Career Opportunities of Nuclear Technology and Applications Division

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1/29/2024

Introduction

- **Our mission:** Nuclear Technology and Applications Division (NTAD) is an application-oriented, non-profit R&D affiliation of the IHEP, aiming at technology transfer and product industrialization
- **Our areas:** Medical imaging devices for pre-clinical research and diagnosis, irradiation accelerators, industrial CT, radiation safety monitoring, low-toxic tumor therapy nano-medicine, etc.

Beijing office

Jinan Laboratory

Introduction

Staff and graduate students: 105 in total

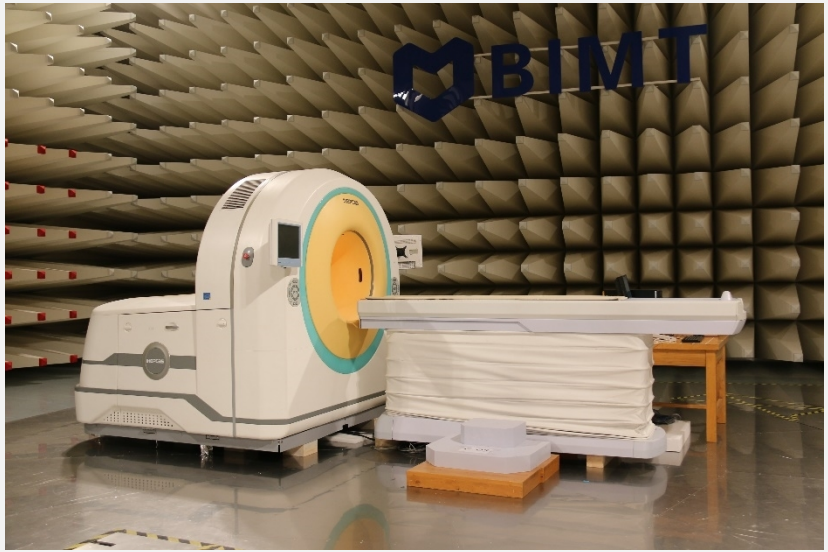
- Full-time faculties: 58
- Post doctorate: 2
- Graduate students: 25
- Exchanged students: 16
- Others: 4

Our focus: device and technology for:

- Imaging for clinic diagnosis and life science
- Nondestructive testing (NDT) for industry and laboratory
- Radiation safety monitoring
- Advanced compact accelerator

Our Achievements

Imaging devices for diagnosis and pre-clinical research



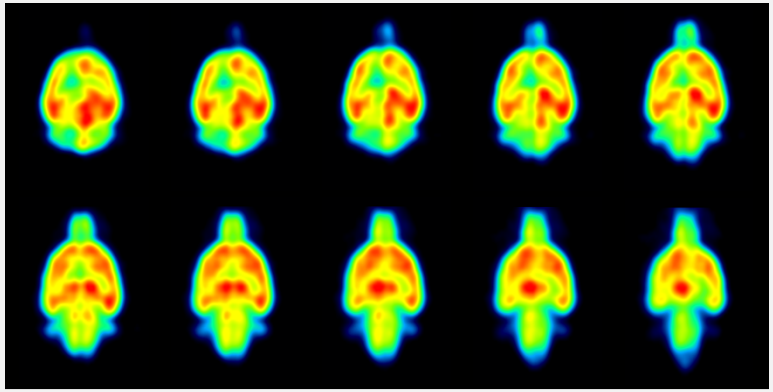
Positron Emission Tomography (PET)

Positron Emission Mammography (with CFDA registration)

