4　説明会の開催　本公表に基づく導入説明会を開催する。
⑴　開催日時　平成25年５月31日11時00分
⑵　開催場所　東北大学医学部・医学系研究科会議室
5　その他　この導入計画の詳細は導入説明書による。なお、本公表内容は予定であり、変更することがあり得る。
6　Summary
⑴　Classification of the products to be procured : 24
⑵　Nature and quantity of the products to be purchased : The application system of IT-based virtual imaging analysis for medical education 1 Set
⑶　Type of the procurement : Purchase
⑷　Basic requirements of the procurement :
A　A system to make virtualized slides with high resolution
a　This system must capture the high resolution images of both histology and cytology slide by reasonably high speed scanning.
b　This system must scan the whole fields of cytology smear specimens and capture the whole images with reasonably high resolution.
c　This system must scan and capture both light and florescent microscopic findings without difficulties and multi-channel display of different fluorescent dyes must be able to be demonstrated on the screen without much difficulties.
d　The images captured by the virtual microscopy can be convertible to the present system of the virtual microscopy running in Tohoku University School of Medicine and images captured should be easily convertible to JPEG and TIFF format.
e　The system must allow the capture of any designated areas of the specimens without any difficulties and make automatic identification of the position of the examined fields possible. In addition, the necessary update of the program must be guaranteed at no costs at least for the next five years.

B　A system of practical training to digitize neuronal activities
a　This system has to be the one that is capable of conducting Principal Component Analysis (PCA) and Template Analysis online.
b　This system has to be the one that is capable of conducting Principal Component Analysis (PCA) and Template Analysis utilizing OFS.
c　This system has to be the one that is capable of sending Spike Data to Matlab online, utilizing Ethernet.
d　This system has to be the one that enables us to conduct presentations and to give descriptions of Nerve Action Potential record to third parties, utilizing monitor screens for education.
e　This system has to be the one that enables more than one person to conduct Sorting Analysis together while sharing recorded data among them.
f　This system has to be the one that is designed to sufficiently and properly deal with the problems in Business Continuity. Also, this system has to be the one that is designed to sufficiently and efficiently respond to natural disasters.
g　This system has to be the one that enables us to add more channels, which we may need, in the future. Also, this system has to be the one that is capable of maintaining flexibilities, which we may need in many respects, in the future.
h　This system has to be the one that has 16ch inputsfor Nerve Action Potential data, Threshold Nerve Action Potential data, Field Potential data and Wide Band data in each filter band. Also, this system has to be the one that is capable of dividing the above-mentioned input data in 16ch from those data in 64ch.
i　This system has to be the one that has more than 32 bit for outside event data input.
j　This system has to be the one that enables us to set the optional filters in Spike band, FP band and Wide Band.
k　This system has to be the one that enables us to view Inter-Spike Interval Histogram online.

C　A system to analyze and digitize the microscopic and macroscopic images with high reslution
a　This system must enable to browse and analyze the histology and cytology slides captured with high resolution in conjunction with radiological and macroscopic images.
b　Students enable to analyze easily the captured images obtained by virtualized slides as self-learning.
c　Professors can use the virtualized slides as a small group teaching method, and also monitor and record the students' performance and academic results.
d　The license of image analyses should be applicable to as many as students with reasonable fees.

D　Client-server computing devices
a　Terminal computers should be added on in 6th floor of 4th building at Seiryo campus in order to support the increased quota of medical school students. In addition, similar system should be installed at the student laboratory room of histology located at 1st floor of 1st Building in order to browse the captured slides during classes.
b　The layout of installed rooms should be adjusted when needed.
c　Newly-installed system should match the existing system with a high integrity.

E　Software system of image transfer
a　Students and Professors enable to access newly-installed digitized system from outsides, and to browse the images obtained by newly-installed high-resolution digitized system.

F　Installation of LAN
a　A system of internet should be made up with a high security.
b　Newly-installed system should match the existing system with a high integrity.

⑸　Time limit for the submission of the requested material : 5 : 00 PM 21, June, 2013
⑹　Contact point for the notice : Takashi Kikuchi, Procurement Services Office, Finance Department, Tohoku University, 2―1―1 Katahira Aoba-ku Sendai-shi 980―8577 Japan, TEL 022―217―4869

## 資料提供招請に関する公表

次のとおり物品の導入を予定していますので、当該導入に関して資料等の提供を招請します。
平成 25 年５月 21 日
国立大学法人東北大学理事　佃　　良彦
◎調達機関番号　415　◎所在地番号　04
**○第 15 号**
1　調達内容
⑴　品目分類番号　24
⑵　導入計画物品及び数量
微小部解析システム　一式
⑶　調達方法　購入等
⑷　導入予定時期　平成25年度11月以降
⑸　調達に必要とされる基本的な要求要件
A　高分解能透過型電子顕微鏡は、以下の機能を備えていること。
a　ＴＥＭ像、ＳＴＥＭ像、二次電子像の観察が可能なこと。
b　分解能が、200ｋＶ時においてＴＥＭ粒子像で0.3nm以下、ＳＴＥＭ明視野像格子像で0.25nm以下であること。
c　フォーカス、スティグマ、コントラスト、ブライトネス、オリエンテーションが自動調整できること。
d　装置操作をアシストするためのナビゲーション機能を有すること。
e　エネルギー分散型Ｘ線分析機能を有すること。