

受賞者の声

Ying Zhang (総合研究大学院大学物理科学研究科機能分子科学専攻)
平成24年度(第3回)学長賞

Sokendai President's Award, started from 2009, is a research grant to those whose research for a doctoral degree is well planned or already being conducted and reflects Sokendai's philosophy of "high expertise and broad perspective" in research and education.

I was happy to be selected as a candidate of the award after submission of the application materials in the early March. For the final selection, I made an oral and a poster presentation on 11 April.

On that day, all the candidates gathered at Hayama campus. My presentation title was "NMR studies of structures, dynamics and interactions of oligosaccharides." Oligosaccharides play a variety of physiological and pathological roles in living systems. For better understanding the molecular basis of the mechanisms underlying oligosaccharide functions, detailed information is quite desirable on conformational dynamics of oligosaccharides and their interactions with

other biological macromolecules. However, strategies for conformational characterization of oligosaccharides remain to be established. In view of this situation, I have been developing novel methods to address this issue by applying nuclear magnetic resonance (NMR) spectroscopy in conjunction with organic chemistry, theoretical science and molecular biology techniques.

After the oral presentation, we started the poster show. The president Prof. Takahata and professors asked us several questions and gave many useful advices. I was exciting when the president told me that my work is quite meaningful and suggested to extent the methodology to biological applications. The award ceremony was held in the next afternoon. The most excited thing was that all the nine candidates were offered the president award. The president gave the certification to us one by one and encouraged everyone to broaden the perspectives and aim for more



achievements in the future.

Finally, I extremely want to express my gratitude to Prof. Kato, Dr. Yamaguchi and all members in our group for their immense help and also to SOKENDAI, who offers students the honor and this kind of invaluable opportunity. Especially, I could benefit a lot from the selection process on how to prepare and design a project. Another point is that I can acquaint myself with more friends, which is one of the favorite.

平成24年度3月総合研究大学院大学修了学生及び学位論文名

専攻	氏名	博士論文名	付記する専攻分野	授与年月日
構造分子科学	稲熊 あすみ	内在性 mRNA を可視化する蛍光プローブの開発とβアクチン mRNA の細胞内局在解析	理学	H24. 3.23
	飯塚 拓也	強相関電子系の多重極限下電子構造	理学	H24. 3.23
機能分子科学	武藤 翼	両親媒性ピンサー型パラジウム錯体から成るベシクル触媒の創製と水中有機分子変換反応への応用	理学	H24. 3.23

総合研究大学院大学平成24年度(4月入学)新入生紹介

専攻	氏名	所属	研究テーマ
構造分子科学	中村 豪	生命・錯体分子科学研究領域	金属錯体のπ軌道制御に基づく光物質変換反応の設計
	徐 宏 (Xu Hong)	物質分子科学研究領域	Design and Functions of π-Electronic 2D Polymers
	伊東 貴宏	生命・錯体分子科学研究領域	錯体触媒ユニットを用いた新規物質変換反応場の開拓
	橋谷田 俊	光分子科学研究領域	新しい光学顕微鏡によるナノ物質の励起状態の探求
機能分子科学	伊藤 賢一	生命・錯体分子科学研究領域	クリック反応による高エナンチオ選択的反応の開発
	辻 裕章	生命・錯体分子科学研究領域	新規不斉有機分子触媒の開発と不斉反応への展開
	PATCHARIN KAEWMATI	分子スケールナノサイエンスセンター	Synthesis and studying application of triazasumanene compound
	岡部 佑紀	分子スケールナノサイエンスセンター	バッキーボウルの材料科学への展開
	梶原 朋子	岡崎統合バイオサイエンスセンター	アミロイドβの重合開始機構の構造生物学的基盤の解明