

**MATERIALS RESEARCH SOCIETY of SERBIA
INSTITUTE of TECHNICAL SCIENCES of SASA
VINČA INSTITUTE of NUCLEAR SCIENCES, UNIVERSITY of BELGRADE
HYDROGEN STORAGE INITIATIVE SERBIA**

PROGRAM AND THE BOOK OF ABSTRACTS

**JOINT EVENT OF THE 11TH YOUNG RESEARCHERS' CONFERENCE: MATERIALS
SCIENCE AND ENGINEERING**

AND

**THE 1ST EUROPEAN EARLY STAGE RESEARCHERS' CONFERENCE ON HYDROGEN
STORAGE**

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EXAMINATION OF THE INFLUENCE OF NANOMATERIALS CALCIUM PHOSPHATE/POLY-(DL-LACTIDE-CO-GLYCOLIDE) AND COBALT-EXCHANGED HYDROXYAPATITE ON THE VIABILITY OF SAOS-2 CELLS

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We have examined the effect of extracts of the calcium phosphate/poly-(DL-lactide-co-glycolide) (CP/PLGA) and cobalt-exchanged hydroxyapatite (CoHAp), on the viability of Saos-2 osteoblast-like cells. Extracts were prepared by incubation for 3 days at 37⁰C in the cultivation medium. Conductivity and pH value of extracts were measured before viability assay. Cell viability was estimated by MTT test performed after 24 h incubation of cells with various concentrations of extracts. Extract of CP/PLGA acted more cytotoxic on osteoblasts than the extract of CoHAp. This difference in the effect of examined extracts can be explained by their different pH value and conductivity.

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