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 研究課題名（和文）A comparative study of the international perspectives on international research collaborations
 研究課題名（英文）A comparative study of the international perspectives on international research collaborations
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研究成果の概要（和文）：研究者（国内機関）と共同研究者（国外機関）が行なっている国際共同研究に関して研究分析調査を行った。日本と協力国が国際共同研究を推進するためには、「研究と教育の政策統合」、「幅広い利害関係者の関係構築と対話促進」、そして、「Research Integrityに関する課題への理解」の3つの課題に対して、国際的かつ学際的な取組みが必要であるとの結論に至った。新たなネットワークを通してフィードバックを受け取り、研究方法と研究分析方法の改善を行う事ができた。主任研究者は、2022-2023学年度、『日米科学コミュニケーション&政策フェローシップ・ネットワーク・プログラム』のフェローの1人に選ばれた。

研究成果の学術的意義や社会的意義

This study results will be beneficial to individual researchers and key stakeholders to be aware of emerging challenges relating to “Research Integrity” in international research collaborations and understand how to advance research policies and explore for administrative support interventions.

研究成果の概要（英文）：This study examined researchers’ knowledge and perspectives on challenges influencing the development of international research collaborations between Japanese researchers and their international collaborators from around the world. The study results indicate three suggestions “harmonizing research and education policies,” “advancing broader stakeholder engagement,” and “understating challenges relating to Research Integrity” to refine the international research collaborations between Japan and the collaborating nations. The Principal Investigator could refine the research method of this study based on the feedback from the scholars and professionals. In the 2022-2023 academic year, the principal investigator was selected as one of the fellows in the inaugural Japan-U.S. Science Communication & Policy Fellowship Network Program to promote meaningful cooperation between Japan and the United States on global challenges by bridging a critical gap between science and policy.

研究分野：Higher Education

キーワード：International Research Research Collaborations Collaborative Research Higher Education Cross-border Research Comparative Research Qualitative Research Research on Research

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1. 研究開始当初の背景

- (1) Research systems in each nation differently have shaped the scholarship identity of each individual researcher. It will be necessary for researchers and their collaborators to recognize emerging challenges in developing research agendas, communicating with stakeholders, and understanding guidelines of government funding agencies across nations.
- (2) Anderson and Steneck (2010) state the four primary dimensions (national research systems) such as (1) the organization and funding of research, (2) legal and normative environments, (3) regulatory and publication oversight, and (4) graduate education and postdoctoral training would influence researchers and stakeholders and lead them to have different assumptions and expectations about how research would be planned, implemented, and reported. They also describe that the structural and systematic differences that are most detectable in international (“between-nation”) collaborations are those related to differences in national research systems.
- (3) To build strong foundations for expanding global cooperation in the future, researchers, institutional leaders, research administrators, funding agencies, and other stakeholders must be more aware of the influence of their priorities, decisions, and actions on cross-national research collaboration. When relevant stakeholders’ perspectives are taken into account, challenges can be more easily identified and addressed, potentially leading to research environments that are more productive and responsible.
- (4) Based on the previous literature review, understanding emerging challenges at the individual level will be the first step to understand the various issues surrounding researchers, their collaborators, and other key stakeholders in collaborative research across nations.

2. 研究の目的

- (1) The research question driving the analysis in this study is: In what ways do government policies, funding Agency initiatives, funding structures and mechanisms, institutional factors, and prior connections affect international research collaborations? The international research collaborations are examined in terms of their process and outcomes from the perspective of individual researchers and research support professionals.
- (2) The purpose of this research is to explore the relations between the influence factors and the structure and functioning of international research collaborations. In this research, international research collaboration is generally defined as the various kinds of joint research engagement activities and partnerships conducted by Japanese researchers and their collaborators whose affiliated institutions locate in different nations.

3. 研究の方法

- (1) By utilizing a qualitative research method (collecting data through semi-formal interviews) in this study, the Principal Investigator examined the knowledge and perspectives of the individual researchers based on five influences and three aspects in international research collaboration.

