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Amyloid-beta, a new candidate for study of Bovine Spongiform Encephalitis (BSE)

Amir Afkhami, Hooman Mesgarani

Faculty of Veterinary Medicine, Ferdowsi University of Mashhad (amir.afkhami@ualberta.ca)

The biological significance of protein aggregating diseases of the nervous system has considerably increased during the last decade. While knowing the human neurodegenerative disorders such as Alzheimer's disease (AD), Parkinson's disease (PD), Amyotrophic Lateral Sclerosis (ALS), Creutzfeldt Jakob Disease (CJD) for a long time, a large body of researches are getting focused on Bovine Spongiform Encephalitis (BSE), as its biological-economical importance, as well as the wild and uncontrollable nature of this prion caused neurodegenerative disorder is widely threatening the human society. However, our knowledge about BSE is much less than the other neurodegenerative disorders, as the high infectivity properties of proteinase resistant species of prion protein (PrP-res) makes this peptide more complicated to be used directly in biological studies. Herein, we introduced a specific sequence of the peptide amyloid-beta (1-42) which shows high aggregating behavior, as well as neurotoxic properties in cultured rat primary neurons isolated from 17d old rat fetus neuronal stem cells. Using the In-cell western analysis the neurotoxicity of this aggregated form of the peptide was shown as a decrease in cell-structural beta-tubulin protein immunoreactivity. We have also evaluated the genotoxic properties of this peptide sequence using COMET assay by measuring the area of the genomic DNA shift by fluorescent microscope imaging under a field of electrical charge. These aggregating neurotoxic/genotoxic properties of amyloid-beta if to be hold true in vivo as well, makes it of benefit to be used as a bio-safe alternative for PrP-res in biological studies.

Keywords: Bovine Spongiform Encephalitis (BSE), prion protein, amyloid-beta, neurotoxicity, genotoxicity, neurons

Survey of aflatoxin B1 in bakers and confectionery of the wheat flour in Babol, Iran.

Faterh Rezaii* Issa Gholampour Azizi**

**Member of Young Researchers Club, ** Islamic Azad University, Babol Branch (fungi_vet2002@yahoo.com)*

Aflatoxins are severe toxic secondary metabolites and found in most plant products. Aflatoxins are acute toxic compounds, immunosuppressive, mutagen, teratogen and carcinogen. This study was in bakers and confectioneries of the wheat flour samples from Babol's rural and urban in summer, autumn 2007 and winter, spring 2008. There were tested for aflatoxin B1 (AFB1) contamination by competitive ELISA. In ever season were selected 15 urban bakers' wheat flour samples, 15 rural bakers' wheat flour samples, 6 urban confectioneries' wheat flour samples and 6 rural confectioneries' wheat flour samples. In total 168 samples were selected of the randomize from Babol's bakers and confectioneries. The presence of AFB1 were detected in 120 bakers of the wheat flour samples were 6.6%, 48 confectioneries of the wheat flour samples were 6.3% that in general 6.5% of the samples (concentration of the mean 0.83 µg/kg) above of European community regulations (2 µg/kg). In other words the AFB1 contamination levels in wheat flour were more than 3 fold above standard levels. Whereas in the bases Iranian standard regulations (5 µg/kg) were detected the AFB1 contamination only 1.6% rural and urban bakers' wheat flour samples. The presence of AFB1 was detected in concentration mean 0.93, 0.77, 0.89 and 0.49 µg/kg respectively. The highest contamination was observed in winter and the lowest contamination was observed in summer and autumn. In northern Iran due to favorable aflatoxigenic moulds growth especially in cold seasons, some measures should be taken in production, processing and storage of food.

Keywords: Aflatoxin B1, wheat flour, baker and confectionery

Certificate of Participation



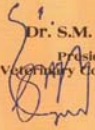
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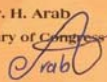
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بابت ارائه مقاله در " اولین کنگره بین المللی فارماکولوژی و علوم داروئی دامپزشکی " که در روزهای ۱۴ - ۱۳ مهرماه ۱۳۸۷ در تهران، مرکز همایش های رازی برگزار گردید ۲۵ امتیاز بازآموزی کسب نموده است.

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