Proposal for Grant-in-aid (Outline)	

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

* The first stage of the screening (paper review) is carried out with only", this "the Proposal for Grant-in-aid (Outline)", "" and "", in

case. Therefore, when filling them, be sure that reviewers can sufficiently understand the research project only with the information provided.
Outline of "Purpose of the Research" and "Research Plan and Method"

Scientific Research C (Generative Research Fields) – Outline 2
Outline of "Purpose of the Research" and "Research Plan and Method" (continued)
Decree for analysis and a dec Commettee Decree Field
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 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
The applicant should fill in the major research achievements (up to five items) selected from the items written in Scientific Research C (Generative Research Fields) – 6"Research Achievements", The Principal Investigator should be marked with a double underline,
Co-Investigator(s) (kenkyu-buntansha) with a single underline, and Co-Investigator(s) (renkei-kenkyusha) with a dotted underline.

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	and expected results and		
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Scientific Research C (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 now the i	beation of the implementa	tion of the research is seen	ea, researen impiementat	ion memous, etc.
Research Plan and Method				

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

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 Descends Dlan and the Descends Duriest which received a
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) (kenkyū-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. (The lines can be moved.) 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. (The double lines can be moved.) 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.
2014 onward
2013
2012

Research Achievements (continued)
2011
2010
before 2009
Defote 2009

$\underline{Scientific\ Research\ C\ (Generative\ Research\ Fields) - 8}$

Research Funding	g Received	l and Achievement	ts
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State the achievements of funded research that is being effectively used for planning the current research from the grants that the Principal Investigator/Co-Investigator (<i>kenkyu-buntansha</i>) has received (including KAKENHI, research funding provided by his or her research institution, research funding paid by any ministry/office, local public organization, research promotion corporation, private corporation and any current research funding). Classify the grants into KAKENHI and others. The following should be taken into consideration: 1) For each research funding, state the research category (name of the system for research funding other than KAKENHI), period (fiscal year), title of the research project, whether the applicant is the Principal Investigator or Co-Investigator (<i>kenkyu-buntansha</i>), eligible costs (direct costs) of the research. Also give a clear statement of the research achievements and interim and after-the-fact assessment results (only to be made by the funding organizations). (If there are research progress assessment results for KAKENHI in FY2013 or in FY2014, they should be described in the section "Connection between the Research Plan and the Research Project which received a Research Progress Assessment" on Scientific Research B (Generative Research Fields) -5.) 2) The applicant should describe them and make a distinction by drawing a line between KAKENHI and other research funding.	

Scientific Research C (Generative Research Fields) -
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 your research involves compliance with the related laws and regulations (e.g. research
requiring the consent and the cooperation of the other party, 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,
experiments which require an approval procedure in an ethics committee inside and outside the research institution, such as for example
questionnaire surveys and interview surveys in which personal information is involved, the use of provided samples, analysis study of the
human genome, recombinant DNA experiments, experiments on animals, etc. Please indicate where this is not applicable.
Rationality and Justification of the Research Costs
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The applicant should explain the rationality, necessity and grounds for calculating the research cost to be stated on the following page and thereafter, based on the scale and organization of the research given in <i>Research Plan and Method</i> . Indicate the necessity of the cost (e.g.
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(Unit: thousands of yen)

Statement of Costs for Equipment See Procedures for Preparing and Entering a Proposal for Grant-in-Aid for			Statement of Costs for Consumables See Procedures for Preparing and Entering a Proposal for		
	"Scientific Research (C) (Generative Research Fields)"		Grant-in-Aid for "Scientific Research (C) (Generative Research Fields)"		
FY	Item and Specifications (unit price × qty) (institute where equipment is installed)	Amount	Item	Amount	
2015	oquipment is mounted)				

(Unit: thousands of yen)

FY	(C) (Generative Research Fields)" Domestic Travel Expenses		Overseas Travel Expenses		Personnel Exp	penditure eration	Miscellaneous	
	Item	Amount	Item	Amount	Item	Amount	Item	Amou
015								

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

Application for Research Funding, Current State of Funding and Effort (continued)											
(2) Research Funding to be Provided											
	Title of the research project	Role	Budget for	Effort	Differences in details of research and						
	(name of the Principal	(Principal	FY2015	(%)	reasons for additional application for a grant						
period and name of the funding		Investigator or	(throughout the	(70)	for the current research project						
organization)	investigator)	Co-Investigato	period) (Unit: Thousands of		(In the case of a Principal Investigator of a						
organization)		(kenkyu-bunta nsha))	yen)		KAKENHI, the amount to receive for the whole research period)						
(3) Other Activities	<u> </u>	1									
	research and educational act										
	resaid research activities being										
Total	coura research activities being	applicator of t	o oc randou.	100							
Total of the effort in (1)	(2) and (3) above			(%)							
Total of the choit iii (1)	, (=) (5) 40010	(/0)									