- (2) With the approval [Approval #2021-63 (August 2021) and Approval #2023-122 (December 2023)] of the Ethics Committee for Research on Human Subjects at Sophia University, the Principal Investigator conducted interviews and analyzed the interview data.
- (3) In this study, “government policies,” “funding agency initiatives,” “funding structures and mechanisms,” “institutional factors,” and “prior individual connections” are considered and analyzed as the five influencing factors (Independent Variables) of the development of international research collaborations. Also, in this study, “initiation and establishment,” “implementation and procedures,” and “outcomes and products” are defined as the three aspects (Dependent Variables) of international collaborative research. Figure 1 presents the conceptual framework for this research.

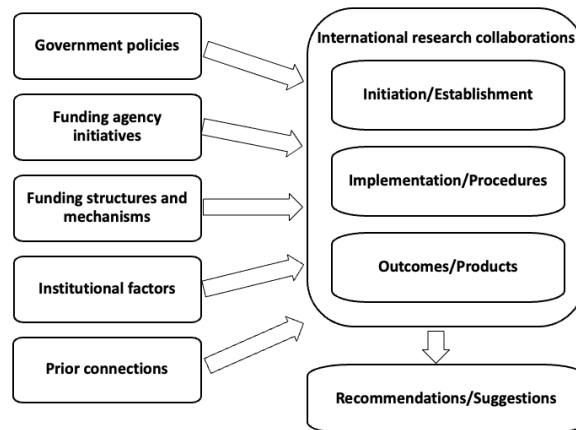


Figure 1: Conceptual Framework: Key Factors Related to International Research Collaborations

- (4) The interview participants received the interview questions and signed the consent form via the online consent form service (Adobe Sign) before the scheduled interviews. Throughout the interview data-collection process, the Principal Investigator followed an interview protocol to collect qualitative interview data.
- (5) To focus the analysis on the responses of all the researchers, PI extensively presented the descriptions and themes in the qualitative narrative. The Principal Investigator applied the following three measures—frequency, specificity, and extensiveness—to analyze the interview responses (interview data) to the questions.

4. 研究成果

- (1) The study results indicate three suggestions “harmonizing research and education policies,” “advancing broader stakeholder engagement,” and “understating challenges relating to Research Integrity” to advance the international research collaborations between Japan and the collaborating nations. First, all stakeholders need harmonizing research policies and policies of graduate education in promoting the mobility of emerging researchers within and across higher education institutions. Second, institutional leaders need to advance the broader stakeholder engagement on research integrity at the institutional, national, and international levels. Third, key stakeholders need to be aware of emerging challenges relating to “Research Integrity” and provide appropriate and timely support to researchers across nations.
- (2) During this research project, the Principal Investigator has been able to expand his research network with leading scholars and professionals within Japan and around the world. Being selected as a fellow in

the Japan-U.S. Science Communication & Policy Fellowship Network Program has provided the opportunity to meet leading emerging researchers in person and present research at the Policy Symposium (Feb. 26-28, 2023) at the Okinawa Institute of Science and Technology.

- (3) This study provides only a comprehensive review of international research collaborations that were conducted at higher education institutions. The results of this study indicate that stakeholders will need to recognize what would be emerging challenges related to Research Integrity in promoting collaborative research across nations, continue to make changes on research policies by integrating new research guidelines and regulations with policy makers across nations, keep refining research support structures, and explore for appropriate administrative and research support interventions.
- (4) In other nations and states, the policies of Research Integrity have been defined differently across the nations. Researchers in Europe are expected to follow the research guidelines and policies at the institutional level (defined by her/his affiliated institution), the national level (defined by the national government), and the international level (the European Commission). Researchers in the United States have to follow the guidelines and policies defined by their affiliated institutions and the federal funding agencies (e.g. National Science Foundation and National Institutes of Health). In Japan, the Cabinet Office defined Research Integrity as “new risks associated with internationalization and openness of research are made” in Japan, and the emerging challenges need to be broadly investigated analyzed from the perspectives of the key stakeholders.
- (5) The Principal Investigator will modify existing research method to understand more detailed emerging challenges that would influence the productivity of individual researchers and research communities in international research collaborations between Japan and the partner nations in the following KAKENHI research project (24K16716: 2024-04-01 – 2027-03-31). Based on the results of this study, the Principal Investigator created the new conceptual framework for upcoming research. Figure 2 presents the conceptual framework for upcoming research.

