The Applicant should clearly and succinctly summarize and describe the details of Scientific Research B (Generative Research Fields) -1 "Purpose of the Research" and Scientific Research B (Generative Research Fields) -3 "Research Plan and Method".

information provided. Itline of "Purpose of the control of the co	of the Deservab"	and "Dagaarah	Dlan and Matha	.d"	
iuine of "Purpose (or the Research	and "Research	Pian and Metho	oa"	

Scientific Research B (Generative Research Fields) – Outline 2 Outline of "Purpose of the Research" and "Research Plan and Method" (continued)

Reasons for applying under the Generative Research Field
The applicant should provide details, in a clear and specific manner, of the reasons why they are applying for a research project under the Generative Research Field and that this is more suitable than applying under any other research field shown on "List of Categories, Areas, Disciplines and Research Fields for FY20154 Grants-in-Aid for Scientific Research".
Major Research Achievements

Purpose of the Research

The applicant shall indicate the general nature of the research and the specific purpose of the research and with the existing academic literature referred to where necessary. In particular, details shall be given clearly with a focus on the following points. [Refer to the rules concerning the screening and assessment for Grants-in-Aid for Scientific Research.]

- 1) Scientific background for the research (e.g., domestic and overseas trends related to the research and positioning of the research; how the applicant has reached the concept based on his or her achievements in earlier research work; and details of achievements of past research work where the purpose of this project is to attain a greater level of knowledge in a similar area)
- 2) What will be elucidated and to what extent will it be pursued during the research period

rpose of the Research		
•		

Scientific Research B (Generative Research Fields) - 2 **Purpose of the Research (continued)**

Research Plan and Method

The applicant should provide details of the research plan and the methods for achieving the objectives of the research in a clear and specific manner. The plan should be divided into one for FY2015 and one for from FY2016 on. The literature should be referred to as needed and main points focused on. The plan and methods should indicate achievements through a discussion from different angles, such as the action in the event that the research does not progress as originally planned. Where the research plan is being implemented by a group, indicate the specific roles of the Principal Investigator and Co-Investigator (kenkyu-buntansha) of the research team (using figures, tables and other visual aids). In case the research plan is being implemented together with Co-Investigators (kenkyu-buntansha), include the necessity and rationality of the research group, and the relationship to the purpose of the research from the scientific viewpoint.

In addition, in order to clearly indicate the general view of the research team, state the roles of Co-Investigators (*renkei-kenkyusha*) and Research Collaborators [overseas co-researchers, company-employed researchers not eligible to apply for KAKENHI, other persons offering research support, such as technical experts and intellectual property specialists, graduate students and others (the names and the number of members may be stated)] as needed.

Moreover, if the research environment changes significantly halfway through the research period, due to personnel changes, retirements, etc., the applicant should also describe the way how the location of the implementation of the research is secured, research implementation methods, etc.

applicant should also describe the way how the location of the implementation of the research	an is secured, research implementation methods, etc.
Research Plan and Method	

Scientific Research B (Generative Research Fields) - 4 Research Plan and Method (continued)

Scientific Research B (Generative Research Fields) - 5 Research Plan and Method (continued)

State of Preparations for the Research Plan and Methods to Disseminate the Research
Results to Society and Citizens
The following points should be highlighted and stated in a clear and specific manner: 1) The current state of research environment, such as research facilities, equipment and materials that are to be used in conducting the research
2) The state of preparation for starting the research, such as coordination and contact with research members, in case there are Co-Investigator(s) (kenkyu-buntansha) (This should also be stated if appropriate in the case that there are Co-Investigators
(renkei-kenkyusha) and/or Research Collaborators.) 3) How the research achievements are disseminated to society and members of the public
Connection between the Research Plan and the Research Project which received a
Research Progress Assessment
• If the Principal Investigator of the current application received a research progress assessment in FY2013 or in FY2014, as a Principal Investigator of "Specially Promoted Research", "Scientific Research (S)" or "Grant-in-Aid for Young Scientists (S)", he or she should describe
it in this section. • The researcher should describe the connection between the research plan and the research project which received a research progress
assessment in this section (e.g. what kind of connection is there, how the researcher will advance the research which received a research progress assessment in concrete terms, etc.).

Research Achievements

The applicant should fill in the important **research papers/articles, books, industrial property rights and invited lectures** the Principal Investigator and Co-Investigator(s) ($kenky\bar{u}$ -buntansha) presented up to the present relating to the research in the sequence of publication from new to old with serial numbers assigned. Lines should be drawn between groups of research papers and others published in the same calendar year to separate them. (<u>The lines can be moved.</u>) Forthcoming research papers/articles in academic journals may be included, only if they have been accepted for publication.

In addition, if the need arises, it is also possible to fill in the recent research activities of the Co-Investigators (*renkei-kenkyusha*). If the recent research activities are filled in, double lines should be drawn to distinguish between them. (<u>The double lines can be moved.</u>) They should be filled in per researcher in the sequence of publication from new to old. (It is not necessary to draw lines between every year.)

Moreover, enter research achievements focusing primarily on achievements from 2010 onward. It is also acceptable to enter research paper or other achievement (up to ten items), which are closely related to the current research, or which are key ones that you published up to the present, even if they were published before 2010.

