

## The NIBB Internship program

The NIBB Internship program is a hands on learning experience started in 2009 as a way to promote NIBB with overseas students and to build connections through providing education to the people who will form the core of future research networks. At the same time, this program aims to internationalize the graduate students of the Graduate University for Advanced Studies (SOKENDAI), giving them the opportunity to get to know students and interns with various cultural customs.

To participate in this program, applicants who would like to experience research at NIBB must supply the name of the lab they would like to visit as well as their reasons for choosing it and a letter of recommendation. Based on this information applicants are chosen to spend set periods of time participating in specific research activities in the lab they applied for. Round trip airfare and housing expenses are provided by the NIBB Internship Program.

In FY 2013 there were 16 applicants, of which five interns were selected. These interns were from universities located in 4 countries (India, Bangladesh, Hungary, and China) and spent periods ranging from one to twelve weeks experiencing life as a member of a research team.

### Report from a participant Manirui Haaque University of Dhaka, Bangladesh

I worked in the Laboratory of Molecular Genetics for Reproduction, under the supervision of Dr. Minoru Tanaka from 1<sup>st</sup> October to 1<sup>st</sup> November, 2013. During my stay I have done several experiments but my major topic was “Detection of laminin in female gonad of medaka (*Oryzias latipes*) during development”.

I successfully completed the experiments and also learned many advanced techniques. To detect laminin I learned immunohistochemistry which was the first time for me. I did this experiment using 18 dph (day post hatch) *Olvas*-transgenic medaka. GFP (Green Fluorescent Protein) was used to detect the gonad which express green color in germ cells under microscope. I have also done another experiment that was detection of laminin in matured gonad of *hotei* medaka. Interestingly, we found oocyte like structure in XY male *hotei* gonad along with spermatocyte. In addition, I learned XY typing (Genotyping) of *hotei* (germcell excess medaka), DNA sequencing, microinjection, use of confocal microscopes and so on.

Every lab member was very open and ready to help. I was so overwhelmed by such a nice lab environment. This internship was very important for me to become an efficient researcher in the future.

