

(Form 1)

R&D Proposal

Project Focused on Developing Key Technology for Discovering and Manufacturing Drugs for Next-Generation Treatment and Diagnosis (Development of advanced manufacturing technologies for biologics) (Standalone)

Title of proposed R&D project	<i>Study on XXX</i>		
Name of Field/R&D Projects Being Solicited	<i>Establish highly efficient Japanese cell lines (2-1) Develop platform technologies for continuous manufacturing of biologics (2-2) Validate platform technologies for continuous manufacturing of biologics (2-3) Research into quality control methods for the practical application of continuous manufacturing (2-4) Develop cutting-edge technologies for biomanufacturing (2-5)</i>		
R&D period	<i>YYYY/MM/DD - YYYY/MM/DD</i>		
R&D category	<i>XXXX</i>		
R&D area	<i>XXX</i>	}	<i>Note: Enter in accordance with what you entered when you registered the e-Rad application data.</i>
R&D field	<i>XXX</i>		
Key words in R&D field	<i>XXX, XXX</i>		
Key words other than those in R&D field			
Name of Principal Investigator	<i>XXXX Mr. Yyyy Yyyyyy</i>		
Affiliated institution	<i>XXXX University</i>		
Address	<i>〒 XXX-XXXX</i>		
Tel	<i>XX-XXXX-XXXX</i>	FAX	<i>XX-XXXX-XXXX</i>
E-mail	<i>YYY@YY.jp</i>		
Department	<i>XXX Department, Faculty of XXX</i>		
Position	<i>XXX</i>		
Person in charge of accounting work	<i>XX XX</i>	Accounting department name, contact information etc.	<i>XX Section, Administration Department, XXXX University TEL: FAX: E-mail:</i>
Name of Co-Investigator※	<i>XXXX Mr. Yyyy Yyyyyy</i>		
Affiliated institution	<i>XXXX University</i>		
Address	<i>〒 XXX-XXXX</i>		
Tel	<i>XX-XXXX-XXXX</i>	FAX	<i>XX-XXXX-XXXX</i>
E-mail	<i>YYY@YY.jp</i>		
Department	<i>XXX Department, Faculty of XXX</i>		

Position	<i>XXX</i>		
Person in charge of accounting work	<i>XX XX</i>	Accounting department name, contact information etc.	<i>XX Section, Administration Department, XXXXUniversity TEL: FAX: E-mail:</i>

※ Add rows as needed in accordance with the number of Co-Investigators, etc.

Breakdown of costs for each fiscal year (Unit: 1,000 yen)

(Please do not include costs related to the engagement of young researchers in the breakdown.)

(1) Total (Enter the total contracted R&D costs for all participant institutions)

Main item		Sub items	FY2018	FY2019	FY2020	Total
Direct costs	1. Costs of goods	Equipment costs				
		Consumable item costs				
	2. Travel costs	Travel costs				
	3. Personnel costs/ services costs	Personnel costs				
		Services costs				
	4. Other	Subcontract costs				
		Other				
Indirect costs (In general, 30% of aforementioned direct costs)						
Total						

(2) Total [Enter the portion of (1) above that are related to contracted R&D costs of two-thirds contract research]

Only enter the below when an institution receiving two-thirds contract research costs is involved.

Main item		Sub items	FY2018	FY2019	FY2020	Total
Direct costs	1. Costs of goods	Equipment costs				
		Consumable item costs				
	2. Travel costs	Travel costs				
	3. Personnel costs/ services costs	Personnel costs				
		Services costs				
	4. Other	Subcontract costs				
		Other				
Indirect costs (In general, 30% of aforementioned direct costs)						
Total						

(3) Total [Enter the costs borne by the institution (corporate partner) of two-thirds contract research]
Only enter the below when an institution receiving two-thirds contract research costs is involved.