- 1) For published research papers/articles, state the title, the names of authors, name of the journal, referee reading (or not), volume, page numbers of the initial and final pages and the year of publication.
- 2) The abovementioned sequence of such items is not compulsory as long as all of the items are included. If there are many authors, only include several authors omitting others (if any authors' names are omitted, state the number of the authors and the order on the author list for the related researchers). The Principal Investigator should be marked with a double underline, Co-Investigator(s) (kenkyu-buntansha) with a single underline, and the Co-Investigator(s) (renkei-kenkyusha) with a dotted underline.

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2017 Oliwaid
2013

Research Achievements (continued)	
2012	
2011	
2011	

Recent Research Activities (continued)
2010
before 2009

Protection of Human Rights and	Compliance with Laws and Regulations (cf. Application
Procedures for Grants-in-Aid for Scientific Research)	•
Describe the measures and actions that you will take if you	our research involves compliance with the related laws and regulations (e.g. research arty, research requiring consideration for the handling of personal information and
research requiring efforts regarding bioethics and safety	measures when implementing the research plan). This applies to surveys, research, ethics committee inside and outside the research institution, such as for example
	ersonal information is involved, the use of provided samples, analysis study of the
human genome, recombinant DNA experiments, experiment	nts on animals, etc. Please indicate where this is not applicable.
D 11. 17	
Rationality and Justification of the R	esearch Costs
The applicant should explain the rationality, necessity an	d grounds for calculating the research cost to be stated on the following page and
The applicant should explain the rationality, necessity an thereafter, based on the scale and organization of the res	d grounds for calculating the research cost to be stated on the following page and search given in <i>Research Plan and Method</i> . Indicate the necessity of the cost (e.g.
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Scientific Research B (Generative Research Fields) - 12 (Unit: thousands of ven)

			(Unit: thousar	
Staten	nent of Costs for Equipment	Statement of Costs for Consun	nables	
See Proc	cedures for Preparing and Entering a Proposal for C	See Procedures for Preparing and Entering	a Proposal for	
	ic Research (B) (Generative Research Fields)"	Grant-in-Aid for "Scientific Research (
			Research Fields)"	
	Item and Specifications			
FY	(unit price \times qty) (institute where	Amount	Item	Amount
	equipment is installed)	1 11110 07110	200111	1 11110 0111
2015	equipment is instance)			
2013				

(Unit: thousands of yen)

Research (B) (Generative Research Fields)" Domestic Travel		Overseas Travel		Personnel Expenditure		Miscellaneo	NIIC	
FY	Expenses		Expenses		and Remunera	tion	Miscellaneous	
015	Item	Amount	Item	Amount	Item	Amount	Item	Amou
015								
		1 1		1		1		1

Application for Research Funding, Current State of Funding and Effort

Since examiners will refer to the information stated here in the second screening (collegial screening) when they discuss whether a research project will be able to be sufficiently implemented without causing unreasonable duplication or excessive concentration of research funding. It is necessary that the applicant correctly states the budget for the proposed research project that he or she receives and uses. The applicant should take into consideration the following points and enter (1) the research funding applied for, (2) the research funding to be provided and (3) other activities at the time of application by the Principal Investigator. Distinguish between sources of research funding by drawing a line, if there is more than one. For the exact method for filling in the necessary data, the applicant should verify the Procedures for Preparing and Entering a Proposal for Grant-in-Aid for "Scientific Research (B) (Generative Research Fields)".

- 1) Fill in *Effort* with a percentage of time allocation (%) necessary for the implementation of the research where the entire yearly working time is set at 100%.
- 2) State the title of the research project at the beginning of *Research funding applied for*.
- 3) In the case of a KAKENHI for "Scientific Research on Innovative Areas (Research in a proposed research area)", the applicant should state whether it is "planned research" or "invited research".
- 4) Include research funding to be competitively provided by the research institution to which the researcher belongs.

,		,			
(1) Research Funding	Applied for				
Funding system and name of	Title of the research project	Role	Budget for	Effort	Differences in details of research and
the research funding (research	(name of the Principal	(Principal	FY2015	(%)	reasons for additional application for a
		Investigator or	(throughout the	(%)	grant for the current research project
period and name of the funding	Investigator)	Co-Investigato	period) (Unit:		
organization)		r	Thousands of		(In the case of a Principal Investigator of a
		(kenkyu-bunta	yen)		KAKENHI, the amount to receive for the
		nsha))			whole research period)
Research project for					
which a grant is applied					
Scientific Research (B)		Principal			
(Generative Research		Investigator			
Fields)		investigator			
(2015)			()		(total budget in thousands of yen)
(2015)			, ,		(total badget in thousands of year)
		1	i	1	1

Application for Research Funding, Current State of Funding and Effort (continued) (2) Research Funding to be Provided						
Funding system and name of	Title of the research project	Role (Principal	Budget for FY2015	Effort	Differences in details of research and	
the research funding (research	(name of the Principal	(Principal Investigator or	(throughout the	(%)	reasons for additional application for a grant for the current research project	
period and name of the funding	Investigator)	Co-Investigator of	neriod) (Unit:			
organization)		r	Thousands of		(In the case of a Principal Investigator of a	
		(kenkyu-bunta			KAKENHI, the amount to receive for the whole research period)	
		nsha))			•	
(3) Other Activities]				
	research and educational ac					
	resaid research activities being	100				
Total	(0) 1(2) 1			100		
Total of the effort in (1)), (2) and (3) above	(%)				