

ID No. : BR180201

様式 Form 7  
(招へい 2018)

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2018 年 12 月 14 日

To: President, Japan Society for the Promotion of Science

独立行政法人日本学術振興会理事長 殿

## 研究活動報告書 Research Report

1. 被招へい研究者 所属・氏名 Name of Fellow, Affiliation Philippe MARCQ, Université Pierre et Marie Curie, Paris, France
2. 受入研究者 所属・職・氏名 Name of Host, Position, Affiliation Shuji ISHIHARA, Associate Professor, The University of Tokyo, Tokyo, Japan
3. 研究テーマ Research Theme under the Fellowship Biophysical modeling of tissue mechanics
4. 採用期間 Fellowship Period  2018 年 8 月 27 日 ~ 2018 年 10 月 10 日 From(Year/Month/Day) To(Year/Month/Day)
5. 研究実施の状況とその成果 Research implementation and results The long-term goal of our collaboration is to better understand the biophysical determinants of morphogenetic processes during animal development. During this stay, we focused on the following aspects: - how to include the mechanical effects of cell division into our integrated framework for epithelial mechanics - how to include cell motility to the same framework, with applications to collective cell migration in <i>in vitro</i> systems in mind. - how to adapt phase field approaches to numerical simulations of epithelia within a confined, moving spatial domain The schedule allowed me to attend the Fall meetings of the Japanese Physical Society in Kyoto, and of the Japanese Biophysical Society in Okayama, where I could meet and discuss with many prominent colleagues.
6. 受入研究者よりコメントがあれば記載してください。 Comments from Host I am grateful to JSPS for supporting the stay of Dr. P. Marcq. A paper was accepted during his stay, in which PM is the corresponding author and SI is co-authored.
7. 被招へい研究者よりコメントがあれば記載してください。 Comments from Fellow I am very grateful to JSPS for funding.

注1. 本様式は受入研究者と被招へい研究者が協力して作成してください。

注2. 本様式は受入研究者より、採用期間終了後3か月以内に、電子メールにてご提出ください。

The Host is requested to make this form in cooperation with the Fellow and submit to JSPS by email within 3 months after the end of the fellowship. The form can be written either in English or in Japanese.