

BIOTECHNOLOGY CONFERENCE A STEP AHEAD

Under the Patronage of H.E. Sheikh Nahayan Mabarak Al Nahayan

Minister of Higher Education and Scientific Research Chancellor, Higher Colleges of Technology

ABSTRACTS

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average percentage of organ than the wild type offer beer were different from the wild types with regular hundrings mentionation, while higher average weight and lesses lower mean neight than the wish type and higher average sugar content. When growted in the airl, airl, the transperso

plants, thus provided resistance to Rhisemania sick soil. It has mined out that the transformed MM's being can algorithmide appropriate reproduction in argan basis . Western blenning showed that the transports beet multi had honed beet aperials vellage sata visua (BELVVV) sament in

Kermonds: Transpellic beet, RIP, threase resistance, molecular breading

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DO-50

Track: Others - Biswthams!

CADMIUM REMOVAL AND BIOETHANOL PRODUCTION FROM PHYTOREMEDIATION PLANT BY SIMULTANEOUS SACCHARDEPATION AND FERMENTATION (MSF)

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their carcinogenic effects in animals and humany are probably caused by their mutagento to emission of heavy metals. These heavy metals are/toxte because they cause DNA damage and Natural processes such as volcame emptions continental durants and metal working industries lead



technology, which uses plants to remove pollutants them contaminated after bione components of soil and are technically difficult and expensive to implement. Phytoremediation is an emerging used to remediate matal contaminated with. Howevel, these techniques are not fully accetable as they destroy the the ability. Various engineering such as soil excavation, sell washing, or burning or pump and treat system are already being

(g.1.) of bioethanol was produced after 30 hr 75% of sugar yield and 90% of eadminin release were achieved. Furthermore, production of bloethanol from rice straw of cadmium after phytoremediation treatment. When Oxyaa sativa I, was treated by 20% of sulfuric acid and enzymes rice straw (Oyyza sativa 1.) for the remove of cadmifm from contaminated sites. Oyyza sativa 1., was contained 80ppm In this study, bioethanol production and cadmium responds from phytoremediation plant was investigated. We used the simultaneous sacchardication and fermentation (SSF) using Schtzosaccharomyces japonicus was investigated. 15

Keywords: Cadmium, Bioethanol, phytoremediation

PO-65

Track: Plant and Environment

CHEMOTHERAPEUTIC LEAVE IN T. BRUCEI INFECTED RATS ACTION OF METHANOLIC EXTRACT OF THYMUS VULGARIS

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increasing resistance. Therefore, the search for new drugs and formulations that are safe, affordable and effective against Current chemotherapeutic of African trypanesomiasis are beset with different problems including cost, toxicity and haemoglobin (Hb) concentration, packed cell volutine (PCV), red blood cell (RBC), and white blood cell (WBC) of the parasite and extension of surviving days (8 days) than the infected not treated (6 days). Also, there was increased in the both early and late stages of the disease is highly recommended. In this study, the efficacy of locally used medicinal investigated and administered 500mg/kg body weight. The two groups were observed to show low rate of replication of vulgaris in the treatment of trypanosomiaxis was investigated. Two different stages of infection were

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after compared also to infected not breated group. Therefore, this investigation showed that I indeurs has

Andrewsonal harmanshysical parameters

M-22

Marie Britisher

South States Winds Conferen

ELECTROCHEMICAL DOSIMETRY OF GAMMA RAY EMITTED FROM TALLIUM-201 BY OMPEROMETRIC SUPEROXIDE ANION BIOSENSOR

Mentala Shoutian

resource of Barransics, Institute of Biochemistry and Biophysics (IBB), Iran: Email, shortangethb ut ac ir

agreed a species media to ionizing radiation (radiolysis) such as γ-rays produces several reactive oxygen species as a second to the species including superoxide. In this work, at the first step an aqueous media was record applied it for detection of superoxide production. According to this fact, we prepared a cysteme modified and applied it for detection of superoxide. For this purpose, cysteme self-assembled monolayer-modified gold applied it for detection of superoxide as a γ-ray produced reactive oxygen species from Thallium-201. The superoxide samples were produced by direct exposing the γ-ray source in phosphate buffer solution. The same of that through measurement of superoxide produced by γ-ray source, the activity of ionizing radiation are estimated. In the presence of radioisotope, the amperometric detection of superoxide was designated as east response. At the applied potential of ±250 mV (vs. Ag AgCl), the developed sensor was able to detect the γ-ray in the range from 90 μSv h to 1.25 mSv h and a detection limit of 53μSv h. This approach could be useful to detect and dosinted of gamma ray emitted from Thallium-201 to determination of superoxide.

keywards: Thallaum-201, Cysteine Gold electrod, Gamma ray, Dosimetry, Electrochemistry,

70-43

Track: Medical Biotechnology

OPTIMIZATION OF HUMAN INSULIN PRODUCTION PROCESS USING NEW IMPURITY BLOCKING METHOD

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insulin is a peptide hormone which controls the gluco se concentration in blood. The aim of this research is to improve the human insulin production by developing a commercially viable process. I con IM109 pPT-H27Rpi was cultured by three-step temperature shift methods. It gave the final cell weight of 45 g/L and expression content of 69%. The purification steps were inclusion body collection, refolding, and the enzyme reactions. The converted increases and inclusion body collection, refolding, and the enzyme reactions.



was purified by cation-exchange and reverse-phase chromatography followed by cristalization. To block the formation of insulin derivatives and des-threonine insulin, hydrogen peroxide and insulin were used during the enzyme reaction. Combination of H₂O₂ and citraconylation improved the insulin reduction yield to 50%. The overall yield of insulin from the enzyme reaction to final pharmaceutical ingredient was be 1.1 fermentation broth, 0.48 g insulin was produced at cell concentration of 45 g dry cell weight/L. The purity purified insulin was higher than 98.5%. Finally, the expression cell for human insulin was constructed. The insuling and purification processes were optimized. The impurity blocking method, such as, hydrogen peroxide and insuling method were invented to allow the simple and cost-effective downstream process for production of the insuling insuling insuling method were invented to allow the simple and cost-effective downstream process for production of the insuling ins