Seed Grants in Particle Therapy

A Brief Overview

Steve Jiang, Ph.D.

Vice Chair, Department of Radiation Oncology

Director, Division of Medical Physics and Engineering

Barbara Crittenden Professor in Cancer Research

Background (I)

- NCI P20 grants to UTSW and UCSF in 2015
- State of Texas matching fund to UTSW
- Seed grants from UTSW
  - 5 projects/2 years/$100K each
  - Research related to heavy ion therapy: clinical, biological, physics, engineering
  - Within Texas
  - Towards to the establishment of National Particle Therapy Research Center (NPTRC)

Background (II)

- Application submission deadline
  - December 1st, 2015
- Activation date
  - March 1st, 2016
- Peer review panel
  - Harald Paganetti
  - Michael Syphers
  - Ulrich Weber
  - Kathy Held

Funded Projects

- Exploiting hadron therapy differential DNA damage for radioprotection and radiosensitization
  - Gabriel O. Sawakuchi, Anderson Cancer Center
- Neutron detector array for monitoring neutrons generated during heavy ion therapy
  - Bruce E. Gnade, UT Dallas/Southern Methodist University
- Preliminary study of PET image-based on-line beam range-verification and delivery
  - Yiping Shao, UT Southwestern Medical Center
- Analysis and Preprocessing of Single Proton/Ion Tracks for Clinical Imaging
  - Keith Schubert, Baylor University
- Prompt gamma imaging for range verification and dose monitoring of carbon ion therapy
  - Mingwu Jin, UT Arlington

Thank You
köszönöm
Kiitos
Maake
Asante
Shukria
Dhanyavadagalu
Vinaka
감사합니다
Dankscheen
спасибо
Kam Sah Hammida
ارکش
Manana
Dankon
Diolch i Chi
Terima Kasih
Matondo
Dank Je
Mauruuru
Biyan
Taiku
Blagodaram
Ngiyabonga
Dziekuje
Chokrane
Tack
Grazie
Juspaxar
Arigato
Mochchakkeram
Gracias
Khap
Paldies
Tingki
நன்றி
Bedankt
D'akujem
धन्यवाद
cảm ơn bạn
Gratias Tibi
Ua Tsaug Rau Koj
Grazas
Di Ou Mèsi
Kia Ora
Kop Khun
Obrigado
Děkuji
Nirringrazzjak
ありがとう
Suksama
Rahmat
Nuwun
Hvala
Welalin
Djiere Dieuf
谢谢
хвала
Danke
Merci
Go Raibh Maith Agat
Eskerrik Asko
Misaotra
Matur
Salamat
ขอขอบคุณคุณ
Najis Tuke