

**Keywords:** *Abstract text describing the study's focus and key findings.*

**Introduction:** *Background information and the purpose of the study.*

*Main body of text, likely containing the first paragraph of the introduction or a section of the discussion.*

*Main body of text, likely containing the second paragraph of the introduction or a section of the discussion.*

**Introduction Methodology:** *Details of the study's methods and procedures.*

**Conclusion:** *Summary of the study's findings and their implications.*

*Main body of text, likely containing the third paragraph of the introduction or a section of the discussion.*

- **HL C** *Reference or citation information.*
- *Another reference or citation.*

- **M**icrofluidic platforms allow for the precise control of cell culture conditions, enabling the study of chemical toxicity in a more physiologically relevant context.
  - **E**nterohepatic models, such as the liver-on-a-chip, provide a more comprehensive understanding of the metabolic and toxicological pathways of chemicals.
  - L**iver-on-a-chip models have been used to study the toxicity of various chemicals, including pharmaceuticals and environmental pollutants.
  - **C**ultured primary cells and organoids provide a more realistic representation of the target organ's structure and function.
  - **C**ultured primary cells and organoids are used to study the toxicity of chemicals in a more physiologically relevant context.
- O**rgan-on-a-chip models, such as the liver-on-a-chip, provide a more comprehensive understanding of the metabolic and toxicological pathways of chemicals.

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