List of courses available for graduate students (Wakayama Medical University)

	Course name (Press the name to jump to the link)	Professor name (Press the name to jump to the link)	Acceptable number of people	Research theme	Massege from Professor
		Prof. Yoshito Ihara, M.D., Ph.D.		involved in the post-translational regulation of glycoproteins in the cell, and the roles in cell biology, physiology and pathology. We have several research topics, which concern [1] C-mannosyl tryptophan, a unique post-translational modification in cellular proteins, and [2] calreticulin, a lectin chaperone regulating quality control of glycoprotein biosynthesis in the endoplasmic reticulum. The research group of Dr.Kazuchika Nishitsuji focuses on finding novel diseases mechanisms that are associated with abnormal	recruitment for graduated faculties. Students from non-medical faculties are also welcome. For more information, please email to the addresse below. e-mail: y-ihara@wakayama-med.ac.jp or nishit@wakayama-med.ac.jp
	Metabolism and Biochemistry	mail y-ihara@wakayama-med.ac.jp	2	deposition of protein aggregates. Currently, aprroximately 50 human diseases have been found to be associated with abnormal protein aggregation and deposition. Our research goal is to unvail novel pathological mechanisms of diseases that have not been previously recognized as protein agguregation diseases. We also have several ongoing programs regarding phyological and pathological roles of sulfation modification of glycans. Some of thema are in collabolation with Dr.Kenji Uchimura at UGSF,Universite de Lille.	 S. Minakata, S. Manabe, Y. Inai, M. Ikezaki, K. Nishitsuji, Y. Ito, Y. Ihara, Protein C-Mannosylation and C-Mannosyl Tryptophan in Chemical Biology and Medicine, Molecules, 26 (2021) 5258. M. Ikezaki, S. Minakata, K. Nishitsuji, S. Tabata, I.S. Lee Matsui, M. Takatani, J. Usukura, Y. Ito, Y. Ihara, Calreticulin protects insulin against reductive stress in vitro and in MIN6 cells, Biochimie, 171-172 (2020) 1- 11. N. Iwahashi, M. Ikezaki, T. Nishikawa, N. Namba, T. Ohgita, H. Saito, Y. Ihara, T. Shimanouchi, K. Ino, K. Uchimura, K. Nishitsuji, Sulfated glycosaminoglycans mediate prion-like behavior of p53 aggregates, Proc Natl Acad Sci U S A, 117 (2020) 33225-33234. K. Nishitsuji, K. Uchimura, Contribution of Sulfated Glycosaminoglycans to the Pathology of Amyloidosis, Trends in Glycoscience and Glycotechnology, 33 (2021) E141-E145. N. Iwahashi, M. Ikezaki, Y. Komohara, Y. Fujiwara, T. Noguchi, K. Nishioka, K. Sakai, K. Nishio, M. Ueda, Y. Ihara, K. Uchimura, K. Ino, K.