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HYDROGEN STORAGE INITIATIVE SERBIA**

**PROGRAM AND THE BOOK OF ABSTRACTS**

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

**AND**

**THE 1<sup>ST</sup> EUROPEAN EARLY STAGE RESEARCHERS' CONFERENCE ON HYDROGEN  
STORAGE**

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Nenad Ignjatović**

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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 37<sup>0</sup>C 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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