

**Prof. Kobayashi will have a lecture for “Takumi Waza”  
in Tianjin at the end of August 2016.**

Operative techniques in surgery are mainly composed of moving hands through “directly” watching surgical site and enhancing the technique through haptic feeling transferred to hands. It’s exactly there where so-called “Takumi” (Superb technique) is born.



On the other hand, in case of microsurgery using microscope, the directions visible in eyes and movable by own hands are so-to-speak “indirect”. In addition, micro sutures are generally very thin and it makes very complex to have a haptic feeling generated by subtle suturing technique.



And the technique to “indirectly watch” has been led to endoscopic operation by way of electronically-generated images. The feeling of “Takumi” by way of clamps gradually decreases compared to that of “directly” by hands.



Furthermore, in case the operative technique is performed by way of robot, the era of non-haptic operation has emerged.