Main item	Sub items	FY2018	FY2019	FY2020	Total
Direct costs	1. Costs of goods	Equipment costs			
		Consumable item costs			
	2. Travel costs	Travel costs			
	3. Personnel costs/ services costs	Personnel costs			
		Services costs			
	4. Other	Subcontract costs			
		Other			
	Total				

Research Organization (Principal Investigator and Co-Investigator)

	Name (age) Researcher ID No.	Affiliated institution Department Position	Current professional Degree (final academic background) Responsibilities within each R&D project	FY 2018 research costs (Unit: 1000 yen)	Effort (%)
Principal Investigator	XXXX (XX) 98765432	XX University	XXX	X,XXX	XX
		Faculty of XXX XXX Department	Ph. D (XXX)		
		XXX	XXXXXX		
Co-Investigator	XXXX (XX) 98765432	XX University	XXX	X,XXX	XX
		Faculty of XXX XXX Department	Ph. D (XXX)		
		XXX	XXXXXX		
Total:	XXpeople		Total R&D costs	X,XXX	

3. Research achievements

- 1) For each Principal Investigator and Co-Investigator, select major papers and authors that have been published in academic journals, etc. (within the past 5 years) and list them in order starting from the most recent year. Circle those that are directly related to the proposed topic.
- 2) Note the acquisition and application status of patent rights or other intellectual property rights, and any policy recommendations that have been made as a result of the implementation of the research project (guiding principles or guidelines to which you have contributed, etc.).

• *Principal Investigator: XX XX*

<Paper / Author >

XM.Marusankaku, J.Aaaa, H.Bbbbb, A.Ccccc, Treatment of Hepatic....., Nature, 2015, 1,10-20

M.Marusankaku, T.Aaaa, A.Bbbbb, T.Ccccc, Risk factors for Fungal..., Nature, 2015, 2,17-26

<Acquisition and application status of patent rights or other intellectual property rights >

<Policy recommendations >

XXXXXX Guideline(issued by XX Academic Association XXXX [year])

• *Co-Investigator XX XX*

<Paper • Author >

XM.Kakukaku, T.Dddd, A.Eeee, T.Ffff, Study on Hepatitis....., Nature, 2015,12,32-40

M.Kakukaku, T. Dddd, A. Eeee, T.Ffff, Study on Malaria....., Nature, 2015,10,45-54

(Example of copying & pasting of research map text output)

Non-negligible collisions of alkali atoms with background gas in buffer-gas-free cells coated with paraffin

Applied Physics B-Lasers and Optics 122(4) 81-1-81-6, March 2016

Laser frequency locking with 46 GHz offset using an electro-optic modulator for magneto-optical trapping of francium atoms

Applied Optics 55(5) 1164-1169, February 2016

Atomic spin resonance in a rubidium beam obliquel

4. Status of research application, acceptance and effort

Note (1) the research costs currently being applied for (2) the research costs scheduled to be received and (3) other activities of the Principal Investigator for the application topic at the time of application, giving consideration to the points listed below. When noting this for multiple research costs, draw lines to demarcate the costs. For the specific notation methods and so on, check the Procedures for Preparing and Entering Research Proposal Document.

- 1) In the Effort column, note the percentage of researcher's time exclusively spent for the R&D activities concerned against the researcher's annual working hours.
- 2) At the beginning of the "Research costs currently being applied for", enter the application research project.

Note: You may enter line breaks as needed, but make sure the resulting text length is one page or less.

