

Office of Health Assessment and Translation (OHAT) Concepts: Introduction

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NTP Assessment and Translation

- Non-cancer (OHAT) and cancer (ORoC)
- Literature-based evaluations, workshops, research projects
- Conduct translation research
 - Literature-based evaluations using systematic review methods
 - Primary research projects
 - Draft OHAT Concept: NIEHS-EPA Collaborative Project to Improve Characterization of Personal Care Product and Home Exposures
- Provide context to Tox21 and other mechanistic data
 - Draft OHAT Concept: Inflammation-based Atherosclerosis Associated with Environmental Exposures



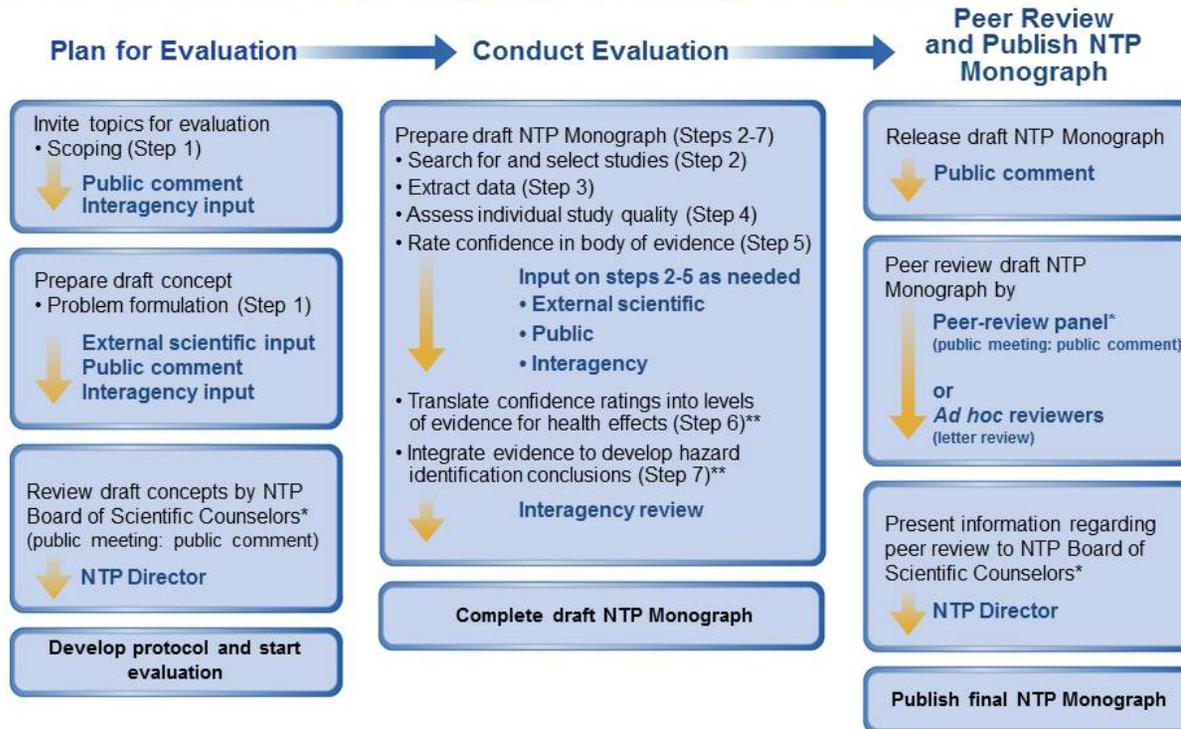
Research Translation: 2008 NTP-CERHR Monograph on Bisphenol A

- BPA human pharmacokinetic studies (oral, dermal)
- Cashier pre- and post-shift study (BPA, BPS, other BPA alternatives)
- BPA analogues (~30 key analogues)
 - Systematic review of literature
 - Similarity profiling using ToxCast/Tox21
 - Zebrafish developmental assays (Robert Tanguay at Oregon State)

Research Translation: 2011 Workshop “Role of Environmental Chemicals in Diabetes/Obesity”

- Arsenic, cadmium, selenium in T1D and T2D pediatric samples collected from SEARCH case-control
 - Mirek Styblo (UNC-Chapel Hill), Ana Navas-Acien (Johns Hopkins), SEARCH PIs
- Measurement of NHANES chemicals in pregnant Danish women enrolled in prospective study to look at obesity-related measures in offspring
 - (Elizabeth Hatch, Boston U)
- Analytical method development for speciated organotin analysis in serum

OHAT Process: Bringing Concepts to the BSC



Steps 1–7 refer to the OHAT Approach for Systematic Review and Evidence Integration for Literature-Based Environmental Health Science Assessments; for details see <http://ehp.niehs.nih.gov/1307972/>

* federally chartered advisory group

** not included in state of science evaluation