北陸先端科学技術大学院大学研究室教育指針
Laboratory Education Guideline

研究室教育指針は、学則第３０条の３に基づき、研究指導の方法及び内容並びに修了までの研究指導の計画をあらかじめ明示するものです。
Based on the Article 30-3 of the general academic rules, the Laboratory Education Guideline is intended to clearly outline the methods and content of research guidance, as well as the plan for research guidance until completion.

氏名 / name： Takahiro Hohsaka　　役職 / official position： Professor

1. 研究テーマ / Research Theme
Development and application of artificial protein synthesis system through expansion of the genetic code
2. 修得が期待される能力 / Competencies expected to be acquired 研究室教育は必修 A 科目（先端）又は研究支援科目（融合）の一部として単位化されており、この欄はそれら科目のシラバス上の達成目標の一部となります。 Laboratory Education is accredited as a part of the Required courses A (Division of Advanced Science and Technology) or Research Support Courses (Division of Transdisciplinary Sciences), and this section constitutes a part of the course goals stated in the syllabus for such subjects.
Students can learn specialized knowledge and experimental techniques related to genetic engineering, protein synthesis, organic synthesis, and fluorescence analysis. Through research activities, students can also learn the entire research process, from planning experiments, researching related research, acquiring and analyzing experimental data, and summarizing and presenting research results. These skills are essential for both engineers and researchers.
3. 研究指導方針 / Research Guiding Principle
The goal of the laboratory activities is to learn the research process and achieve novel results through experiments on research themes related to artificial proteins. Specifically, through the process of repeating experiments by trial and error, students will hone their ability to independently design experiments, interpret results, identify problems, and provide feedback for the next experiment.
4. 研究室活動の内容及び方法 / Content and Methods of Laboratory Activities
□日次活動 / Daily Activities： Daily laboratory activities will mainly consist of long-term experiments, and students will be required to independently manage their schedules in a disciplined manner. □週次活動 / Weekly Activities： In the laboratory seminar (about once a week), we have regular research presentation meetings to check progress and provide guidance and advice, and we also learn about examples of cutting-edge research in this research field through journal meetings. □月次活動 / Monthly Activities： □不定期活動 / Occasional Activities： We will actively have opportunities to present research results at academic conferences.
5. 年間スケジュール / Annual Schedule 本学の全学共通の年間スケジュールは「履修案内」の「学位取得に至るスケジュール」を参照してください。（本学HP 参照：ホーム＞教育＞履修関係＞履修案内） Please refer to the “Degree conferment schedule for the master’s program/doctoral program” in the “Degree Completion Guide” for university-wide common schedule (JAIST website: Home >Education>Taking Courses>Degree Completion Guide)

- Laboratory orientation and training for new students (April or anytime after lab assignment)
- Conference participation and presentation (e.g., Molecular Biology Society of Japan, December; Chemical Society of Japan, March)
- Laboratory research presentation (February or anytime before graduation)