



NTP

National Toxicology Program
U.S. Department of Health and Human Services

NTP Board of Scientific Counselors Meeting

DNTP Research Program Introduction Headlines

December 2020 – October 2021

We appreciate your valuable feedback!

DNTP programs have been **implementing feedback** and suggestions from the **NTP Board of Scientific Counselors**





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The **Occupational and Inhalation Exposures** program updated the program plan to consider evaluating chemical and non-chemical stressors to **reflect the complexity of real-world exposures.**



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The **Combined Exposures and Mixtures** program refined the program objectives to **build** from the simple, component-based approach to the more challenging and **paradigm-shifting disease-based approach**.

DNTP Research Program Introduction Headlines



The **Novel Tools and Approaches program** will ensure that **novel test systems** are grounded in physiological responses and are **translatable to in-vivo human exposures**.

DNTP Research Program Introduction Headlines



The Emerging Contaminants and Issues of Concern program refined the criteria for projects addressing **real-world exposures, including those that may contribute to **environmental health disparities and injustice**.**

DNTP Research Program Introduction Headlines



The **Safe and Sustainable Alternatives program** will expand the breadth of **external engagement** regarding safer alternatives and will advance strategically identified **case studies** to deliver on stated objectives.

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Encouraged to focus on human-relevant approaches, the **Carcinogenicity Health Effects Innovation** program launched a project to conduct **multi-omics analyses of clinical samples** to better understand the connection between **environmental exposures and cancer**.

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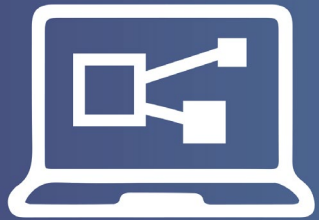
The **Consumer Products and Therapeutics** program expanded the program plan to incorporate exposure data and the **exposome**. The expanded program plan will also include **consumer product chemical manufacturers among the stakeholders** as part of a broadened, class-based methodologies approach.



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Recognizing the need to support a spectrum of users, the **Scientific Cyberinfrastructure program** will increase emphasis on **training to enhance data literacy**. Aligning training with project-specific data management plans will be a component of this increased emphasis.

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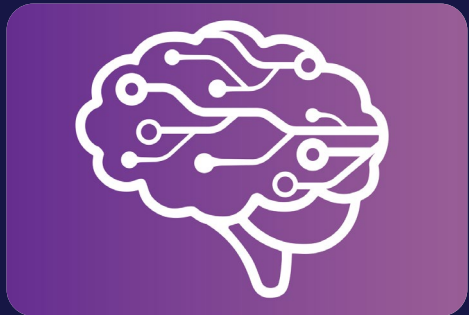
The **Cardiovascular Health Effects Innovation** program incorporated **human-relevant, translational information** into the program plan to improve the identification of environmental cardiovascular hazards and the **predictivity of mechanistic approaches**.



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The **Developmental Neurotoxicity Health Effects Innovation** program is developing an **in-silico data aggregation tool** that can be leveraged to **evaluate** chemical nominations of potential **novel neurotoxicants**.

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Health Effects Innovation Programs



Strengthening Capabilities Programs



Responsive Research Programs



Exposure-based Research Programs



All Programs embraced the consistent emphasis from BSC members to build better and broader partnerships by strengthening **internal cross-program coordination** and by engaging with an **increased variety of external stakeholders.**