

# Tobacco in Australia

## Facts & Issues

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### Relevant news and research

#### 3.3 Smoking and cancer

*Last updated August 2020*

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### *3.3.1 Carcinogens in cigarette smoke*

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### *3.3.2 Genotoxic effects of cigarette smoke*

#### *3.3.2.1 DNA is the main target of genotoxic carcinogens*

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### *3.3.2.2 Activation of carcinogens to form DNA adducts*

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### 3.3.2.3 Conversion of DNA adducts to mutations

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### 3.3.4 Loss of normal cell growth control mechanisms

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### *3.3.1 Carcinogens in cigarette smoke*

### *3.3.2 Genotoxic effects of cigarette smoke*

#### *3.3.2.1 DNA is the main target of genotoxic carcinogens*

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*3.3.2.2 Activation of carcinogens to form DNA adducts*

*3.3.2.3 Conversion of DNA adducts to mutations*

*3.3.3 Non-genotoxic effects of cigarette smoke*

*3.3.4 Loss of normal cell growth control mechanisms*

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