

日本語プログラム										English-based Program																	
専攻	研究部門	研究指導	研究指導コード						主担当教員			副担当教員			Department	Research Area	Research Instruction	Research Guidance Code		Main Supervisor					Vice Supervisor		
			修士課程	博士後期課程	職階	取得学位	教員名	メールアドレス	職階	取得学位	教員名	Master	Doctor	POSITION				Degree	Name	E-mail address							
共同先端生命医科学専攻	-	先端治療機器設計・開発評価研究	-	T51	教授 ※早稲田大学本属	博士(医学) (大阪大学)	宮田 俊男	myt.toshi	@aoni.waseda.jp	教授	博士(医学) (早稲田大学)	村垣 善浩	田村 学	Cooperative Major in Advanced Biomedical Sciences	-	Research on Design, Development and Evaluation of the Instruments with Advanced Medical Therapy	A real medical-engineering collaboration is essential to develop high performance instruments which can support an advanced medical treatment, such as artificial organ, organ transplantation or tissue-engineered therapy. In order to learn effective methods to design and development of the medical instruments, real training can be experienced through joining of one of the undergoing projects and several approaching methods from the specification to the final goal (clinical application) can be experienced.	-	-	Professor * Waseda University Affiliation	Doctor of Medicine (Osaka University)	MIYATA, Toshio	myt.toshi	@aoni.waseda.jp	Professor	Doctor of Medicine (Tokyo Women's Medical University), Doctor of Biomedical Science (Waseda University)	MURAGAKI, Yoshihiro TAMURA, Manabu
共同先端生命医科学専攻	-	先端治療機器臨床応用・開発評価研究	-	T52	准教授 ※東京女子医科大学本属	博士(医学) (和歌山県立医科大学)	田村 学	tamura.manabu	@twmu.ac.jp	教授	博士(医学) (早稲田大学)	村垣 善浩	岩崎 清隆	Cooperative Major in Advanced Biomedical Sciences	-	Research on Clinical Application, Development and Evaluation of the Instruments with Advanced Medical Therapy	A real medical-engineering collaboration (one more EDM: Engineering Based Medicine) is indispensable in development of medical instruments with advanced medical therapy. There is a good thing for the first time in what it can be done by piling up improvement with a medical instrument different from a medicine and using it in clinical fields. A researcher must proceed with the development on the assumption that it is used in clinical fields. Furthermore, you must carry out clinical research with collecting sufficient data for trust which is indispensable to an approval application for Pharmaceutical Affairs Act. It is carried out with Design, Development and Evaluation of the Instruments with Advanced Medical Therapy based on these points.	-	-	Associate Professor * Tokyo Women's Medical University Affiliation	Doctor of Medicine (Wakayama Medical University)	TAMURA, Manabu	tamura.manabu	@twmu.ac.jp	Professor	Doctor of Medicine (Tokyo Women's Medical University), Doctor of Biomedical Science (Waseda University)	MURAGAKI, Yoshihiro IWASAKI, Kiyotaka
共同先端生命医科学専攻	-	循環器医工学研究	-	T53	教授 ※早稲田大学本属	博士(工学) (早稲田大学)	岩崎 清隆	iwasaki	@waseda.jp	准教授	博士(医学) (和歌山県立医科大学)	田村 学	田村 学	Cooperative Major in Advanced Biomedical Sciences	-	Research on Biomedical Engineering of Circulation Control	Biomedical engineering of the cardiovascular system such as development of implantable devices has made remarkable progress to advance treatment of cardiovascular diseases. We promote the research and development of novel medical devices with high clinical needs, using technologies of state-of-the-art biomedical engineering. We focus on the innovative technology such as regeneration guided by decellularized tissues, and the science-based methodology to evaluate hydrodynamics, durability, and blood compatibility of coronary artery stents, cerebral artery stents, and new devices. Furthermore, regulatory science including translational research for clinical application is addressed.	-	-	Professor * Waseda University Affiliation	Doctor of Engineering (Waseda University)	IWASAKI, Kiyotaka	iwasaki	@waseda.jp	Associate Professor	Doctor of Medicine (Wakayama Medical University)	TAMURA, Manabu
共同先端生命医科学専攻	-	組織再生医療研究	-	T54	准教授 ※東京女子医科大学本属	博士(医学) (早稲田大学)	田村 学	tamura.manabu	@twmu.ac.jp	教授	博士(理学) (東京大学)	大和 雅之	大和 雅之	Cooperative Major in Advanced Biomedical Sciences	-	Research on Tissue Regeneration	Regenerative medicine is expected to produce complete cures for diseases, i.e., to surpass the limitations of excisional surgery typically performed in cancer therapy as well as conventional symptomatic pharmacotherapy. Regenerative medicine achieved by stem cell biology and tissue engineering to reconstruct tissue structures ex vivo has been already applied to clinical settings in some area. Our main objectives are to promote development of novel regenerative therapy based on cell sheet engineering, a key technology in the next generation tissue reconstruction as well as to pursue clinical regulatory science.	-	-	Associate Professor * Tokyo Women's Medical University Affiliation	Doctor of Medicine (Wakayama Medical University)	TAMURA, Manabu	tamura.manabu	@twmu.ac.jp	Professor	Doctor of Science (The University of Tokyo)	YAMATO, Masayuki
共同先端生命医科学専攻	-	分子細胞医療研究	-	T56	准教授 ※東京女子医科大学本属	博士(医学) (和歌山県立医科大学)	田村 学	tamura.manabu	@twmu.ac.jp	教授	工学博士(早稲田大学)	武岡 真司	武岡 真司	Cooperative Major in Advanced Biomedical Sciences	-	Research on Molecular and Cellular Therapeutics	We investigate the regulatory science regarding to the translational research through the pre-clinical, phase I, II, III, IV clinical study based on the development of the new molecular and cellular therapeutics. The candidates of the new medicine are the cellular immunotherapy with $\alpha\beta$ T cells, $\gamma\delta$ T cells, dendritic cells, peptide vaccine, siRNA, monoclonal antibodies. Furthermore, we also try to develop the tailor-made medicine from the genetic analysis of the individual cancer cells.	-	-	Associate Professor * Tokyo Women's Medical University Affiliation	Doctor of Medicine (Wakayama Medical University)	TAMURA, Manabu	tamura.manabu	@twmu.ac.jp	Professor	Doctor of Engineering (Waseda University)	TAKEOKA, Shinji
共同先端生命医科学専攻	-	ナノ医療工学研究	-	T57	教授 ※早稲田大学本属	工学博士(早稲田大学)	武岡 真司	takeoka	@waseda.jp	准教授	博士(医学) (和歌山県立医科大学)	田村 学	田村 学	Cooperative Major in Advanced Biomedical Sciences	-	Research on Nanomedical Engineering	This major focuses nanomedicine using nanoparticles such as liposomes for drug, gene, or protein delivery or biocompatible polymer nanosheets for regenerative tissue engineering or drug release as a new medical treatment. Particularly, this major studies requisites and regulatory issues of those nanomaterials for medical application to propose solutions from medical engineering aspects.	-	-	Professor * Waseda University Affiliation	Doctor of Engineering (Waseda University)	TAKEOKA, Shinji	takeoka	@waseda.jp	Associate Professor	Doctor of Medicine (Wakayama Medical University)	TAMURA, Manabu