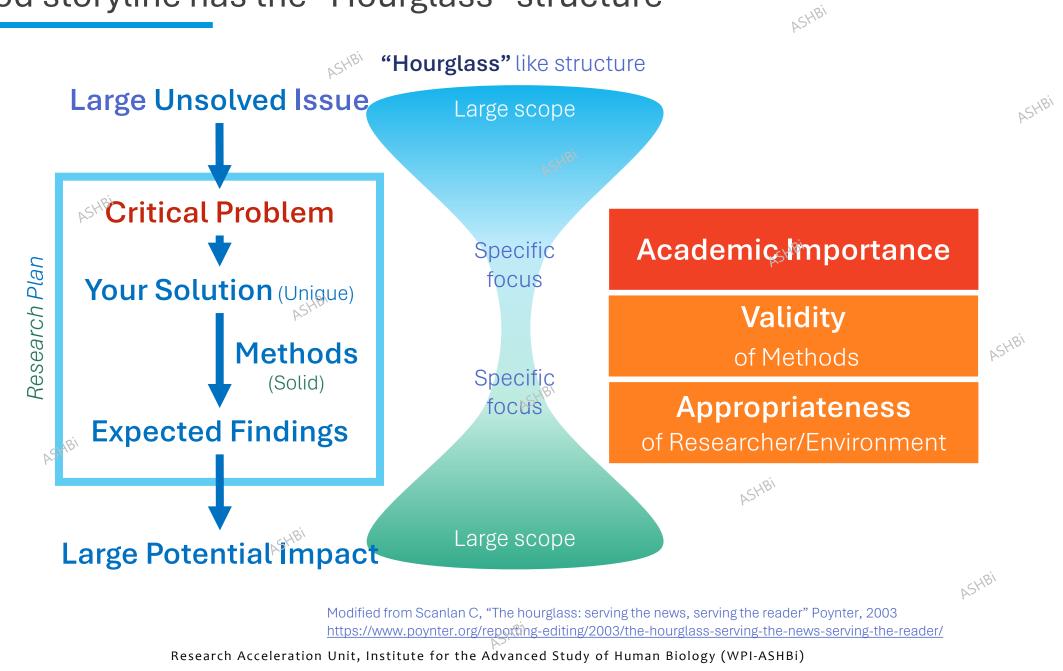


Validity & Appropriateness: Why is your plan feasible?

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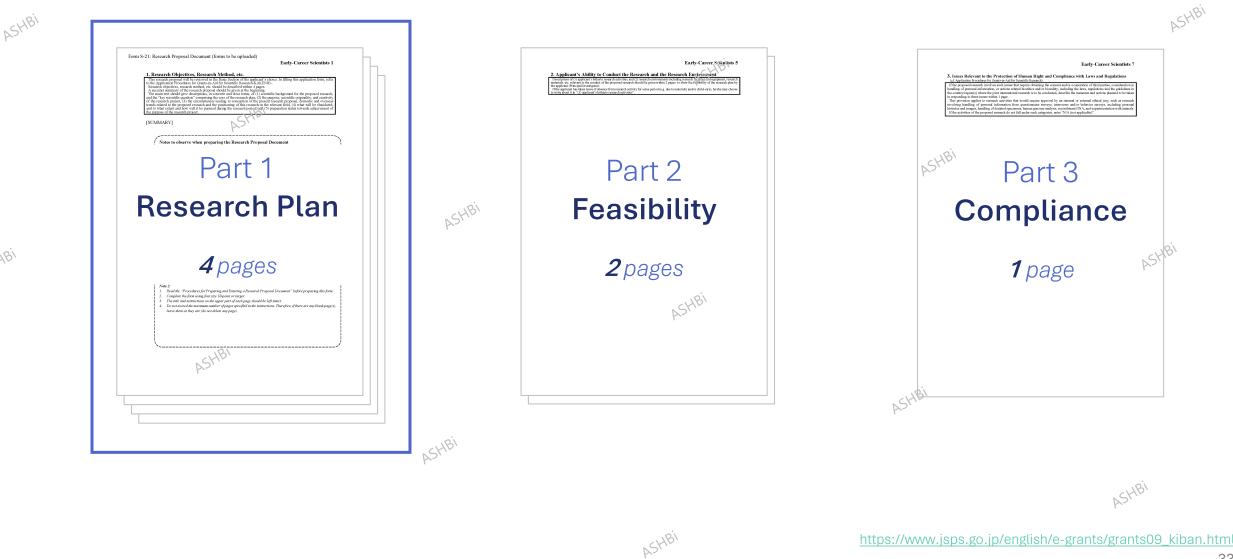
Good storyline has the "Hourglass" structure



Addressing the storyline into your proposal format

Your storyline should be explained in Part 1

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Usually, proposals are structured to follow the instruction

If you simply follow the instruction, "Large Potential Impact" will not be explained

1. Research Objectives, Research Method, etc.

This research proposal will be reviewed in the Basic Section of the applicant's choice. In filling this application form, refer to the Application Procedures for Grants-in-Aid for Scientific Research-KAKENHI-.

Research objectives, research method, etc. should be described within 4 pages.

A succinct summary of the research proposal should be given at the beginning.

Moved from (3)

The main text should give descriptions, in concrete and clear terms, of (1) scientific background of the proposed research, the circumstances reading to the conception of the proposed research, and the "key scientific question" comprising the core of the research plan, (2) the purpose. scientific originality, and creativity of the research project, (3) domestic and overseas trends related to the proposed research and the positioning of this research in the relevant field, (4) what will be elucidated, and to what extent and how will it be pursued during the research period, and (5) preparation status towards achievement of the purpose of the research project.

Sample Proposal (using last year's format)

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Not

specified

	Early-Career Scheetins 1	Early Career Scheelen 2 []. Research Objectives, Research Medical, etc. (continued lines for previous page)]	Early Carsor Schatters 3 [] Research (Opercises, Research Medical, str. (continued from the previous papel)	Early Caroor Scientists #
	1. Research Objectives, Research Method, etc. This mean bayes of the reverse in the back because of propheat values. In filing this application from, efter to the Application Former Section 2014 (1994)	(2)	(3)	Methods
SHBI	SUMMARY		(4)	(4) Preliminary Data
	Graphical	(3)	ASHBI	Subserve requests for definence a basis quel that september 2019 (1977) "Reg) basished beause of a long term have growth model and analysis of species and also specific september of term growth. Topological and the specific september of term growth. Topological and the specific september of term growth and term of the specific section of the specific september of term growth and term of the specific sections of the specific of the terms had to be the specific section of the specific sections of the specific section of the section of the specific sections of the specific section with all sections in the specific section of the specific section of the specific section of the specific section of the specific section of the specific section of the specific section performance of the specific section of the specific section of the specific section of the specific section of the specific section of the specific section of the specific section of the specific section of the specific section of the specific section of the specific section of the specific section of the specific section of the speci
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However, reviewers need to evaluate your "Large Potential Impact"

"Large Potential Impact" is clearly shown as one of the assessment criteria

1. Research Objectives, Research Method, etc.

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The main text should give descriptions, in concrete and clear terms, of (1) scientific background of the proposed research, the circumstances leading to the conception of the proposed research, and the "key scientific question" comprising the core of the research plan, (2) the purpose, scientific originality, and creativity of the research project, (3) domestic and overseas trends related to the proposed research and the positioning of this research in the relevant field, (4) what will be elucidated, and to what extent and how will it be pursued during the research period, and (5) preparation status towards achievement of the purpose of the research project.

