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## MMC Activities

# The Research Reports under the 8<sup>th</sup> Micromachine Technology Research Grant

This research grant program started inviting applications in 1993 as a part of the independent activities of MMC. The purpose of the program is to assist college and university staff engaged in basic research on micromachines, and to promote further development of micromachine technology and communication between academics and people in the industrial world.

Among the themes selected for the eighth (2000) research grant, six 2-year research projects carried over from fiscal 1999 have been completed.

The following are the summaries of the research results.

No.	Subjects	Leader and Co-Worker	Affiliations	Period
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### Carried-Over Projects Granted for Fiscal 1999

1	Development of noninvasive single cell manipulator utilizing temperature-responsive polymer	Dr. Masayuki Yamato	Assistant Professor, Institute of Advanced Biomedical Engineering and Science, Tokyo Women's Medical University	2 Years
2	Construction of micro-lens array by micro-fabrication of stimuli-responsive gel	Prof. Yoshihiro Ito, Dr. Eng.	Project Leader, Regenerative Medical Bioreactor Laboratory, Kanagawa Academy of Science and Technology	2 Years
3	Study of novel polymer micro-actuator powered by enzymatic reactions of biomolecules	Prof. Kazuhiko Ishihara, Dr. Eng.	Professor, Department of Materials Science, Graduate School of Engineering, The University of Tokyo	2 Years
4	Catheter tip position sensing system using MI sensor	Dr. Yoichi Haga	Research Associate, Graduate School of Engineering, Tohoku University	2 Years
5	Electrical, thermal and mechanical properties of nano mechanical structures	Assoc. Prof. Gen Hashiguchi, Dr. Eng.	Associate Professor, Faculty of Engineering, Kagawa University	2 Years
		Prof. Hiroyuki Fujita, Dr. Eng.	Professor, Institute of Industrial Science, The University of Tokyo	
		Dr. Manabu Ataka	Assistant, Institute of Industrial Science, The University of Tokyo	
6	Integration of chemical systems toward artificial organ	Prof. Takehiko Kitamori, Dr. Eng.	Professor, Department of Applied Chemistry, Graduate School of Engineering, The University of Tokyo	2 Years
		Dr. Hideaki Hisamoto	Lecturer, Department of Applied Chemistry, Graduate School of Engineering, The University of Tokyo	