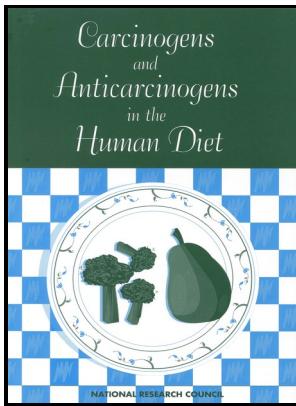


# Food borne carcinogens - heterocyclic amines

Wiley - The Link Between Grilled Foods and Cancer



Description: -

- Cancer -- Nutritional aspects.
- Food -- Toxicology.
- Heterocyclic compounds -- Carcinogenicity.
- Aromatic amines -- Carcinogenicity.
- Food borne carcinogens - heterocyclic amines
- Current toxicology series
- Notes: Includes bibliographical references and index.
- This edition was published in 2000



Filesize: 29.46 MB

Tags: #Potential #sources #of #carcinogenic #heterocyclic #amines #in #the #Chinese #diet: #results #from #a #24

**Metabolic activation of carcinogenic heterocyclic aromatic amines by human liver and colon — Experts@Minnesota**

AU - Turesky, Robert J.

## Foodborne Chemicals

Petasitenine and senkirkine are responsible for the carcinogenicity of two kinds of coltsfoot, P. Each derivative bound covalently with DNA at neutral pH 7. Toxicologists may also play a role in assessing adverse effects.

**0471983993**

Table illustrates the mean values of the HCAs and their equivalent standard deviations achieved from three standard addition calibrations spiked at different levels. Genistein is a kind of isoflavone abundant in soybeans, with genistein as its glycoside.

## Does Burnt Food Cause Cancer?

Dietary Cadmium Intake and Sources in the US.

**Food borne carcinogens : heterocyclic amines (Book, 2000) [public-docs.talentcoach.ir]**

Human liver microsomes catalyzed the uridine 5'-diphosphoglucuronic acid UDPGA -dependent glucuronidation of N-OH-IQ, N-OH-PhIP, N-OH-Glu-P-1 and N-OH-MeIQx at rates of 59%, 42%, 35% and 27%, respectively, of that measured for N-OH-ABP 11. Cumin, coriander, galangal and Chinese ginger also inhibit HCAs. Airborne mutagens produced by frying beef, pork, and a soy-based food.

## Food

Some heterocyclic amines HCAs found in cooked and especially burned meat are known. Acetyl coenzyme A AcCoA -dependent, cytosol-catalyzed DNA binding was greatest for N-OH-ABP and N-OH-Glu-P-1, followed by N-OH-PhIP, N-OH-MeIQx and N-OH-IQ; and both rapid and slow acetylator phenotypes were apparent.

## **Heterocyclic amine**

It should be noticed that the relative risk for cancer by smoking shows much higher values: the relative risk for lung cancer in heavy smokers is around 20. Despite the presence of some toxic chemicals in breast milk, the benefits of breastfeeding outweigh the presumed risks to the baby. For example, heterocyclic amines are the carcinogenic chemicals formed from the cooking of muscle meats such as , , , and .

## Related Books

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