



How did we come across this idea?

Eight of new research on the discovery of heavy use of plastics including water bottles, car parts and other materials used for storage can show a big role on our health. Coming across a research done on lab rats the chemical compound that is released from a used water bottles BPA left me concerned. BPA is released when a simple water bottle has been removed from room temperature to a higher degree of heat. As I come across multiple items that are carriers of BPA the water bottle would be the best agent to justify the daily contact that come into with BPA. As well my interest in developing these effective ways in producing safer materials and production of these materials to reduce or eliminate side effects in our day to day lives.

Possible Design

A set up of three metal used water bottle with the labels identifying each water bottle. The idea would be to test each water bottle and give each one a different type of environment demonstrating the release of BPA. With that, we would collect enough information to try to understand the chemical compound of BPA and its harmful side effects. Working along side our Professor to assist us with further lab use and an additional outlook on possible lab work.

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Studies have shown

When a 20 or 300 milligram daily ingestion level of bisphenol A (BPA) was intentionally administered to adult mice and up to 4 days and the effects on the eye were investigated by electron light microscopy. Microscopical were observed in the aqueous humor, corneal vessels, corneal cap, conjunctiva and nuclei of the ganglion were heavily affected. The endoplasmic specialization between the basal cell and apical nucleus, subnuclear vesicles, specialization and vesicles were observed. Fat and even granular material in BPA. There were no dose dependencies between the 20 and 300 milligram body weight ingestion group. The endoplasmic specialization between adjoining lamellae cells or fibroblastic barrier may not affect these similar apical effects were observed when adult mice were treated with low chemical. Because the effects of BPA reported here seem to reflect the estrogen effects on the brain, additional data for an additional two months after cessation of the administration were shown to be female and the water showed normal findings, indicating that the adverse effects were reversible.

Message in a Bottle

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BPA

A deeper look into BPA is a well known endocrine disruptor used as a monomer in the manufacture of dental resins, epoxy resins and polycarbonate plastics that have extensive use in dentistry or medicine, in food packaging industry and plastics' products.

CONCLUSION:

There is no doubt about it, we live in a plastic world, where every plastic thing has bisphenol (BPA), our research tells us that BPA can lead us on having a higher risk of certain cancers reduce fertility, birth defects and diabetes, however there are some plastic containers that are BPA free or sticking to glass were to prevent contact with BPA.

