

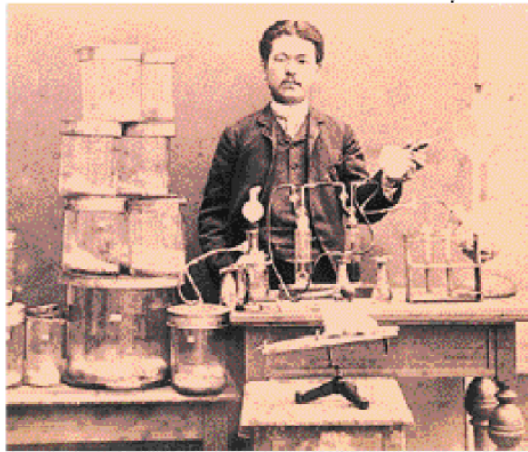
Geant4 研究会2005

Koichi MARUAYAMA
Allied Health Sciences &
Graduate School of Medical Science
Kitasato University

Kitasato University

- Private University commemorating
Dr. S. KITASATO(1853-1931)
 - Discovered pest bacillus (ペスト菌)
 - Purely cultured tetanus bacillus (破傷風菌)
 - Established serotherapy (血清療法)
 - Candidate of the 1st Nobel Prize for Medicine
- General University of Life Sciences
 - Seven Schools for LS
 - Seven Graduate Schools for LS





Dr. Kitasato succeeded in pure cultivation of the tetanus bacilli in 1888 by devising the anaerobic apparatus shown in this picture. Generally believed impossible, this success won him worldwide recognition as a microbiologist.

The Spirit of Kitasato Gakuen

Spirit of Pioneer

Spirit of Gratitude

Spirits of Wisdom and Practice

Spirit of Indomitability

Dr. Shibasaburo Kitasato was a pioneering scientist, who became the first to obtain a pure culture of the tetanus bacillus. He was also the first to discover a tetanus neutralizing anti-toxin, and showed that it was possible to provide an animal with passive immunity against tetanus by injecting it with the blood serum of another animal infected with the disease. The use of blood serum against various pathogens later became a routine method of treating diseases. These discoveries were made while studying in Robert Koch's Institute of Hygiene, Berlin. Later, during an epidemic in Hong Kong, he discovered the bacillus *Pasteurella pestis*, the

infectious agent of bubonic plague. He is widely deemed as a great microbiologist, and his discovery of anti-toxin (antibody) has made him the founder of the science of modern immunology.

He organized a team of scientists and medical doctors to fight against infectious diseases in Japan and abroad, and this team eventually developed into the Kitasato Institute.

Kitasato University, a constituent of Kitasato Gakuen, was established in 1962. Its founding body, the Kitasato Institute, envisioned an educational organization whose graduates embody the spirits preached by Dr. Shibasaburo Kitasato.

tetanus bacillus(破傷風菌)



Heart(心臟)

Life Sciences



薬学部

School of PHARMACEUTICAL SCIENCES



獣医畜産学部

School of VETERINARY MEDICINE and ANIMAL SCIENCES



医学部

School of MEDICINE



水産学部

School of FISHERIES SCIENCES



看護学部

School of NURSING



理学部

School of SCIENCES



医療衛生学部

School of ALLIED SCIENCES

Allied Health Sciences

- Health Science
- Laboratory Medicine
- Medical Engineering
 - Clinical Engineering: CE
 - Radiological Technology: **RT**
- Rehabilitation: PT, OT, ST, OV



北里大学
医療衛生学部
School of Allied Health Sciences

〒228-8555 神奈川県相模原市北里1-15-1
TEL.042-778-8111 (代表)



Radiological Technology Course; RT

- Radiological Technology
- Clinical Imaging Technology
- Imaging Informatics Technology
- Radiation Sciences
- Radiation Safety and Control



Radiation Science of School of Medicine

- **放射線科学**
- 医療衛生学部医療工学科や他の単位の研究者との共同研究も活発。
- 放射線科学は、画像医学と放射線腫瘍学に大別される。特に近年のコンピュータ技術の躍進に伴い、画像診断機器・放射線治療装置の進歩は目覚ましく、放射線治療は一般臨床において重要な役割を担っている。当科では、関連各科との緊密な連携の下、優れた臨床医を育成するための教育・研究・指導体制をとっている。研究面では、X線CTをはじめ磁気共鳴画像(MRI)、核医学検査の新しい撮像技術の開発、診断精度向上のための臨床研究を行っている。また、血管造影や経皮的穿刺手技を利用したインターベンショナルラディオロジー(IVR)の領域では、血管塞栓術、血管・気道内ステント留置術、腫瘍ラジオ波焼灼術など治療技術の開発に力を注いでいる。放射線腫瘍学は放射線治療を主体とした専門領域で、臓器機能の温存を目指した高精度放射線治療に関わる基礎的・臨床的研究を推進している。