Rating Element: Academic Importance

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- (1) Academic Importance of the Research Proposal
 - Is the research proposal an important research project that should be promoted from a scientific perspective?
 - Is the "key research question or issue" comprising the core of the research project clearly stated? Is it original and creative?
 - Does the research proposal clearly show the circumstances leading to this research proposal, global research trends, and the positioning of this research within the relevant domain or field?

- By conducting the proposed research project, could we expect positive effects on broader fields, science and technology, the society or other areas?

You need to find a place to explain your "Large Potential Impact"

There are several places where you can explain your "Large Potential Impact"

1. Research Objectives, Research Method, etc.

This research proposal will be reviewed in the Basic Section of the applicant's choice. In filling this application form, refer to the Application Procedures for Grants-in-Aid for Scientific Research-KAKENHI-.

Research objectives, research method, etc. should be described within 4 pages.

A succinct summary of the research proposal should be given at the beginning.

Example #1

The main text should give descriptions in concrete and clear terms, of (1) scientific background of the proposed research, a circumstances leading to the conception of the **Example #2** h, and the "key scientific question" comprising the core of the research plan, (2) the purpose, scientific originality, and creativity (ine research project, (3) domestic and overseas trends related to the proposed research and the positioning of this research in the relevant field, (4) what will be elucidated, and to what extent and how will it be pursued during the research period, and (5) preparation status towards achievement of the purpose of the research project.

Sample Proposal (using last year's format)

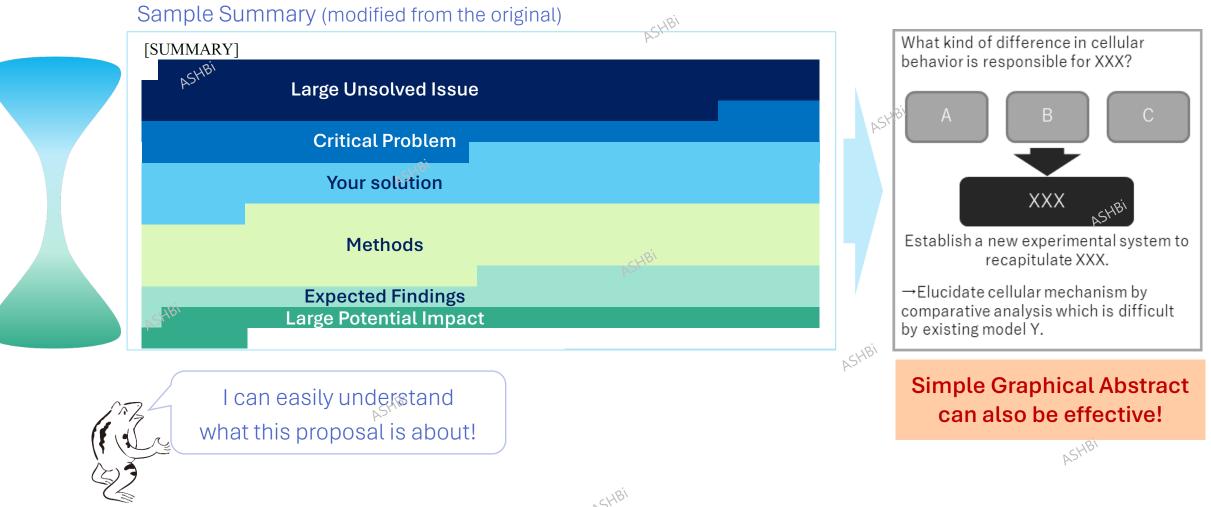
I. Research Objectives, Research Method, etc. The strength grand that is not set of this flat that show that of a spin set of the strength of the spin set of the sp		Example #2 3)	Methods
of this research in the relevant field, (1) where will be checking, and to solve a court and how will it he proved during the research period, and (1) proposation status to work addressment of the propose of the research project.	(2)	(4) What will be elucidated	(4) Preliminary
SUMMARY	(3)	Methods	Data
Graphical (1) Abstract	Comparison chart	Methods	per est aquitates à seguridance, long pareit à long sinne offices of access per la sans de la aquitaté est attraction est de source autorisation de la source de
Example #1 Topic Diagram	intending. It is then the left of that $F_{1,1}$ is the second of the second s	provem of (2) (2) ¹⁰ for addition spectral difference of the analysis of the additional difference of	(5)
(2) Purpose	Sensitive in the same by difficult of the bird sensitive in the term of the same difficult of the same diff	contributed a total 1. The combinance costs thing protein and proteins parents faild acquisipations with these incomparisons in a section diffusion, acceler from proposed in a confinemental standard for acquire the protein- sion diffusion of the protein diffusion diffusion of the standard of the acquire the standard standard diffusion of the standard diffusion of the acquire the standard diffusion of the standard diffusion of the standard diffusion and the standard diffusion of the	36

Effective summary can be prepared as your compact storyline

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Reviewer's first impression will be made here

By providing the storyline, reviewers can quickly capture the whole story



Other practical tips for an effective proposal

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Tip #1Grant Writing is different from Paper Writing

Tip #2 Organize your story using an outline framework

Tip #3Identify your "Key Scientific Question"

Tip #4 Visualize your plan using "figures & diagrams"

Tip #5 **Guide the eyes** with "Easy-to-understand" structure

Tip #6 Prepare/update your researchmap upon application

Tip #7**Obtain Third Person's View** via Feedback

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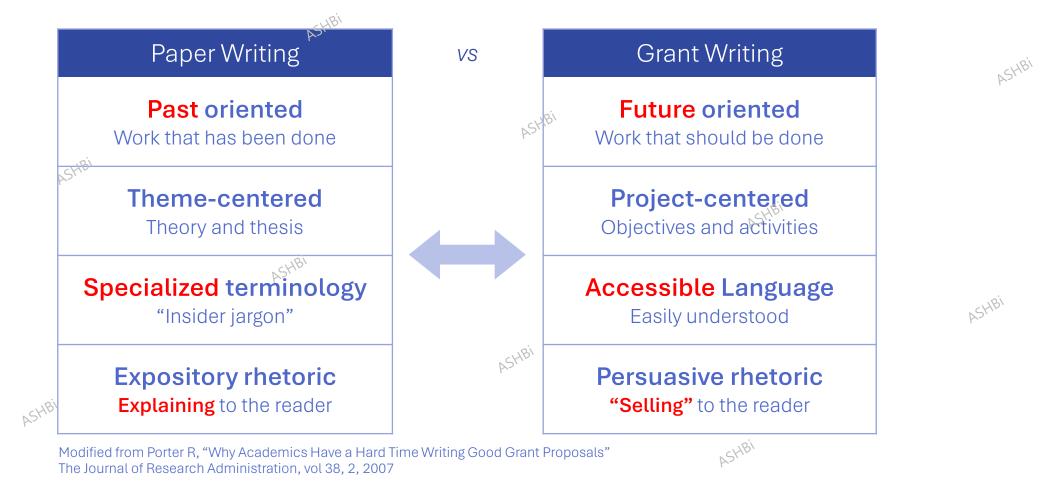
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Tip #1 Grant Writing is different from Paper Writing