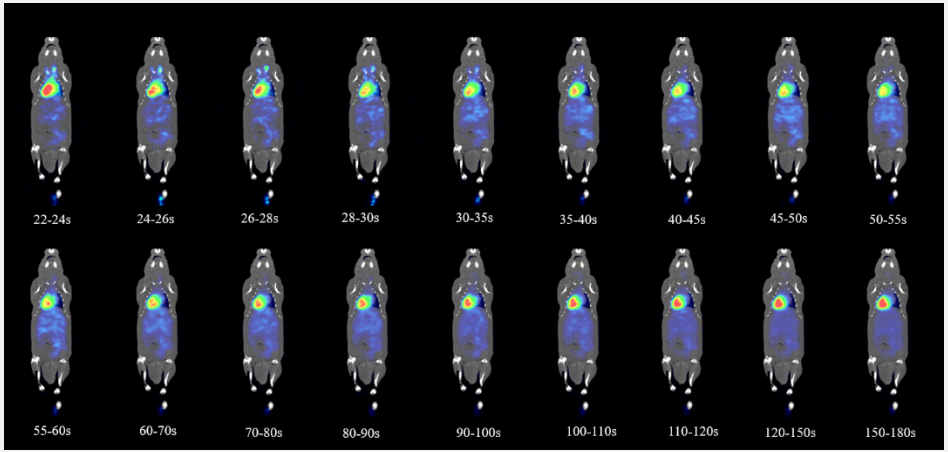
Whole-body PET/CT for small animals

Spectral CT for small animals

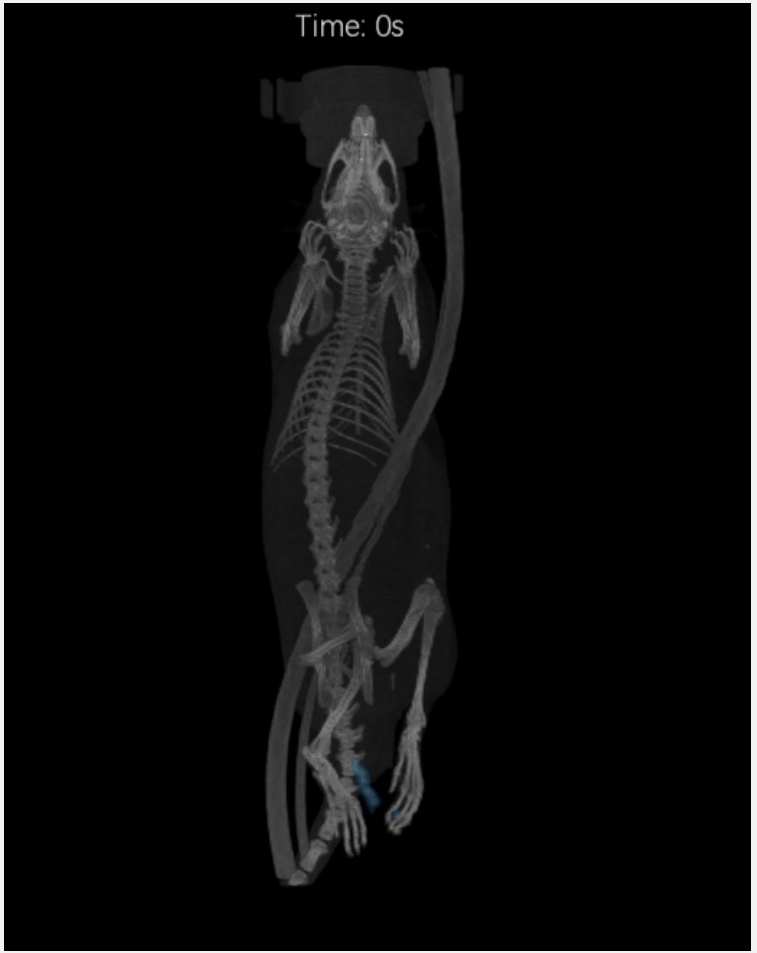
Our Achievements



PET images of rat's brain



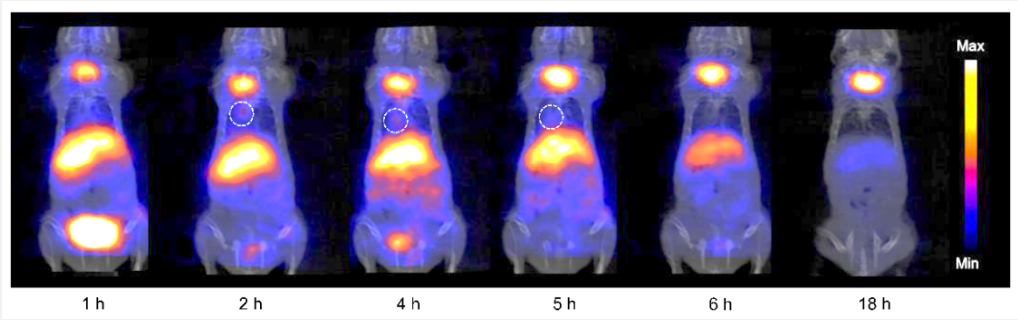
Dynamic PET/CT images of rat's heart



Dynamic PET/CT imaging of rat

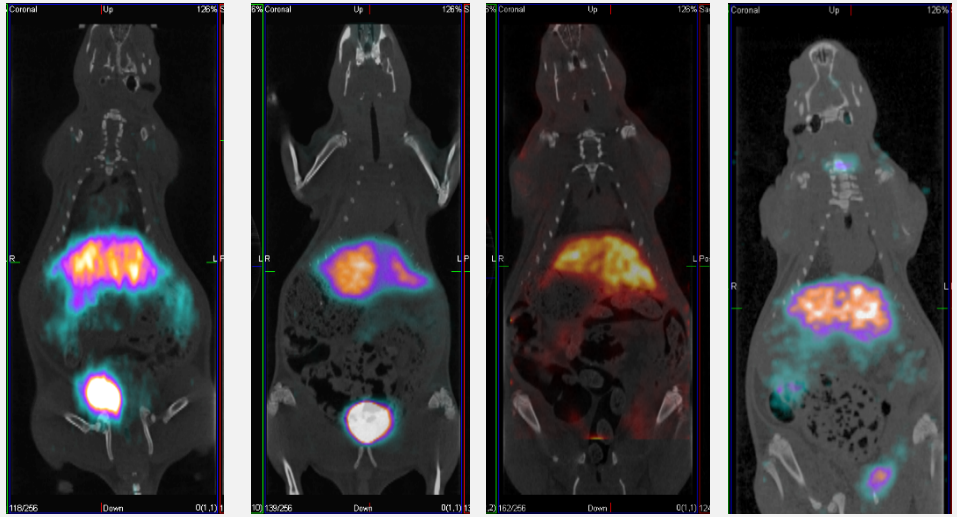