(1) Research funds/grants currently being applied for

Title of research funding program/ Research funds/grants (research period/ funding agency)	Title of research project (name of principal investigator)	Role (Principal Investigator or co-Principal Investigator) Amount expected to be allocated to applicant	Research costs for FY 2018 [amount for entire topic] (Unit: 1000 yen)	Effort (%)	Differences in research content and reason for applying for this application research project in addition to other research costs (Unit: 1000 yen)
<i>[Application research project]</i> <i>(2017 ~ 2019)</i>	<i>Experimental research on the correlation XX and XX (XXXX)</i>	Amount expected be allocated to applicant Total amount of the R&D project	6,000 [15,000]	30	Amount expected to be allocated to applicant Example) 6,000 x 3 years <i>(Total amount: 18,000)*</i>
<i>Grants-in-Aid for Scientific Research (KAKENHI)/ Challenging Research (Exploratory) (FY2017-FY2018, JSPS)</i>	<i>Investigative research on the dependence on XX of XX and XX(XXXX)</i>	<i>Principal Investigator</i>	Total amount for this research project 3,000 [10,000]	20	<i>The research is different in that it approaches the study from the perspective of XX, and conducting this research will promote comprehensive understanding.</i> <i>(Total amount: 5,000)*</i>
<i>FY 2017 XX Foundation research grant (2017 • XX Foundation)</i>	<i>xx and XX research (XXXX)</i>	<i>Co- Investigator</i>	1,000 [10,000]	10	<i>The research is different in that it approaches the study from the perspective of XX, and conducting this research will promote comprehensive understanding.</i> <i>(Total amount: 5,000)*</i>

Including receipt of already approved research costs; may be reinterpreted as necessary

(2) Research funds/grants scheduled to be received

Title of research funding program/ Research funds/grants (research period/ funding agency)	Title of research project (name of principal investigator)	Role (Principal Investigator or co-Principal Investigator)	Research costs for FY 2018 [amount for entire topic] (1000 yen)	Effort (%)	Differences in research content and reason for applying for this application research project in addition to other research costs (Unit: 1000 yen)

<i>FY 2016 XX Foundation research grant (XX Foundation, 2016)</i>	<i>Research on XX and YY (XXXX)</i>	<i>Principal Investigator</i>	<i>1,000 [1,000]</i>	<i>10</i>	<i>The research is different in that it approaches the study from the perspective of XX, and conducting this research will promote comprehensive understanding. (Total amount: 5,000)*</i>
<i>XX Project (AMED, 2017 - 2019)</i>	<i>Research on XX and YY (XXXX)</i>	<i>Co-Investigator</i>	<i>780 [10,000]</i>	<i>10</i>	<i>The research is different in that it approaches the study from the perspective of XX, and conducting this research will promote comprehensive understanding. (Total amount: 3,900)*</i>

* In the parentheses (), enter the total direct expenses for the entire R&D period.

(3) Other activities Effort: 20 %

5. Past research funds/grants received and resulting achievements

- 1) In this box, select the portion of the research results, etc. achieved as a result of the research costs received by the Principal Investigator and Co-Investigator up to now (research costs provided by an affiliated research institution, and research costs from an office or ministry, local government organization, research grant corporation, private sector company etc., including research costs currently being received) that have been used in the drafting of the current research plan, dividing them into the research costs for this financing system and other research costs, with consideration given to the following points.
 - For each research cost, note the research funding program name, period (fiscal year), research project title, whether for the Principal Investigator or the Co-Investigator, and the research costs (direct costs), and then briefly describe the research achievements and the results of interim and ex post evaluations (only if conducted by the institution allocating those research costs).
 - Be sure to distinguish the research costs for this funding system from other research costs.

(Example)

Name of financing system:

Period (FY): FY _____ ~ FY _____

Name of R&D project :

Principal Investigator or Co-Investigator:

R&D costs (direct costs): _____ (Unit: 1000 yen)

Research achievements and results of interim / ex post facto evaluation:

[Funding system]

(1)Basic research (A), 2009 ~ 2011, "Research on XX" Representative, 40,000 (1000 yen)

Achievements: ××××

(2)Basic research (B), 2009 ~ 2011, "Research on XX" Representative, 40,000 (1000 yen)

Achievements: ××××

[Other research costs]

(3)Basic research (B), 2009 ~ 2011, "Research on XX" Representative, 40,000 (1000 yen)

Achievements: ××××

(Example)