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In Grant Writing, you need to sell "your future plan"

Tip #2 Organize your story using an outline framework

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Sample of an Outline Framework



Check to see if you have "every component" in your story

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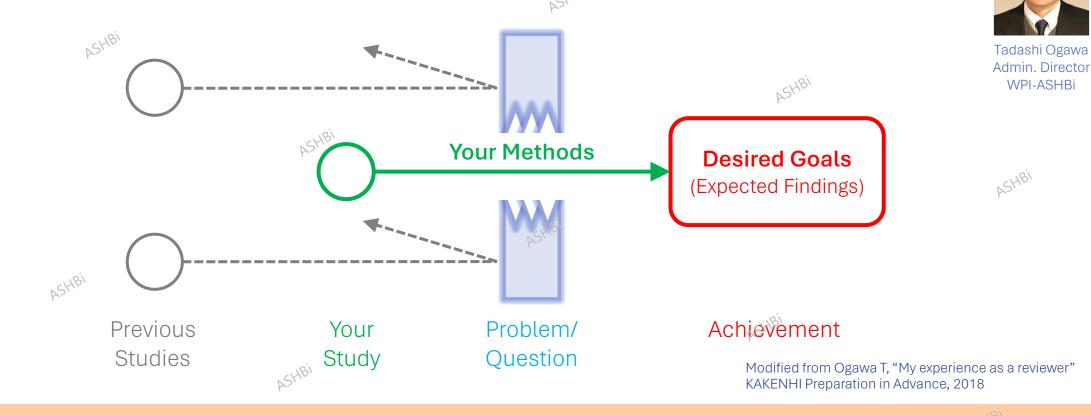
Tip #3 Identify your "Key Scientific Question"

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In KAKENHI, you need to clarify your "Key Scientific Question"

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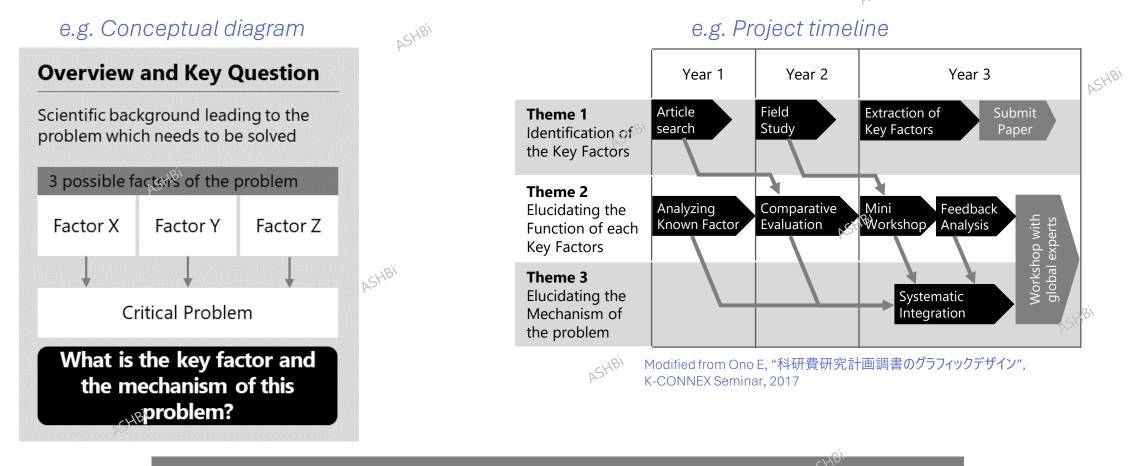
A good question/problem distinguishes your proposal from others! → It enhances the significance/originality of your study



Make a question of which your method is the "best way" to success while showing the "difficulty" in other methods

Tip #4 Visualize your plan using "figures & diagrams"

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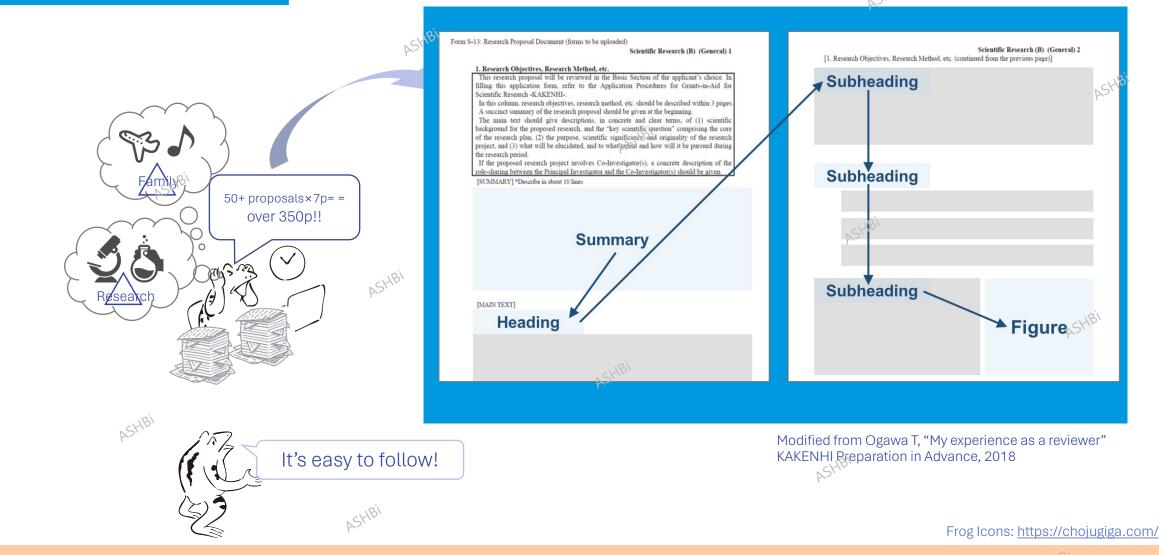


Make sure to prepare them in grayscale!

Visualizing your storyline will enable reviewers to capture you story at a glance

Tip #5 Guide the eyes with "Easy-to-understand" structure

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Place the summary, headers and figures effectively to help guide reviewers' eyes

Tip #6 Prepare/update your researchmap upon application

Image of y	our researchr	map individual page
		(Taro Kagaku)
ホーム 研究キーワート 所属学協会 Works(作品		委員歴 受賞 論文 MISC 書籍等出版物 講演 課題 産業財産権 学術貢献活動 社会貢献活動 メ:
Х=	∨ 基本情報	
マイボータル	▶ 所属	国立研究開発法人科学技術振興機構情報基盤事業部
研究ブログ	学位	立 修士(2012年3月)
資料公開	連絡分 ORCID IE	
共著者の一覧	>S	トです。
	NO MARIE	-
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Registration fields

#	Fields	#	Fields
1	Name	13	Papers
2	Researcher Number	14	Misc.
3	Affiliation	15 Presentations	
4	4 Degree 16 E		Books and Other Publications
5	Gender		Teaching Experience
6	Research Interests	18	Works ASHBI
7	Research Areas	19	Research Projects
8	Research History	20	Major Industrial Property Rights
9	Education	21	Social Activities
10	Awards	22	Academic Activities
11	Committee Memberships	A23B	Media Coverage
12	Professional Memberships	24	Others

