J　Time line

To take a comprehensive, panoramic view of the medical records and the clinical plan, the clinical information is displayed by the various time series. Corresponding to the time series (span), the clinical information appropriately selected and displayed, and the clinical passage and pathway should be able visually to be viewed. Moreover, the system should have the function that the displayed-items can be selected.

K　Patient Communication system and medical information service

The system must have the communications function of place navigation etc. at the clinic and treatment reservation of the patient and waiting time. And the system must have a utility of demonstrating clinical information to patients. Moreover, it must have a so-called form of clinical pathway for patients, and also have the requirements as a hospitalization medical-examination plan document.

L　Regional Partnership

The system must enable the reference by web of electronic medical record from a specific related institution, after sufficient securing connection with an external network, and preventing an informational disclosure using technology, such as VPN (virtual private network). Moreover, use of mutual information cooperation and a introduction system, and a reservation system must be possible.

M　Management Support System

The system must demonstrate capabilities of system maintenance, user administration, personnel management, SPD for medical stuffs, ward management, and message communication. And it has a groupware function and enable linkage with schedule management of an individual and operating systems, such as a reservation system. Moreover, the hospital announcing to public can be connected with the Internet with security secured, and achieve unified communications in the hospital.

N　UI（User Interface）

Client terminals in the system must be uniformly managed with high-order man-machine interfaces, such as a multi window and GUI (graphical user interface). They must aim at unification of operativity, and should offer comfort able work environment. And in order to realize unitary management of each terminal, offer an integrative function. And they must carry out effective cooperation of the database made by FileMaker Pro of the commercial database software with this system. The user himself can build an input interface and a disease database freely using FileMaker Pro, and can use unitary with this system. Moreover, correspond to not only the PC terminal but also PDA, electronic paper, and the touch screen tablet, etc. in the input interface.

O　System IF（System Interface）

Data transfer and storage in the system must be defined as DICOM・JPEG for images, MPEG2 for movies, HL 7 and／or XML for message with TCP／IP transmission,in compliance with feasible telemedicine.

P　System Coordination and Dynamic Data Link

Between this system and existing subsystem, specified subsystems and modalities must be connected to the system through the hospital information network. In this case, it is necessary to improve the efficiency of the avoiding wastefulness by effectively using data. Partially of Data-sharing, use the interface engine (Example : ensemble) etc. And the specifications required for a connection across the system must be provided.

Q　Maintenance and Tutorial

Comprehensive maintenance for the system and tutorial services for the users must be provided.

R　Technical Assistance

The technical information that is necessary in operation on this system must be provided. And the data set of the system must be reconstructed according to the structural information and fact data of the previous system granted by the hospital.

S　Data External Preservation and Transfer

The clinical data must be able to be preserved outside of the system by the general-purpose data format from which the Visibility is guaranteed. When the hospital will transfer the data from this system in the future, the necessary technical information must be provided. Moreover, admit the third party whom of the hospital and the hospital admitted to use these for the transfer-work.

T　Database／Hardware Virtualization

The database must be designed that be possible about the long-clinical data preservation that considers patient's life span. And the database is adopt an object oriented database (Example : Cache') not only a relational database according to the use. Moreover, Use the virtualization technique to promote effective use for the hardware system.

⑸　Time limit for the submission of the requested material : 5 : 00 PM 8, October, 2010

⑹　Contact point for the notice : Hiroaki Yasuda, Accounting Division, Nagoya University School of Medicine, 65 Tsurumai-cho Showa-ku Nagoya-shi 466―8560 Japan, TEL 052―744―2799

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22年8月16日

国立大学法人京都大学長　松本　　紘

◎調達機関番号　415　◎所在地番号　26

○第１号

１　調達内容

⑴　品目分類番号　14

⑵　導入計画物品及び数量　スーパーコンピュータシステム　一式

⑶　調達方法　借入

⑷　導入目的　本システムは、本学における、化学を中心とした自然科学・工学の広範な分野での大規模計算、バイオインフォマティクスを中心とした生命科学研究の推進、及びゲノムネット運用のために導入するものである。

⑸　導入予定時期　平成23年度１月以降

⑹　調達に必要とされる基本的な要求要件

A　現在化学研究所が使用しているスーパーコンピュータシステムは、計算生物学サーバ及び計算化学サーバ（ともにＳＧＩ Altix4700）、ゲノムネットサーバ及びデータベース開発サーバ（ともにSun Fire Ｅ6900）から構成され、ＵＮＩＸ環境で運用されている。また、現在化学研究所が使用している電子計算機システムはデータベースサーバ（ＳＧＩ　Altix450）及びファイルサーバ（Sun Fire Ｖ240）から構成され、ＵＮＩＸ環境で運用されている。今回導入予定のスーパーコンピュータシステムは、現在使用しているスーパーコンピュータシステムと電子計算機システムを統合したものとして、以下に示す６つのサーバから構成され、ＵＮＩＸ環境で運用できること。

B　ゲノムネット計算サーバ：1,000以上のＣＰＵコアを持ち、共有メモリ方式で８ＴＢ以上の主記憶容量があること。100ＴＢ以上の高速磁気ディスク装置を備えていること。計算生物学関連のソフトウェアが整備されていること。

C　化学計算サーバ：500以上のＣＰＵコアを持ち、共有メモリ方式で４ＴＢ以上の主記憶容量があること。100ＴＢ以上の高速磁気ディスク装置を備えていること。計算化学関連のソフトウェアが整備されていること。