Annex 1

Main schedule for R&D

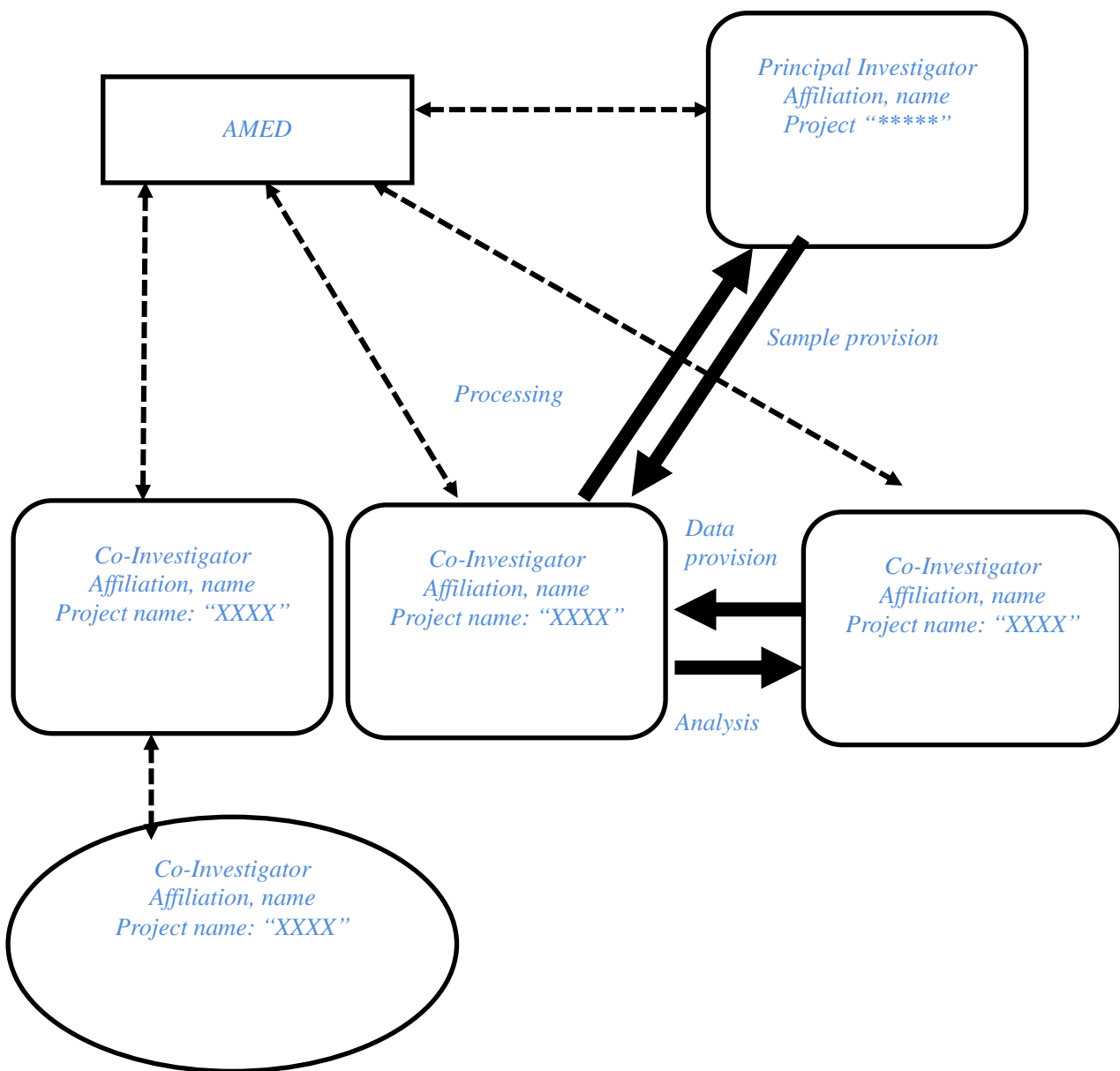
- Note the R&D issues that must be dealt with in order to achieve the objectives, as well as the period of execution.
※Milestones: Points of arrival or matters to be achieved that constitute turning points in the achievement in the R&D.
- Note the schedule for each item in a way that will be clearly understandable to the persons who will be in charge of conducting the research.
Note: The schedule should be one page or less.