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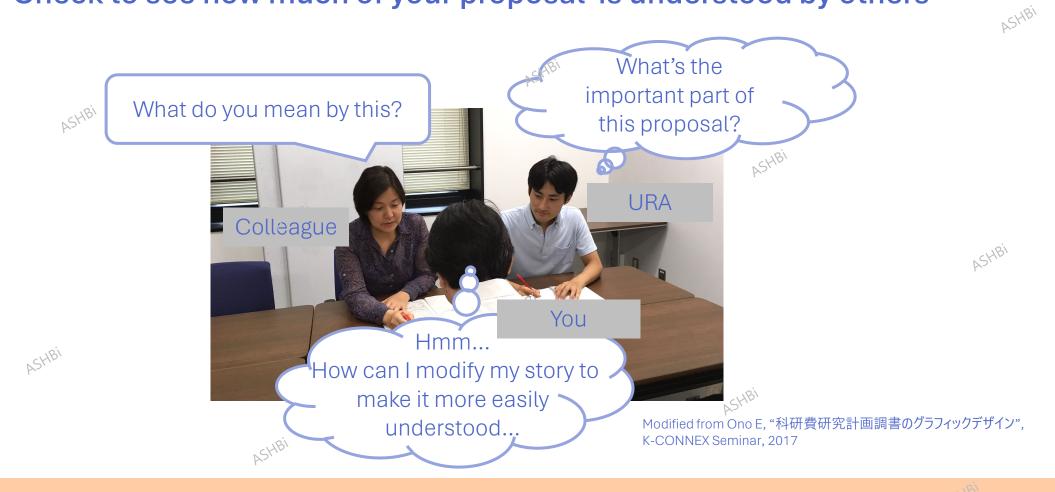
https://www.jsps.go.jp/file/storage/grants/j-grantsinald/38_jigyousetsumeikai/data/r05/siryou4.pdf

Many reviewers check researchmap when they evaluate Make sure to update your data once you submit

Tip #7 Obtain Third Person's View via Feedback

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Check to see how much of your proposal is understood by others



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The reader of your research story is the reviewer, not you

Acknowledgements

ASHBi Research Acceleration UnitTadashi OgawaSpyros GoulasHiromi InoueChieko Chiwatasti

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ASHBI ASHBI Appendix 1 ASHBI Instructions for the KAKENHI Research Proposal Document (sample: WAKATE) ASHBI [NOTE] Instruction for Kiban C is also the same

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1. Research Objectives, Research Method, etc.

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This research proposal will be reviewed in the Basic Section of the applicant's choice. In filling this application form, refer to the Application Procedures for Grants-in-Aid for Scientific Research-KAKENHI-.

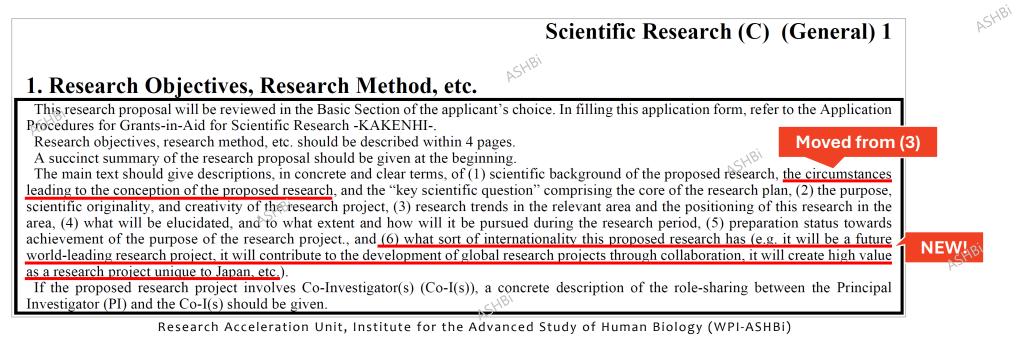
Research objectives, research method, etc. should be described within 4 pages.

A succinct summary of the research proposal should be given at the beginning?

The main text should give descriptions, in concrete and clear terms, of (1) scientific background of the proposed research, the circumstances leading to the conception of the proposed research, and the "key scientific question" comprising the core of the research plan, (2) the purpose, scientific originality, and creativity of the research project, (3) domestic and overseas trends related to the proposed research and the positioning of this research in the relevant field, (4) what will be elucidated, and to what extent and how will it be pursued during the research period, and (5) preparation status towards achievement of the purpose of the research project.

https://www.jsps.go.jp/file/storage/kaken_kiban_2024_g_2307/s-21_e.docx

Moved from (3)



📙 1. Research Objectives, Research Method, etc.

Note 1 :

ASHBI Notes to observe when preparing the Research Proposal Document

Read and understand the following important notes carefully before preparing your Research Proposal Document.

KAKENHI funding aims to promote scientific research in all fields based on original ideas of researchers. The grants provide financial support for creative and pioneering research projects that will become the foundation of social development.

In KAKENHI, research theme setting is at the applicant's discretion. As such, KAKENHI research proposals are evaluated based not only on their scientific significance, but also on their originality and creativity. Accordingly, in the Research Proposal Document forms for the "Scientific Research", "Early-Career Scientists" and "Research Activity Start-up" categories, applicants are required to state:

- What kind of key scientific guestion(s) is set against the relevant scientific background (such as research trends and new \checkmark developments)?
- What are the scientific originality and creativity of the proposal? \checkmark
- What was the circumstances leading to the conception of the research idea? \checkmark
- What are the research trends (domestic and overseas) and the positioning of this research in the relevant field? \checkmark

In the review process, research proposals will be screened either by Comprehensive Review or Two-Stage Document Review. Reviewers strive to grasp the essence of the proposed research through exchange of opinions among them, evaluate such merits as scientific significance, originality and creativity, and comprehensively place their judgments taking account of the feasibility of the research plan and the applicant's ability to conduct research.

In applying for KAKENHI, applicants are advised to take note of the above, and to read the Application Procedures for Grants-in-Aid for Scientific Research and the explanations of review criteria and the annotations in the application form in preparing their Research Proposal Documents, so that the scientific merits and other points in the research proposal will be appropriately conveyed to the ASHBI https://www.jsps.go.jp/file/storage/kaken_kiban_2024_g_2307/s-21_e.docx reviewers.

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1. Research Objectives, Research Method, etc.

Notes to observe when preparing the Research Proposal Document

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Note 2:

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- 1. Read the "Procedures for Preparing and Entering a Research Proposal Document" before preparing this form.
- 2. Complete the form using font size 10-point or larger.
- 3. The title and instructions on the upper part of each page should be left intact.

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4. Do not exceed the maximum number of pages specified in the instructions. Therefore, if there are any blank page(s), leave them as they are (do not delete any page).

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2. Applicant's Ability to Conduct the Research and the Research Environment



2. Applicant's Ability to Conduct the Research and the Research Environment

Descriptions of (1) applicant's hitherto research activities (including main research achievements), and (2) research environments including research facilities and equipment, research materials, etc. relevant to the conduct of the proposed research should be given within 2 pages to show the feasibility of the research plan by the applicant (Principal Investigator).