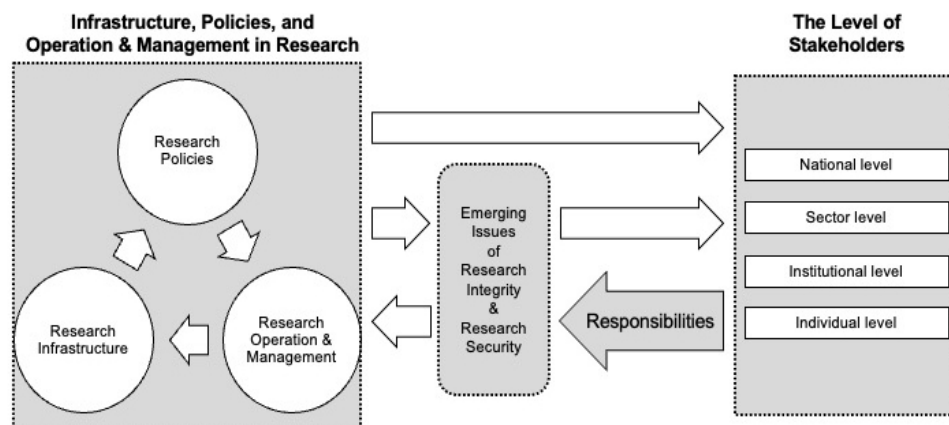


Figure 2: Conceptual Framework: Three influential factors for assuring Research Integrity and the Level of Stakeholders in International Research Collaborations

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〔雑誌論文〕 計1件（うち査読付論文 1件/うち国際共著 0件/うちオープンアクセス 1件）

1. 著者名 Kamata, Takehito	4. 巻 37
2. 論文標題 International Research Collaborations: An analysis of researchers' perspectives in Japan and the United States	5. 発行年 2022年
3. 雑誌名 研究 技術 計画	6. 最初と最後の頁 20 ~ 33
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〔学会発表〕 計17件（うち招待講演 0件/うち国際学会 11件）

1. 発表者名 Kamata, Takehito
2. 発表標題 Research Integrity and Security: Stakeholder analysis on discourse relations and shared responsibilities in international research collaborations
3. 学会等名 Japan Society for Research Policy and Innovation Management 38th Annual Academic Conference: In-person
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〔図書〕 計0件

〔産業財産権〕

〔その他〕

<p>〔2022年-2023年：新たに獲得したフェローシップ〕 『日米科学コミュニケーション&政策フェローシップ・ネットワーク・プログラム』 Fellow, Japan-U.S. Science Communication & Policy Fellowship Network Program. (2022&#8211;2023). Website: https://usjapansciomm.ucr.edu/ Fellows List: https://usjapansciomm.ucr.edu/media/59/download?attachment</p> <p>〔2022年：学術調査レポート（専門家会議委員：レポート作成メンバー）〕 『国立研究開発法人日本医療研究開発機構 研究公正高度化モデル開発支援事業』 Reviewer & Specialist Committee. Research Integrity Promotion Course, School of Medicine, Shinshu University. (2022). Kenkyu no koseisei no koujou to kenkyu fuudo no jyousei wo suishin suru tame no kenkyushientaisei no gaidorain (in Japanese) [Enhancing Research Integrity and Cultivating a Research Climate - Guidelines for Research Support System]. Guideline in English: https://www.shinshu-u.ac.jp/faculty/medicine/chair/i-kousei/integrity_guidelines_en_202203.pdf Guideline in Japanese: https://www.shinshu-u.ac.jp/faculty/medicine/chair/i-kousei/ae85c9c3c213705caf7995b1e6c1f3ff_1.pdf</p>
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6. 研究組織		
氏名 (ローマ字氏名) (研究者番号)	所属研究機関・部局・職 (機関番号)	備考

7. 科研費を使用して開催した国際研究集会

〔国際研究集会〕 計0件

8 . 本研究に関連して実施した国際共同研究の実施状況

共同研究相手国	相手方研究機関
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