



10th Jubilee

RAD

INTERNATIONAL
CONFERENCE
ON RADIATION
IN VARIOUS FIELDS
OF RESEARCH

Spring Edition

June 13-17, 2022
Hunguest Hotel Sun Resort
Herceg Novi, Montenegro

**BOOK OF
ABSTRACTS**

rad-conference.org

Gamma spectrometry control of fish and fish food during 2016-2021

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<https://doi.org/10.21175/rad.spr.abstr.book.2022.34.3>

In the current conditions of economic and social development, the danger of radioactive contamination on a large scale has increased significantly due to more frequent accidents at nuclear power plants, which increases the degree of threat to biotechnical production and radiation risk to the population. It is known that the main route of intake of radioactive substances in humans and animals, in the case of radioactive contamination of a territory, is intake through food (it accounts for over 70% of the total intake of radionuclides). It is also known that the basis of any protection, including radiation, is prevention, i.e. cutting the chain of contamination before the contaminant reaches the human or animal body. As the food chain is the main route of intake of radionuclides in the body, it is clear that the protection of that chain can most successfully protect a person. For over 35 years, LABRAH-Laboratory for Radiation Hygiene, as an accredited laboratory, has been performing continuous radiation-hygienic supervision, import-export, over products of animal origin, animal feed, feed additives and other products. This paper presents the results of gamma spectrometric control of fish samples, fish products and fish food in the period from 2015 to 2021. The aim of this paper is to point out the current radiation situation in the field of radiation hygiene control and the manner of implementation of procedures and measures for protection against radioactive contamination of produced radionuclides in regular conditions, as a basis for human and animal health. Based on the results obtained in the period from 2016 to 2021, the activity of ¹³⁷Cs in fish, fish products and fish food was below the prescribed limits. During this period, there was no additional radioactive pollution of the environment, we mean the nuclear accident in Fukushima, and also that the activities of this radionuclide in our diet are at a very low level.

TITLE: Book of Abstracts – RAD 2022 Conference (Spring Edition)

EDITOR: Prof. Dr. Goran S. Ristić

PROOF-READING: Saša Trenčić, MA

TECHNICAL EDITING: Saša Trenčić, MA

COVER DESIGN: Vladan Nikolić, PhD

YEAR OF PUBLISHING: 2022

PUBLISHER: RAD Centre, Niš, Serbia

FOR THE PUBLISHER: Prof. Dr. Goran S. Ristić

CD BURNING AND COPYING: RAD Centre, Niš, Serbia

PRINT RUN: Electronic edition - 50 CDs (CD-R)

ISBN: 978-86-901150-4-4

www.rad-conference.org

CIP - Каталогизacija u publikaciji
Народна библиотека Србије, Београд

539.16(048)(0.034.2)

INTERNATIONAL Conference on Radiation and Applications in Various Fields of Research (10 ; 2022 ; Herceg Novi)

Book of Abstracts [Elektronski izvor] / 10th Jubilee International Conference on Radiation and Applications in Various Fields of Research, (RAD 2022), June 13-17, 2022, Herceg Novi, Montenegro ; [editor Goran S. Ristić]. - Spring ed. - Niš : RAD Centre, 2022 (Niš : RAD Centre). - 1 elektronski optički disk (CD-ROM) ; 12 cm

Sistemski zahtevi: Nisu navedeni. - Nasl. sa naslovne strane dokumenta. - Tiraž 50. - Bibliografija uz pojedine apstrakte.

ISBN 978-86-901150-4-4

a) Јонизујуће зрачење -- Дозиметрија -- Апстракти

COBISS.SR-ID 70851849