

DATE: Day 12 Month 05 Year 2025

**SUMMARY of  
FY2024 RESEARCH RESULTS REPORT  
For International Collaborative Research with IPR, Osaka University**

<b>Research Title</b>		Elucidating the Structures of Anticancer Target Proteins and Their Complexes with Inhibitors
<b>Applicant</b>	<b>Name</b>	Hyoun Sook Kim
	<b>Affiliation</b>	National Cancer Center Korea
	<b>Present Title</b>	Senior Scientist/ Principal Investigator
<b>Research Collaborator (Host PI)</b>		Prof. Atsushi Nakagawa and Prof. Eiki Yamashita (Host PI : Prof Atsushi Nakagawa)
<p><b>Summary</b></p> <p>Fragment-based drug discovery is a widely used method in the pharmaceutical industry for the targeted therapy that targets new drug candidates. Fragment-based drug discovery allows a more effective exploration of chemical space with a higher hit rate compared to conventional chemical high-throughput screening. We tried to solve three-dimensional structures of TDO2, KRAS, TNIK, PGGHG and PELI1 alone or in complex with their respective inhibitors selected from chemical fragment library screen for development of a novel potential therapeutics. We were able to collect and process data sets. From these data sets, we could successfully identify the electron densities of bound inhibitors in targets.</p>		

**\*Deadline: May 9, 2025**

**\*Please submit it to E-mail: [tanpakuken-kyoten@office.osaka-u.ac.jp](mailto:tanpakuken-kyoten@office.osaka-u.ac.jp).**

**\*Please describe this summary within 1 sheet. Please DON'T add some sheets.**

**\*This summary will be published on the web.**