If the applicant has conducted any international efforts related to his/her research plan (such as his/her records of joint international research and research history in overseas institutions), they should be included as necessary in "(1) applicant's hitherto research activities". Also, if the applicant has taken leave of absence from research activity for some period, he/she may choose to write about it therein.

* Note:

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- 1. The description in this column is to explain the feasibility of the research plan. On citing research achievements (research papers, books, patents, invited talks, etc.) they should be given not as an exhaustive list but as supporting evidence to prove the applicant's ability to conduct the proposed research.
- 2. Sufficient information should be given so that the reviewers can identify the research achievements.
- 3. (In the case of a research paper, for example, the relevant information, including the title of the paper, the author(s), the title and the volume of the journal, the publication year, and the pages of the article should be given; in the case of a book, the bibliographic and other information should be provided.) The research papers that can be cited are only those already published or accepted for publication.

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NEW!

3. Issues Relevant to the Protection of Human Right and Compliance with Laws and Regulations

3. Issues Relevant to the Protection of Human Right and Compliance with Laws and Regulations

(cf. Application Procedures for Grants-in-Aid for Scientific Research)

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If the proposed research involves such issues that require obtaining the consent and/or cooperation of third parties, consideration in handling of personal information, or actions related bioethics and/or biosafety, including the laws, regulations and the guidelines in the country/region(s) where the joint international research is to be conducted, describe the measures and actions planned to be taken in responding to these issues within 1 page.

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This provision applies to research activities that would require approval by an internal or external ethical jury, such as research involving handling of personal information from questionnaire surveys, interviews and/or behavior surveys, including personal histories and images, handling of donated specimens, human genome analysis, recombinant DNA, and experimentation with animals. If the activities of the proposed research do not fall under such categories, enter "N/A (not applicable)".

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Appendix 2 Assessment Criteria for Document Review

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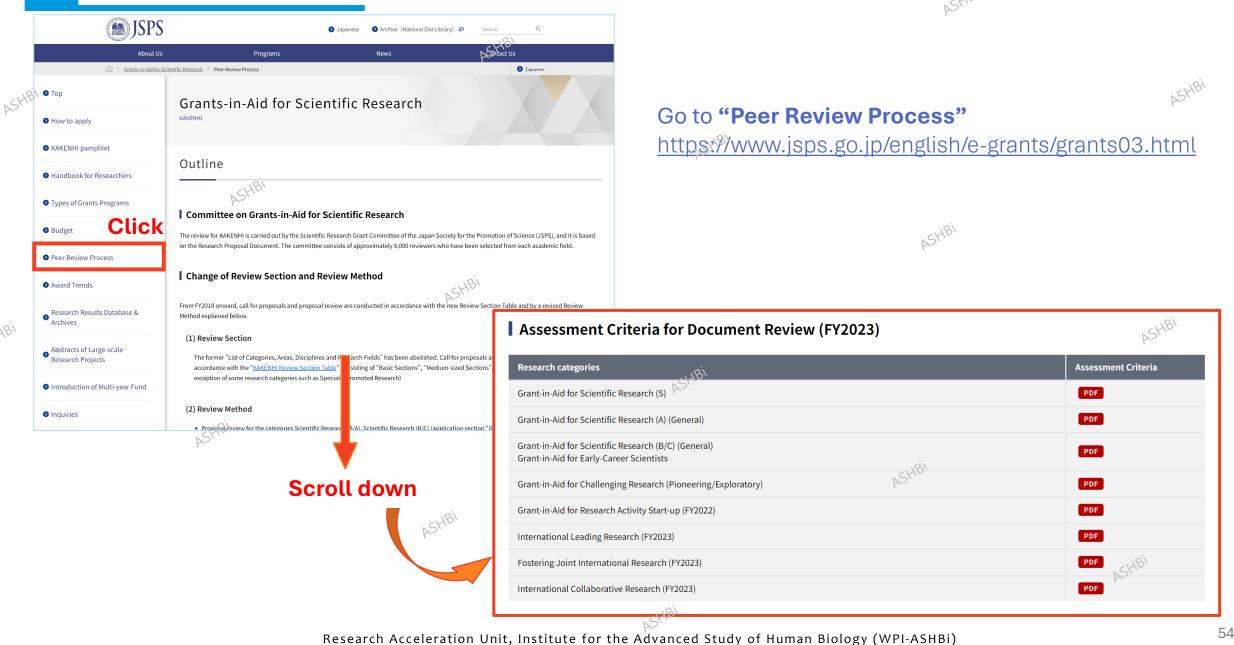
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Where to find your assessment criteria for your category



Assessment Criteria: Overview Scientific Research (B/C) (Application Section "General") and Early-Career Scientists Assessment Criteria for Document Review

Grants-in-Aid for Scientific Research (KAKENHI) aim to dramatically develop all academic research, from basics to applications, throughout all research fields. In the review for allotment of research funds, each reviewer is required to make appropriate and fair judgment as to whether the submitted research proposals could contribute greatly to this end.

The Basic Section will be applied for the review. Note that for Grant-in-Aid for Scientific Research (B), any Basic Section with a notably small number of applications will be reviewed jointly with other Basic Sections.

Instead of a panel review, the <u>Two-Stage Document Review method</u> will be implemented where the same group of reviewers will conduct document review in two stages to determine the adoption of research proposals.



In the <u>first stage review</u>, each research proposal will first be assigned an <u>absolute score for the</u> <u>individual rating elements</u> listed below to assess the content, plan, etc. of the research. Then a <u>relative</u> <u>overall score on a scale of 1 to 4</u> will be assigned.

Note that, in the absolute evaluation for each rating element, if you assign a score of "2—Marginal" or "1—Poor," you will be asked to select which item of the rating element was considered "Marginal" or "Poor," and to give the reason for such judgment. The items selected here will be disclosed to unsuccessful applicants who have made prior request for disclosure of the results of the first stage review.

In the second stage review, the <u>same group of reviewers will assess the research proposals that</u> <u>qualified for the second stage review</u> based on the results of the first stage document review, and <u>assign new scores for the second stage</u>. Here, <u>you should check the review comments (for the first stage) etc. made by all the reviewers assessing the same research proposal</u>, and assign a score based on your own insight.

The adoption of research proposals and allocation of research funds will be determined based on these scores, etc.



In conducting the review, you do not necessarily have to give high scores to research proposals that marked high scores in all of the individual elements. You are asked to conduct appropriate assessments so as to discover significant research projects over a wide range and enable the progress of scientific research while giving consideration to the diversity of research such as characteristics of the fields.

Note that you must not conduct reviews of research proposals submitted by any research team consisting of researchers whom you have vested interests.

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Assessment Criteria: 3 Rating Elements

[Rating Element 1] Academic Importance of the Research Proposal

(1) Academic Importance of the Research Proposal

- Is the research proposal an important research project that should be promoted from a scientific perspective?

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nttps://www.isps.go.ip/english/e-grants/data/2023/r5hvoutei03 en general.pdf

- Is the <u>"key research question or issue</u>" comprising the core of the research project clearly stated? Is it <u>original and creative?</u>
- Does the research proposal clearly show the <u>circumstances leading to this research proposal</u>, <u>global research</u> <u>trends</u>, and the <u>positioning of this research</u> within the relevant domain or field?
- By conducting the proposed research project, could we expect positive effects on broader fields, science and technology, the society or other areas?

