Toxicology: Open Access

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**Ke words:**

## Introduction

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2,3 .

- **Metabolomic biomarkers:**

- **Epigenetic biomarkers:**

## Cutting-edge technologies in to icit biomarker research

- **Omics technologies:**

- **Biosensors:**

## Challenges and future directions

- **Comple it of Interactions:**

## Conclusion

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