Our Achievements

Molecular probe

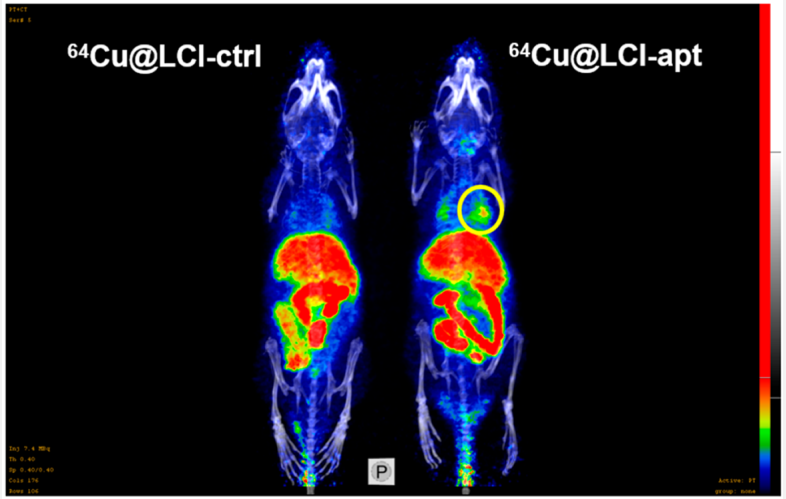


Rat lung cancer PET imaging

Rat PET and SPECT imaging



^{99m}Tc SPECT | ^{68}Ga PET | ^{64}Cu PET | ^{124}I PET



Nude mouse lung cancer PET imaging

Our Achievements

CT equipment for industry and laboratory

锐影检测科技（济南）有限公司
Ray Image Testing Technology (Ji Nan) Co. Ltd.