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Assessment Criteria: 3 Rating Elements

[Rating Element 2] KARING Validity of the Research Method

(2) Validity of the Research Method

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- Is the research method, etc. specific and appropriate to achieve the research objective? Also, are the research expenditures consistent with the research plan?

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- Is the state of preparation appropriate to achieve the research objective?

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Assessment Criteria: 3 Rating Elements

[Rating Element 3] Appropriateness of Ability and Research Environment to Conduct Research

- (3) Appropriateness of Ability and Research Environment to Conduct Research
 - Judging from the research activities, etc. conducted over the years, <u>does the applicant possess sufficient</u> <u>ability to carry out the research plan?</u>

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nttps://www.jsps.go.jp/english/e-grants/data/2023/r5hyoutei03_en_general.pdi

- Has the applicant secured a research environment that he/she needs to conduct the research plan including research facilities, equipment, and research materials?

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Assessment Criteria: First Stage Review

[Overall Scores in the First Stage Review]

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To determine the adoption of each research proposal, make a comprehensive judgment focusing on the rating elements (1) through (3) above, and assign an overall score on a scale of 1 to 4 in accordance with the scoring distribution shown in the right column in the table below. (This may not be the case if you are asked to review a small number of research proposals.)

- If you have "vested interests" in a research proposal, enter the reason in the "Reason for Vested Interests" column.
- Also note that <u>"The Status of Application and Acquisition of Research Grants" and "Issues Relevant to Human Rights Protection and Legal Compliance</u>" columns in the research proposal document are not to be considered for the overall score given in the document review. As such, you should assign the overall score based on each of the other columns, etc. Please check the section iii. Points to be Noted on how to handle "The Status of Application and Acquisition of Research Grants" and "Issues Relevant to Human Rights Protection and Legal Compliance" columns in the review process.

Assessment Criteria: First Stage Review

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[Review Comments in the First Stage Review]

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In the first stage review, you must give your review comments in the "Review Comments" column for every research proposal, focusing on the strengths and weaknesses of each research proposal Note that you will not be required to provide review comments in the second stage review. The review comments will be disclosed to other reviewers to help each reviewer gain better understanding on the research proposals when assigning new overall scores in the second stage review.

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Assessment Criteria: Second Stage Review

[Overall Scores in the Second Stage Review]

- To determine the adoption of each research proposal that qualified for the second stage review based on the results of the first stage document review, make a comprehensive judgment focusing on the rating elements (1) through (3) above. Check also the review comments, etc. provided by all reviewers who are reviewing the same research proposal. Then assign an overall score on a scale of 1 to 4 in accordance with the scoring distribution shown separately as indicated in the right column in the table below.
 - Note that research proposals that were ranked close to the planned adoption threshold as a result of the first stage document review, and research proposals that were assigned extremely low scores by certain reviewers will also be considered when determining the eligibility for the second stage review.
 - Also note that "The Status of Application and Acquisition of Research Grants" and "Issues Relevant to Human Rights Protection and Legal Compliance" columns in the research proposal document are not to be considered for the overall score given in the review. As such, you should assign the overall score based on each of the other columns, etc. Please check the section iii. Points to be Noted on how to handle "The Status of Application and Acquisition of Research Grants" and "Issues Relevant to Human Rights Protection and Legal Compliance" columns in the review process.

Assessment Criteria: Other Evaluation Items (Research Expenditure)

Validity of Research Expenditures

In order to ensure effective and efficient allocation of KAKENHI funding, please <u>consider the criteria listed</u> below with respect to the validity and necessity of research expenditure. If you find a flaw in the content of the research expenditure and think that the sufficiency rate should be reduced, assign a "x" to the research proposal. The sufficiency rates for research proposals that were marked "x" by more than one reviewer will be set below the average sufficiency rate.

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- -Is the content of research expenditure reasonable and can we expect that the research expenditure will be used effectively?
- -Are items genuinely necessary for the implementation of the research plan properly budgeted, such as costs for purchasing equipment?
- -If any of the expenditure categories (equipment costs, travel expenses, or personnel cost/honoraria) exceeds 90% of the total expenditure, can we expect that the research expenditure will be used effectively for the implementation of the research plan?

Reference: Evaluation of Challenging Research



Grants-in-Aid for Scientific Research (KAKENHI) aim to dramatically develop all academic research, from basics to applications, throughout all research fields. In the review for allotment of research funds, each reviewer is required to make appropriate and fair judgment as to whether the submitted research proposals could contribute greatly to this end.

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Challenging Research (Pioneering/Exploratory) is intended to support research plans that aim at radically transforming the existing research framework and/or changing the research direction and have the potentials of rapid development based on innovative ideas. (The *Exploratory* category encompasses research plans that are of highly exploratory nature, or are in the budding stage.) This category has a distinctly different character from these of other research categories such as Scientific Research or Early-Career Scientists.

Challenging Research targets research projects that have the potential to radically transform the existing research framework and/or change the research direction—for example, potentials to discover and pursue new principles, reexamine academic concepts and frameworks, or make significant changes in the mindset or implement innovative methodologies, etc. that may bring breakthroughs in research. Accordingly, reviewers are to conduct the reviews with focus on the significance of the research as a "challenging research."

In addition, from the viewpoint of confirming the feasibility of such "Challenging Research," examine the applicant's ability to carry out the research by checking his/her research track records, content of research activities, etc. However, if the proposal contains a description on the research achievements, do not make your judgment based on the amount of information.

In the review of Challenging Research, the Medium-sized Section will be applied as the review section. In addition, a Generative Research Fields Review Division may be established as necessary apart from the Review Section table for a limited period of time, especially for areas that are considered to be in high academic need. Also, for the review of *Pioneering*. The review method will be a Comprehensive Review in which all reviewers will first conduct document review on all research proposals, then the same reviewers will conduct discussions from a broad perspective on each research proposal in the panel review. For the review of *Exploratory*, the Two-Stage Document Review method will be implemented instead of a panel review, where the same group of reviewers will conduct document review in two stages to determine the adoption of research proposals.

Note that if there is a large number of applications, a Preliminary Screening will be conjugated in order to narrow down to the number of projects appropriate for all reviewers to conduct do the nent review, and each application will be assigned a relative overall score on a scale of 1 to 5.

In the document review for *Pioneering*, each research proposal will first be assigned an absolute score on a scale of 1 to 3 based on the rating elements to determine the validity of the proposal a challenging research. Next, taking into consideration the rating elements to assess the content of the research plan, a relative overall score on a scale of 1 to 4 will be assigned.

In the panel review, reviewers will conduct discussions, taking into consideration, as appropriate, the raw scores, etc. of the overall scores of the document review, and determine the adoption of research proposals and allocation of research funds. The proposed budgets will be respected to the maximum

Kei Emphasis is on the **"Significance"** as a **"Challenging Research"**

Challenging Research targets research projects that have the potential to radically transform the existing research framework and/or change the research direction—for example, potentials to discover and pursue new principles, reexamine academic concepts and frameworks, or make significant changes in the mindset or implement innovative methodologies, etc. that may bring breakthroughs in research. Accordingly, reviewers are to conduct the reviews with focus on the significance of the research as a "challenging research."