Main schedule for R&D (roadmap)													
R&D item ※Milestone	Name of person in charge	1st year (FY2018)				2nd year (FY2019)				3rd year (FY2020)			
		1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
(1) Analysis of XX related gene manifestation • Establishment of assay system • Analysis of manifestation data													
(2)													
(3)													
(4)													
(5)													
(6)													
(7)													

Implementation System Diagram

Attach an implementation system diagram showing the Principal Institution and Subsidiary Institution organizations, frameworks, collaboration and cooperation organizations, etc. The diagram should clearly show the roles of each institution. Also note the frameworks and methods for R&D project administration, promotion and progress management, etc.

【Example】



Summary of Proposal

* Please limit this “Summary of Proposal” form to two (2) pages.

1. Project title

Nam eu lorem congue tortor volutpat scelerisque quis aliquet augue: Phasellus non dui id metus facilisis tincidunt

2. Principal investigator

- Name Hanako Iryou
- Sex Female
- Researcher ID (8 digits) XXXXXXXX
- Date of birth 19XX / XX / XX (YYYY/MM/DD)
- Affiliation ZZZZZZ University
- Department Department of YYYYYY
- Position title Professor
- E-mail address ZZZZZZ@YY.jp

3. Abstract (400 words maximum)

Outline your research proposal, mentioning the anticipated results, in 400 words or less.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris vel tellus faucibus, iaculis elit quis, semper lectus. Nam ac odio at enim congue malesuada id nec dolor. Etiam dignissim varius orci, id sodales diam volutpat eget. Vestibulum scelerisque posuere dolor id scelerisque. Quisque euismod dignissim felis non blandit. Integer lobortis libero finibus eros interdum consequat. Cras non nunc ultrices, tempus odio eu, fermentum tellus. Quisque sem massa, venenatis a purus eget, bibendum sollicitudin ante. Duis consectetur lobortis augue, at venenatis arcu gravida nec. Nam eu lorem congue tortor volutpat scelerisque quis aliquet augue. Phasellus non dui id metus facilisis tincidunt. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris vel tellus faucibus, iaculis elit quis, semper lectus. Nam ac odio at enim congue malesuada id nec dolor. Etiam dignissim varius orci, id sodales diam volutpat eget. Vestibulum scelerisque posuere dolor id scelerisque. Quisque euismod dignissim felis non blandit. Integer lobortis libero finibus eros interdum consequat. Cras non nunc ultrices, tempus odio eu, fermentum tellus. Quisque sem massa, venenatis a purus eget, bibendum sollicitudin ante. Duis consectetur lobortis augue, at venenatis arcu gravida nec. Nam eu lorem congue tortor volutpat scelerisque quis aliquet augue. Phasellus non dui id metus facilisis tincidunt. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris vel tellus faucibus, iaculis elit quis, semper lectus. Nam ac odio at enim congue malesuada id nec dolor. Etiam dignissim varius orci, id sodales diam volutpat eget. Vestibulum scelerisque posuere dolor id scelerisque. Quisque euismod dignissim felis non blandit. Integer lobortis libero finibus eros interdum consequat. Cras non nunc ultrices, tempus odio eu, fermentum tellus. Quisque sem massa, venenatis a purus eget, bibendum sollicitudin ante. Duis consectetur lobortis augue, at venenatis arcu gravida nec. Nam eu lorem congue tortor volutpat scelerisque quis aliquet augue. Phasellus non dui id metus facilisis tincidunt.

4. Keywords (10 items maximum)

List as many as 10 terms that most likely represent the essence of the proposed research.

1. **XX Infectious disease** 2. **XX Synthetic inhibitor** 3. **International development** 4.
5. 6. 7. 8.
9. 10.

5. Publication list (10 items maximum)

List as many as 10 peer-reviewed articles published in English in reverse chronological order (most recent first), and specify the most relevant one(s) with an asterisk(s) ().*

- 1.
- *2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

