



Parkinson's Disease and Paint

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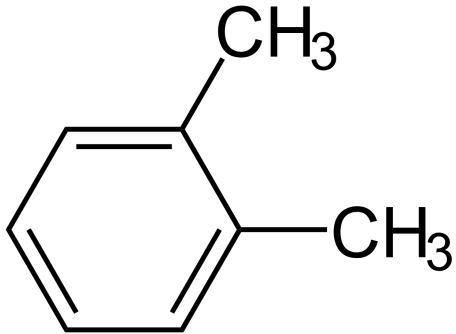
What is Parkinson's Disease?



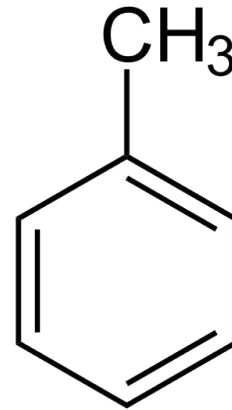


The Molecule

Substances



Ortho-xylene



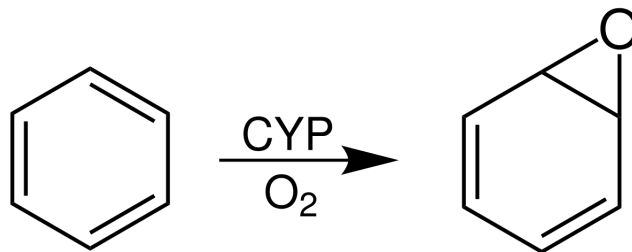
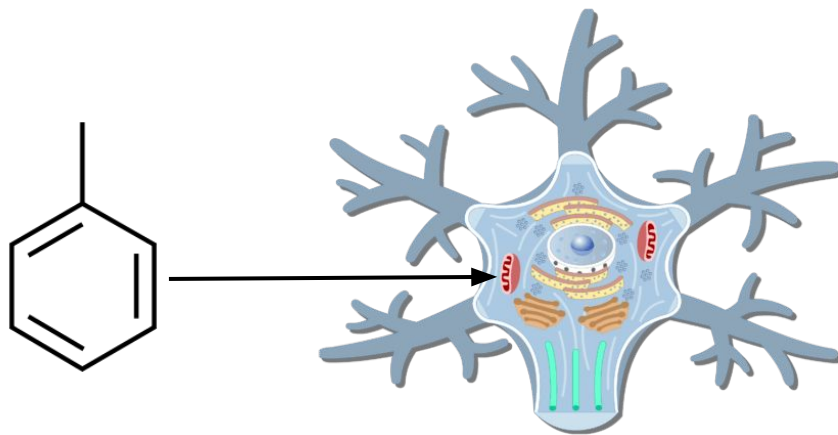
Toluene

Dangers

- Parkinson's Disease
- Damage upon body contact
 - Absorbed through the skin and inhalation
- Carcinogenic (*increased risk for cancer*)
- Fetotoxic (*danger to developing fetus*)
- Damaged Lungs



