20TH CONGRESS OF THE INTERNATIONAL UNION FOR PURE APPLIED BIOPHYSICS (IUPAB)

50TH ANNUAL MEETING OF THE BRAZILIAN SOCIETY FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY (SBBQ)

45TH CONGRESS OF BRAZILIAN BIOPHYSICS SOCIETY (SBBF)

13TH BRAZILIAN SOCIETY ON NUCLEAR BIOSCIENCES CONGRESS



PROGRAM AND ABSTRACT BOOK

October, 2021

20th International Congress of the International Union for Pure Applied Biophysics (IUPAB)

50th Annual Meeting of the Brazilian Society for Biochemistry and Molecular Biology (SBBq)

45th Congress of Brazilian Biophysics Society (SBBf)

13th Brazilian Society on Nuclear Biosciences Congress (SBBN)

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Ilustração da Capa: Alexandre Takashi

SPBN-13. Multidisciplinar education and the employment perspectives

SPBN-13.01 - Multidisciplinary education: the case of the Radiology Technology Course of the Federal University of Minas Gerais

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The School of Medicine of UFMG hosts three undergraduate courses: Medicine. Speech Therapy and Radiology Technology, all of them with a multidisciplinary approach. The Radiology Technology is one of the courses created by REUNI – Support Program for the Restructuring and Expansion Plan of Federal Universities – and its first class joined in 2010, inaugurating UFMG's performance in the field of technological graduations. The graduate student in the Radiology Technology course at UFMG will be able to enter the join market, in addition to taking lato sensu and stricto sensu postgraduate courses. The degree admits 80 students per year, 40 per semestre, with the objective of training professionals able to work in all areas of peaceful use of ionizing radiation. Therefore, this professional will be able to exercise the technical/practical principles, management, implementation and entrepreneurship in radiological diagnostic imaging services and therapy, in addition to industrial radiology services that make use of radiation emitting equipment. The Radiology Technologist will be competence to implement and apply national and international principles of radiological protection in medical and industrial services. The graduation in Radiology Technology requires affinities with the exact areas, anatomy, informatics and health. The course's faculty team is made up of professionals from different areas such as Technologists in Radiology, Physicists, Pharmaceuticals, Computer Scientists, Radiologists and Nuclear Physicians. In specific subjects of the course, these professionals teach together, each contributing their expertise so that the student can associate the physical concepts with biological concepts, facilitating the understanding of the formation and interpretation of medical images. This characteristic gives an important interdisciplinar character to the course. Our graduates have been working in radiotherapy services, imaging diagnosis, as radiation protection supervisors and also inserted in stricto sensu postgraduate courses, increasingly strengthening and highlighting more and more the profession of Technologist in Radiology.

SPBN-13.02 - Radiation Technology in Health Sciences at IPEN: A multidisciplinary and interdisciplinary Professional Master Degree Denise Maria Zezell ¹

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The Professional Master Program in Radiation Technology in Health Sciences (MP-TRCS) of the Nuclear and Energy Research Institute- IPEN/CNEN is a new program, started in August 2019. It is the only graduation program in the country to offer two nuclear reactors for educational purposes, for the development of dissertations, in addition to providing radiopharmaceuticals production in a nuclear reactor, in linear accelerator for radioisotope production, as well light and lasers applications. In addition to the infrastructure, the program has multidisciplinary training advisors working in an interdisciplinary manner who use their vast experience in radiation applied to medicine to guide students in a productive manner with a high degree of excellence. The MP-TRCS aims to fulfil a growing demand at IPEN/CNEN from professionals working in hospitals and clinics, using ionizing and non-ionizing radiation. These students need a more dynamic course directed to the practical professional activities. We have students from the most diverse areas, such as medical doctors, biomedical doctors working in clinical analyses, radiotherapy physicists, physiotherapists, dentists specializing in imaging diagnosis and laser, among others, participating in the front line, who use radiation or assess its impact on their day-to-day routine. The first students have already begin to present their dissertation. The employability has increased among students enrolled in the program. These professionals bring their experience to the program, which together with IPEN's academic structure and advisors, result in skilled students who are finding numerous career opportunities in the job market. Keywords: Professional Master degree, interdicisplinarity, Radiation. Supported by: IPEN/CNEN