

## **Improvement in taking out of sample for PIXE from living body**

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### **Abstract**

We have investigated the dynamics of the anti-tumor agent(Cisplatin) injected in the tongue in the last 6 years. However, the data of these samples varied widely and we consequently worried about the interpretation for these data. We have thought the cause of these varies was the protocol for sample preparations and have attempted the change of the container size or the measurement method. But we could not get the good result. In this experiment, we have improved the extraction method of lymph node. After injection of anti-tumor agent, we knot the afferent and efferent lymph vessels of the lymph node before extraction. We can get the good result thorough using this method. We can get by-product in this experiment. The agent flows into the lymph node of the same side in which we injected the agent, and the half volume of agent flows into the lymph node of the opposite side. From now on, we will increase the sample number and determine the inflow quantity in each side of the deep cervical lymph node.