The Neuron



Interaction of Aromatics and the Neuron

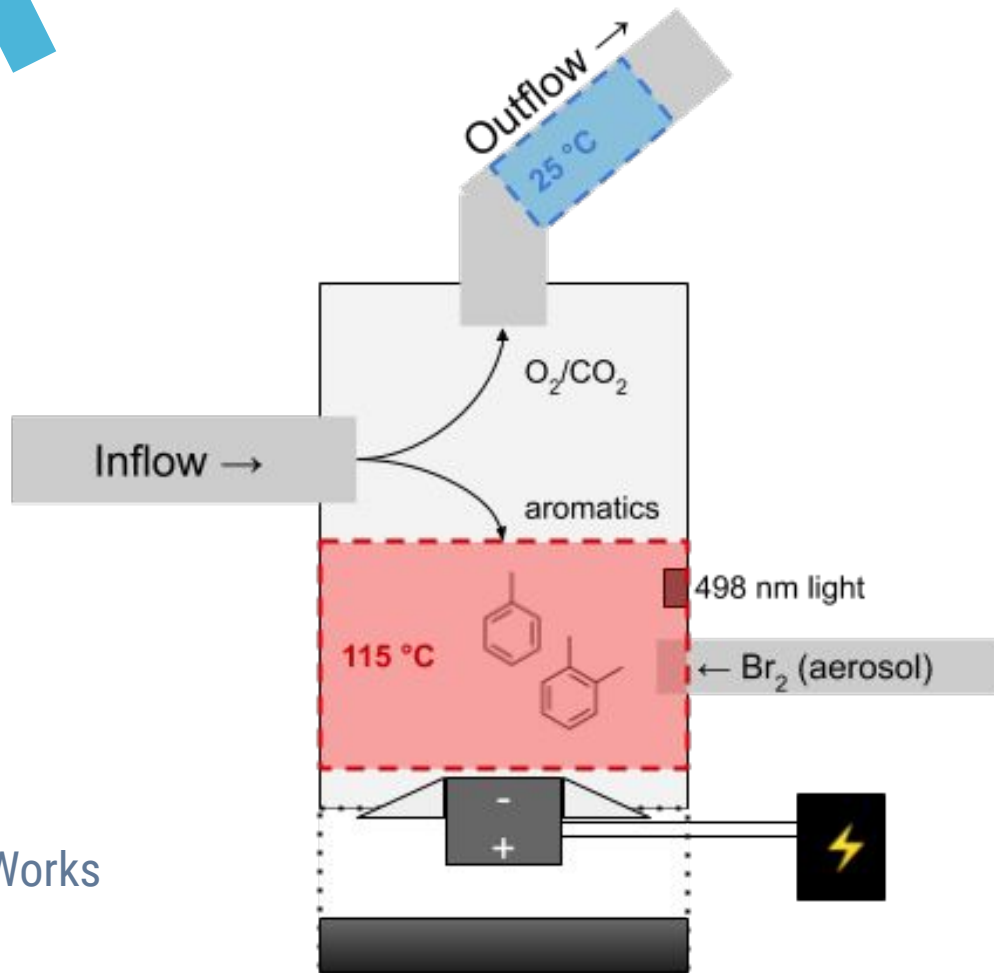


The Solution

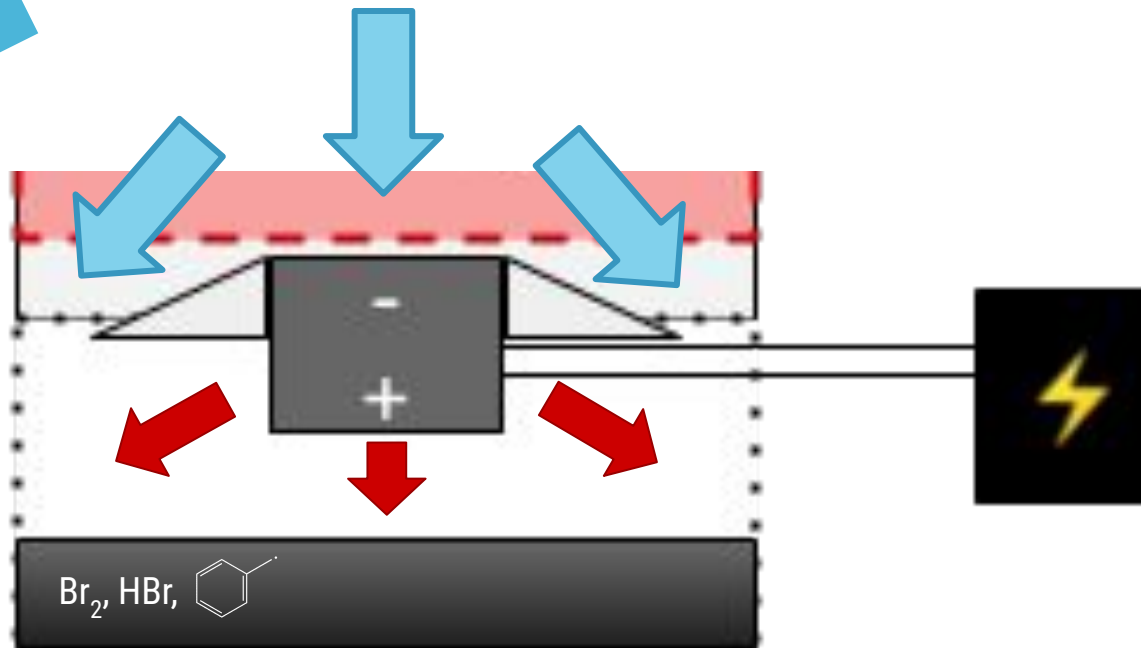




The Product



How It Works



Collection Container

Other Solutions?



Future Direction



Our Future Goals are to...