In addition, from the viewpoint of confirming the feasibility of such "Challenging Research," examine the applicant's ability to carry out the research by checking his/her research track records, content of research activities, etc. However, if the proposal contains a description on the research achievements, do not make your judgment based on the amount of information.

In the review of Challenging Research, the Medium-sized Section will be applied as the review section. In addition, a Generative Research Fields Review Division may be established as necessary apart from the Review Section table for a limited period of time, especially for areas that are considered to be in high academic need. Also, for the review of *Pioneering*, The review method will be a Comprehensive Review in which all reviewers will first conduct document review on all research proposals, then the same reviewers will conduct discussions from a broad perspective on each research proposal in the panel review. For the review of *Exploratory*, the Two-Stage Document Review method will be implemented instead of a panel review, where the same group of reviewers will conduct document review in two stages to determine the adoption of research proposals.

https://www.jsps.go.jp/file/storage/kaken_e_grants03_2022/r5hyoutei04_en_challenging.pdf



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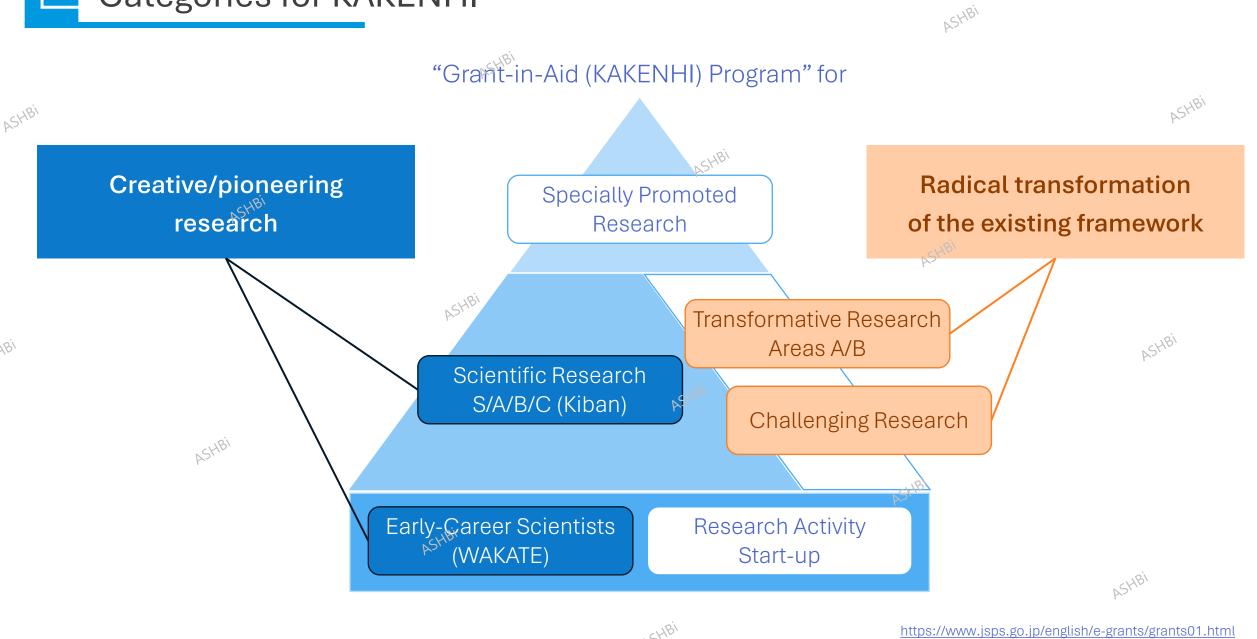
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https://www.jsps.go.jp/english/e-grants/grants01.html

Restriction on Parallel Grant Application

If you wish to apply for multiple gategories, check the restriction chart before application

Example of an restriction chart (excerpt from the original chart)

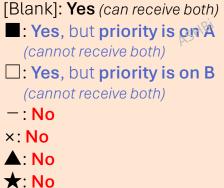
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(1-1) Type "Principal Investigator (New Proposal/Continued) (Column A) \rightarrow Principal Investigator (Column B)"

		Colum	e or	Specially Promoted Research	Scientific Research (S)	Scientific Research (A)	Scientific Research (B)	Scientific Research (C)	Early-Career Scientists (First Time)	Early-Career Scientists (Second Time)*1		Transformative Research Areas (A)*3	SHBI	Transformative	Research Areas (B)	Challenging	Research	Fostering Joint International Researc (B)*4	
Already ha	velBi		Not	Spec	Scient	General	General	General	Early-	Early- (Se	Administ- rative Group	Planned Research	Publicly Offered Research	Administ- rative Group	Planned Research	Pioneering	Exploratory	⁻ ostering Joi	
or have ap	plied f	or		New Proposal	New Proposal	New Proposal	New Proposal	New Proposal	New Proposal	New Proposal	New Proposal	New Proposal	New Proposal	New Proposal	New Proposal	New Proposal	New Proposal	New Proposal	
Column A			\geq	PI	PI	PI	PI	PI	PI	PI	PI	PI	PI	PI	PI	PI	PI	PI	ASHBI
	General	New Proposal	PI		×	×	_	×	×										1
Scientific Research	General	Continued	PI			SHBI													
(B)	Overseas Scientific Investigation	Continued	PI			*	*	*											
	Generative Research Fields	Continued	PI																
	General	New Proposal	PI		×														
Scientific Research (C)		Continued	PI					—				SHR	5						
	Generative Research Fields	Continued	PI																
68000		New Proposal (First Time)	PI		×	×	×	×	—	—						×	×		
Early-Career Sci	ontists	New Proposal (Second Time)*1	PI																
Early-Carter Ser	entists	Continued (First Time)	Ы						_	_								<u></u>	ji ji
		Continued (Second Time)*2	PI						-	—								~~ <u>~</u> ~	
	Pioneering	New Proposal	PI		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	BI					×	×	×						-
Challenging		Continued	PI		ASM														-
Research	Exploratory	New Proposal	PI																_
		Continued	PI														—		

Can you apply for the "Column B" category?

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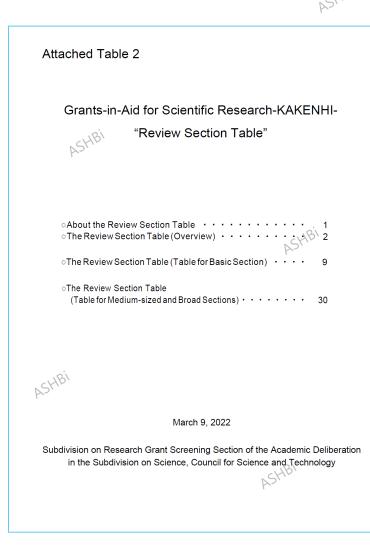
Original chart https://www.jsps.go.jp/file/storage/kaken_kiban_2024_g_2307/table_of_restriction_e.pdf

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Review Section Table

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You are to select "one" review section from the chart which suits you the most



For the "Basic Sections" below, the reviewers may consist of experts from different Medium-sized & Broad Sections

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[Basic sections may be presented in plural Medium-sized and Broad Section]

