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Introduction

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Sources of Airborne Nanoparticles

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Combustion Processes

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Industrial Emissions

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Natural Sources

Mechanisms of Genotoxicity

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Oxidative Stress

), A,

- **DNA Damage:** - ( ) - ( ) A,

Inflammation

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- **Cytokine Release:** A

Direct Interaction with DNA

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- **Transcriptional Regulation**:

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Health Implications

:

Cancer

4 .

- **Mechanistic Evidence**: A

Respiratory Diseases

( ),

- **Cellular Response**:

Cardiovascular Effects

5 ,

- **Systemic Effects**:

Neurotoxicity

- **Blood-Brain Barrier**:

Regulatory Implications

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Exposure Assessment

6 .

Risk Characterization

Emission Control

Public Awareness

Future Directions

7 ,

Conclusion

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