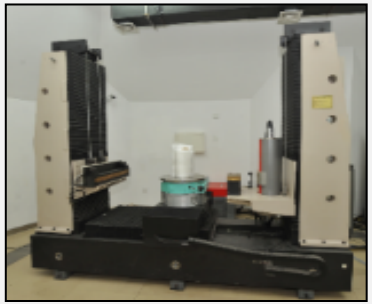
Computed Laminography

Computed Laminography for IGBT testing

Spectral nanoCT

Our Achievements

CT equipment for laboratory



Dedicated fossil CT

nature
International journal of science

Article | Published: 13 June 2018

An Early Cretaceous eutherian and the placental–marsupial dichotomy

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Cretaceous fossil reveals a new pattern in mammalian middle ear evolution

Haibing Wang, Jin Meng & Yuanqing Wang

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International journal of science

Article | Published: 13 November 2017

A Jurassic gliding euharamiyidan mammal with an ear of five auditory bones

Gang Han, Fangyuan Mao, Shundong Bi, Yuanqing Wang & Jin Meng

Nature **551**, 451–456 (23 November 2017) | Download Citation

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Chun Li, Nicholas C. Fraser, Olivier Rieppel & Xiao-Chun Wu

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Article | Published: 07 April 2021

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REPORT

Integrated hearing and chewing modules decoupled in a Cretaceous stem therian mammal

FANGYUAN MAO, YAOMING HU, CHUANKUI LI, YUANQING WANG, MORGAN HILL CHASE, ANDREW K. SMITH, AND JIN MENG

Authors Info & Affiliations

SCIENCE · 5 Dec 2019 · Vol 367, Issue 6475 · pp 305-308 · DOI: 10.1126/science.aay9220

Our Achievements

Radiation safety monitoring

Neural network based radiation source detection and tracking

Public radiation safety support

UAV carried radiation detector

Our Achievements

Accelerators

L-band 10MeV industrial irradiation accelerator

S-band 10MeV industrial irradiation accelerator

6MeV accelerator X-ray source

9MeV accelerator X-ray source

Position Description

- **Opening:** Professor
- **Research area:** Nuclear medical imaging technology
- **Professional background requirements:**
  1. Professor or equivalent rank
  2. Experienced in PET/SPECT algorithm or instrumentation

Position Description

- **Opening:** Associate professor
- **Research area:** Nuclear medical imaging technology
- **Professional background requirements:**
  1. Associate professor or post doctorate experience abroad
  2. Experienced in PET/SPECT algorithm or instrumentation

Position Description

- **Opening:** Associate professor
- **Research area:** Radiation detector and system R&D
- **Professional background requirements:**
  1. Associate professor or post doctorate experience abroad
  2. Experienced in advanced radiation detector R&D

Position Description

- **Opening:** Post doctorate
- **Research area:** X-ray imaging technology
- **Professional background requirements:**

1. 1) CT imaging theories, including reconstruction and data correction or 2) frontier basic research of physics and mathematics
2. Innovative technology research of static CT and spectral CT, their applications in industry and medicine

Position Description

- **Opening:** Post doctorate
- **Research area:** Nuclear detection and imaging
- **Professional background requirements:**
  1. Nuclear detection technology research and detection system development
  2. Majoring in physics, nuclear science and technology, biomedical engineering; being familiar with particle physics and nuclear physics
  3. Good communication and cooperation

Position Description

- **Opening:** Post doctorate
- **Research area:** Molecular probe
- **Professional background requirements:**
  1. Frontier research of chemistry of radioactive medicine
  2. Diagnosis and treatment dual-purpose radioactive probe design and synthesis

Position Description

- **Opening:** Post doctorate
- **Research area:** Accelerator technology and application
- **Professional background requirements:**
  1. Advanced accelerator technology research and application
  2. Majoring in accelerator physics, accelerator technology and other relative area
  3. Experienced in accelerator system and key component R&D

Welcome to join us!

Dr. Wei, Cunfeng, Director of NTAD

Email: weicf@ihep.ac.cn