Program for Enhancing Systematic Education in Graduate Schools
-Advanced Education Program for Integrated Clinical, Basic and Social Medicine

June 16, 2009

Dear Professors (representatives) of departments,

Subject: **Recruitment of the Research Assistant of FY 2009 (Second semester)**

We hope many of the students would apply. The details are as follows.

1. **[Outline and Purpose]** The aim is to develop a broader point of view and application ability through the interactive and interdisciplinary assistant work by employing graduate students in the "The Course of Metabolism, Circulation and Related Informatics ", "The Course of Developmental Biology and Regenerative Medicine " and other relating area as the Research Assistant for the research project relating to developmental biology, regenerative medicine, metabolism, circulation and related informatics.
2. **[Qualification]** Student who is in the first grade(more than 6 months after entering the doctor course) or second grade in the doctor course of graduate school of medical sciences as of October 1st in 2009, who has motivation and ability to participate in the project. Student who is a research assistant by any another fund (except for Kumamoto University Ph.D. Work-Scholarship implemented from April 2009), a business worker, or JSPS (Japan Society for the Promotion of Science) Research Fellowship-DC, in the scheduled employment period described below, cannot be a Research Assistant of this program.
3. **[Application Method]** Applicants must choose one of the research project (see exhibit) presented by this education program, and hand in the application form (exhibit R-1) stating the reason why he/she has chosen the project and the present research content. Note that applicants cannot choose the research project of the department where applicants belong to.
4. **[Application Period]** Applications must reach Igakukei-Kyoumu-Kikaku-Kakari by no later than 5 pm on July 15 (Wed.),2009.
5. **[Number of Expectant]** About 23 students
6. **[Selection Process]** The governing board of this education program will screen applicants based on the submitted application forms. The students in "The Course of Metabolism, Circulation and Related Informatics" and "The Course of Developmental Biology and Regenerative Medicine" will be given priority. The result of the selection will be announced by July 31(Fri.) in 2009 to the applicant's belonging department and department in charge of the research project.

7. **[Employment Period]** From October 1 in 2009 to February 28 in 2010.
8. **[Job Content]** The Research Assistant will participate in the employed research project as an assistant. The job contents, like participation in journal club or research meeting, assistant work for experiments, are set in each research projects. The ResearchAassistant shall submit an accomplishment report to this educational program. Some assistants may be asked to participate in the Joint Progress Report Meeting in March,2010, that is held by this educational program.
9. **[Salary]** The salary will be approximately ¥360,000 in total of work duration. If the applicant has another job as TA, etc, the salary may reduce not to exceed the maximum work hours determined by Kumamoto University.
10. **[Inquiries]** Staff of the Program for Enhancing Systematic Education in Graduate Schools (Within the department of Cell Differentiation, Institute of Molecular Embryology and Genetics　Ext.:6808)

(Exhibit R-1)

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The applications for the Research Assistant of FY 2009 (Second semester)

Application date			
Name of applicant	Seal or sign here		
Affiliation		Grade	

e-mail address & Phone for daytime	
Official supervisor's affiliation & Name	
Project name of your choice	
Department in charge for the project	
The reason why you have chosen the above research project.	
Please check if applicable.	☐ Student in the Course of Metabolism, Circulation and Related Informatics ☐ Student in the Course of Developmental Biology and Regenerative Medicine

*This application form has 2 pages. Please submit both side printing.

(Exhibit R-1)

Name of Applicant	
Details of the research that you are studying now. (It doesn't need to be related to the chosen project.)	
Please notify if there is any reference for the research achievement, such as published papers or conference presentations.	

Department	Project
Metabolic Medicine	Studies on molecular mechanism of insulin resistance and its impact on diabetic vascular complications.
Cell Differentiation	Studies on molecular mechanisms underlying development of hematopoietic and vascular systems.
Molecular Genetics	Clarification of Molecular Mechanisms underlying Metabolic Syndrome, Cardiovascular disease, and Cancer
Microbiology	Signal function of reactive oxygen species and oxidative stress regulation
Bioethics	Study regarding Impacts of Religions on Bioethical Perspectives
Diagnostic Medicine	Analyses of the amyloid formation mechanism
Pediatric Surgery	Dynamic study of the regulatory T cell to find a predictive indicator for immunological tolerance after living donor liver transplantation
Department of Pediatrics	Liver injury and clinical application of regenerative medicine
Cardiovascular Medicine	Basic and clinical research for diagnosis and treatment of patients with cardiovascular disease
Public Health	Molecular epidemiology research which aimed at search of the lifestyle-related disease susceptibility biomarker
Cardiovascular Surgery	Angiogenic therapy using growth factor secreting cells and tissue
Stem Cell Biology	Differentiation of stem cells into cells of the digestive organs
Immunology	Study on molecular mechanisms of antibody production in B cell
Cell Pathology	Role of macrophage in metabolic disorder
Developmental Neurobiology	Regulation of neural development by the secreted signaling proteins
Ophthalmology and Visual Science	Investigations on novel glaucoma surgery combined with medical modulation of filtration bleb formation
Medical Cell Biology	Analysis of epigenetic mechanisms involved in human diseases
Cellular Interactions	Molecular mechanisms of epithelial tissue formation
Kidney Development	Molecular mechanisms in embryonic kidney progenitors
Immunogenetics	Development of novel immunotherapies by utilizing technologies of developmental biology
Cell and Biological Pharmacology	Cardiovascular diseases and renin-angiotensin system
Medical Biochemistry	Molecular mechanism of insulin secretion and glucose metabolism