Accepted Manuscript

Polycyclic Aromatic Hydrocarbons' Formation and Occurrence in Processed Food

Lochan Singh, Jay G. Varshney, Tripti Agarwal

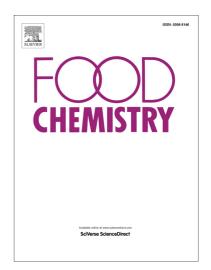
PII: S0308-8146(15)30352-6

DOI: http://dx.doi.org/10.1016/j.foodchem.2015.12.074

Reference: FOCH 18553

To appear in: Food Chemistry

Received Date: 23 September 2015 Revised Date: 7 December 2015 Accepted Date: 16 December 2015



Please cite this article as: Singh, L., Varshney, J.G., Agarwal, T., Polycyclic Aromatic Hydrocarbons' Formation and Occurrence in Processed Food, *Food Chemistry* (2015), doi: http://dx.doi.org/10.1016/j.foodchem.2015.12.074

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

1	Polycyclic Aromatic Hydrocarbons' Formation and Occurrence in Processed
2	Food
3	Lochan Singh, Jay G. Varshney and Tripti Agarwal*
4	National Institute of Food Technology Entrepreneurship and Management
5	Kundli, Sonipat, Haryana-131028
6	*Corresponding author Email: tripti.niftem@gmail.com
7	
8	Abstract:
9	Polycyclic Aromatic Hydrocarbons (PAHs) emerged as an important contaminant
LO	group in a gamut of processed food groups like dairy, nuts, herbs, beverages, meat
l1	products etc. Different cooking processes and processing techniques like roasting,
12	barbecuing, grilling, smoking, heating, drying, baking, ohmic-infrared cooking
13	etc. contribute towards its formation. The level of PAHs depends on factors like
L4	distance from heat source, fuel used, level of processing, cooking durations and
15	methods, whereas processes like reuse, conching, concentration, crushing and
16	storage enhance the amount of PAHs in some food items. This review paper
L7	provides insight into the impact of dietary intake of PAHs, its levels and
18	formation mechanism in processed food items and possible interventions for
19	prevention and reduction of the PAHs contamination. The gaps and future
20	prospects have also been assessed.
21	Keywords: - Polycyclic Aromatic Hydrocarbons (PAHs); Food Processing;
22	Human health.

Download English Version:

https://daneshyari.com/en/article/7589644

Download Persian Version:

https://daneshyari.com/article/7589644

<u>Daneshyari.com</u>