- Integrate our solution with other substances
- Consult experts
- Run simulations
- Prototype/Experiment cycle
 - Test efficiency
- Release to market



Sources



Sources

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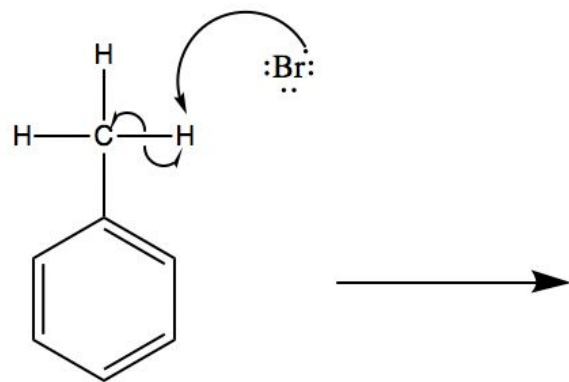
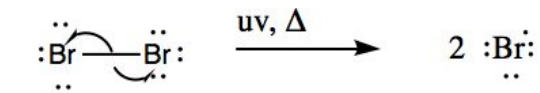
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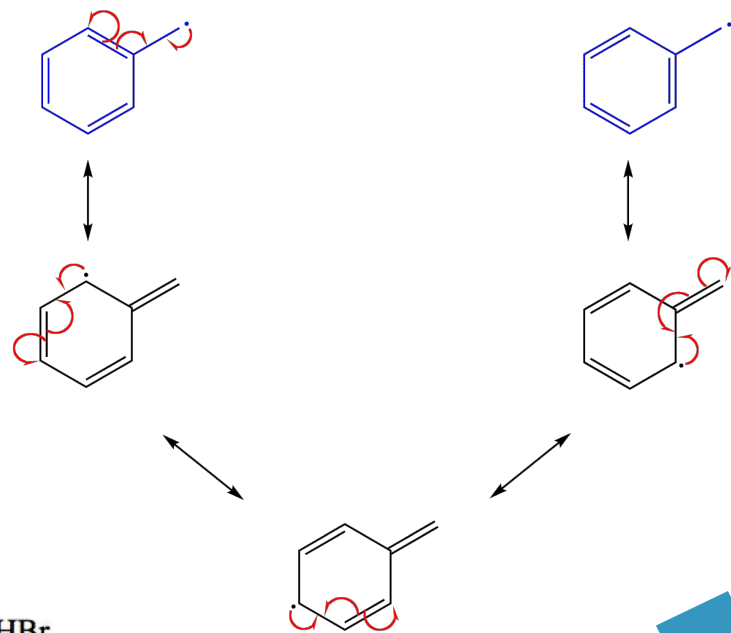


Questions?



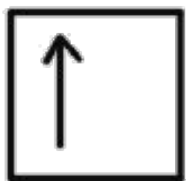
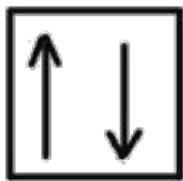
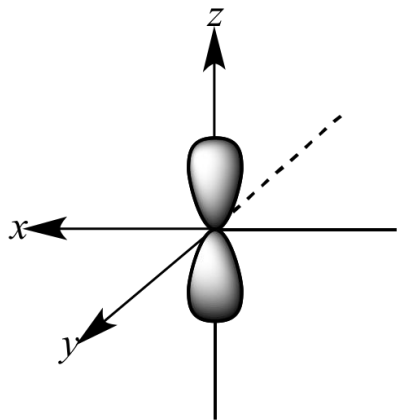
Bromination Mechanism

Radical Stability



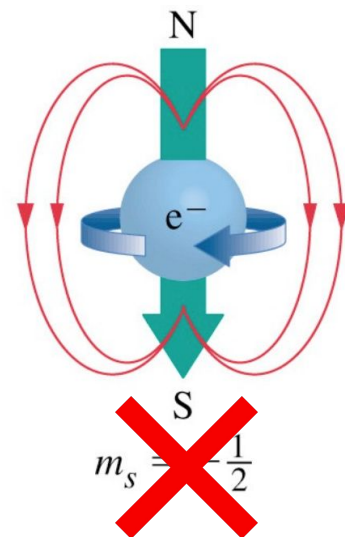
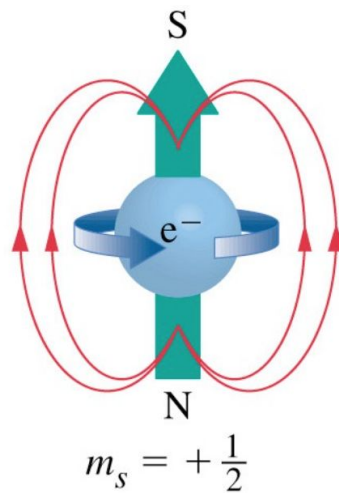
+ HBr

Carbon p orbital



Fully filled vs. Radicalized orbitals

Radical Magnetism



Result: Net positive magnetic spin

Attracted to strong
magnetic field