•			-	
Basic Section Item	Basic Section Description	Medium-sized Sections corresponding Basic Sections	Broad Sections corresponding Basic Sections]
02090	Japanese language education-related	2, 9	А	
02100	Foreign language education-related	2, 9	А	
80010	Area studies-related	4, 6	А	1
80020	Tourism studies-related	4, 7, 8	А	1
80030	Gender studies-related	4, 6, 8	А	. ct
80040	Quantum beam science-related	14, 15	В	A.
SHB90010	Design-related	1, 23, 61	A, C, J	
90020	Library and information science, humanistic and social informatics-related	2, 62	А, Ј	
90030	Cognitive science-related	10,61	A, J	
90110	Biomedical engineering-related	90	D, I	1
90120	Biomaterials-related ASA	90	D, I	
90130	Medical systems-related	90	D, I	1
90140	Medical technology assessment-related	90	D, I	1
90150	Medical assistive technology-related	9.0	D, I	1

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Past Selection Results: Adoption Data (Numbers, Allocation)

From the chart, you can observe that the adoption rates are similar between "all" Review Sections

Acceptance rate for each broad sections (all category combined, FY2022 new adoptions)

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Section	Reseearch Fields	Applications	Accepted	Acceptance Rate	Composition
Α	Philosophy, Literature, History, Geography, Law, Political science, Economics, Sociology, Education, Psychology related fields	16,991	5,368	32%	21%
В	Algebra, Analysis, Condensed matter physics, Plasma science, Particle-/nuclear-/astro-physics, Earth and planetary sciece related fields	5,370	1,459	27%	6%
С	Mechanics of materials, Fluid engineering, Electrical and electronic engineering, Civil engineering, Architecture, Aerospace engineering, Social systems engineering related fields	7,019	1,865	27%	7%
D	Materials engineering, Chemical engineering, Nano/micro science, Applied condensed matter physics, Applied physics and engineering, Nuclear/earth resources engineering, Biomedical engineering related fields	5,562	1,359	24%	5%
Е	Physical chemistry, Organic chemistry, Inorganic/coordination chemistry, Polymers, Inorganic chemistry, Biomolecular chemistry related fields	4,187	1,040	25%	4%
F	Agricultural chemistry, Agricultural and evironmental biology, Forestry and forest products science, Agricultural economics and rural sociology, Veterinary medical science related fields	5,860	1,517	26%	62
G	Biology at molecular to cellular levels, Biology at cellular to organism levels, Biology at organismal to poppulation levels related fields	4,851	1,254	26%	5%
Н	Pharmaceutical sciences, Biomedical structure and function, Pathology and infection/immunology related fields	4,612	1,237	27%	5%
I	Oncology, Brain sciences, General internal medicine, Organ-based internal medicine, Internal medicine of the bio-information integration, Surgery of the organs maintaining homeostasis, Surgery related to bioogical and censory functions, Oral science, Society medicine, Sports sciences, physical education, Biomedical engineering related fields	28,818 SHBI	8,467	29%	34%
J	Information science and computer engineering, Human informatics, Applied informatics related fields	3,787	1,026	27%	4%
Κ	Environmental analyses and evaluation, Environmental conservation related fields	1,795	452	25%	2%
	Total	88,852	25,044	28%	ASHB1

Modified from https://www.jsps.go.jp/j-grantsinaid/27_kdata/data/r04/3-2_r4.pdf

Past Selection Results: KAKEN Database

ASHBI

From the website, you can search for past adopted projects for each Review Sections

ASHBI

Search Research Projects Search Researchers Adopted Project Data FY2022 (part) have b Adopted Project Data FY2022 (part) have b		P
KAKEN Grants	ASHBI	
Grants-in-Aid for Scientific Research Database	3) Press "Search" to check adopted projects. Title, Investigator, Outline can be found	
from the Grants-in-Aid for Scientific Research(KAKENHI) Program. This system is hosted by the National Institute of Informatics (NII) in cooperation with MEXT and 1) Press "Advanced Search" to open search criteria	ASHBi	
We have enhanced the search function of the KAKEN database to make it easier to search for information on International Joint Research the search for information on International Joint Research the search	Tr Refine your search Tegetne your search Search Resolut: 18 results / Research Cetegory; Grant-In-Md for Early-Career Scientists AND Review Section/Research Fried: Basic Section Research Category Grant in Add To Cetegory; Grant-In-Md for Early-Career Scientists AND Project Type: Research Project Research Category Grant in Add To Cetegory I. C. Image: Hall Section 20 Sect	ASHBI
Research Project Title Project/Area Number Project Type Research Project International International Research Category Grant-in-Aid for Early-Career Scientists Allocation Type Single-year Grant	Research Category Research Category Research Category Research Category Allocation Type Review Section Research Category Relation National Center of Naurology and Psychiatry Induity year Fund Prologal Transettigation National Center of Naurology and Psychiatry National Center of Naurology and Psychiatry Research Lipbelt Chrome Research Category Research Category Research Category Research Category Research Lipbelt Chrome Research Category Research Category Research Category Research Category Research Category Research Lipbelt Chrome Research Category R	P.
Review Section/Research Field Basic Section 44020:Developmental biology-related Find Review Section/Research Field Research Institution Find Research Institution Find Research Institution Project Period (FY) 2022 FY of Project Total Cost (Overall) Find Research Field Find Research Field	Implementation Implementation Implementation Implementatio	
Project Status Adopted Granted Ceased Suspended Declined Discontinued Keywords Research Abstract	Canazava University 1 Principal Investigator 上庫 報知 ISCHTSRRRRA, NAR-PARTIN, Referenting Reference Casaka University 1 Principal Investigator 12 Exact University 2022-04-01 - 2022-03-01 Control Casaka University 1 Project Period (Pr) 2022-04-01 - 2022-03-01 Control Casaka University 1 Keywords Reference Reference • More Verset Verset Wetterbook-Execution University Reference • More Start 2042-02-02-02-02-02-02-02-02-02-02-02-02-02	
1	Project Type	

Appendix 4 Other useful tips

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Research Acceleration Unit, Institute for the Advanced Study of Human Biology (WPI-ASHBi)

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Questions you want to answer in your abstract

A good abstract will provide answers to reviewer's questions

- Which problem are you going to solve?
- Why is this problem important to science/society?
- What is the goal here (What will you find/achieve?)
- How will/What makes you manage to do it?
- What potential impact can your provide to science/society?

What's different in Paper Writing & Grant Writing?

ASHBI



Academic Writing Grant Writing Scholarly pursuit: Sponsor goals: ASHBI Individual passion Service attitude Past oriented: Future oriented: Work that has been done Work that should be done Project-centered: SHB Theme-centered: *Objectives and activities* Theory and thesis Persuasive rhetoric: Expository chetoric: Explaining to reader "Selling" the reader Impersonal tone: Personal tone: Conveys excitement *Objective, dispassionate* ASHBI Team-focused: Individualistic: Feedback needed Primarily a solo activity ASHBI. Few length constraints: Strict length constraints: Brevity rewarded^o Verbosity rewarded Specialized terminology: Accessible language: "Insider jargon" Easily understood

Academic Writing versus Grant Writing: Contrasting Perspectives

Porter R, "Why Academics Have a Hard Time Writing Good Grant Proposals", The Journal of Research Administration, vol 38, 2, 2007

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