

# **New Approach Method (NAMs) Priorities for the Human Foods Program**

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# Commitment to Advancing the Development and Regulatory Use of NAMs

- HFP has a long-standing commitment to promote the development and use of new technologies to evaluate and predict the safety of regulated products.
- HFP has a broad research program aimed at developing NAMs for regulatory use. This includes, work done in our laboratories, collaborations across government agencies and working directly with developers.
- HFP has identified several top priorities for NAMs development based on historical actions.

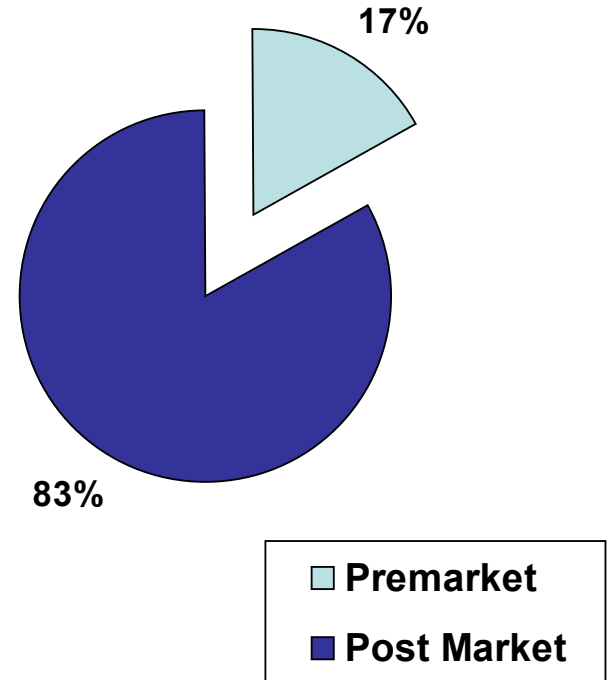
Advancing New Alternative Methodologies at FDA



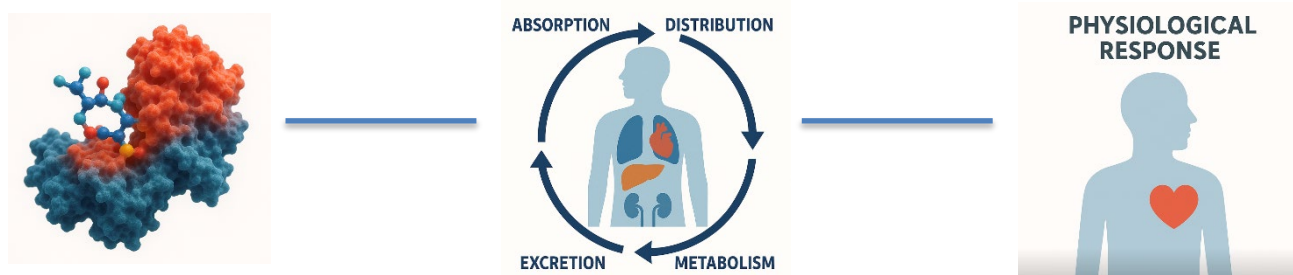
SCAN ME

## Contrast to Medical Product Centers

- Authorities
- Postmarket vs Premarket
- Chronic vs. Acute toxicity issues
- Variable exposure vs. Steady state
- Mixtures vs. Single component



# Foods / Drugs – Different Approaches



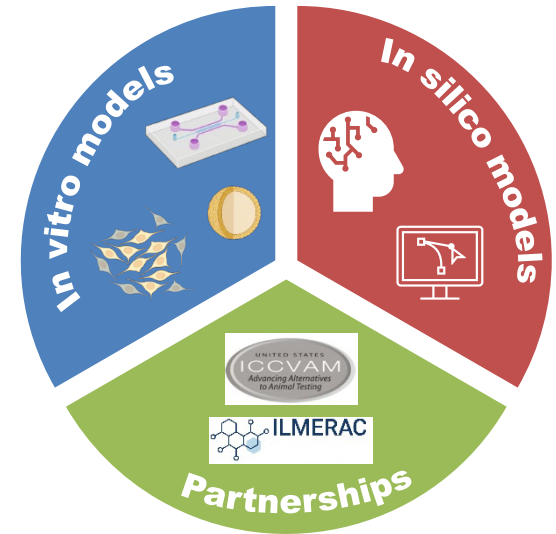
Specific Pathway or target

Context of use

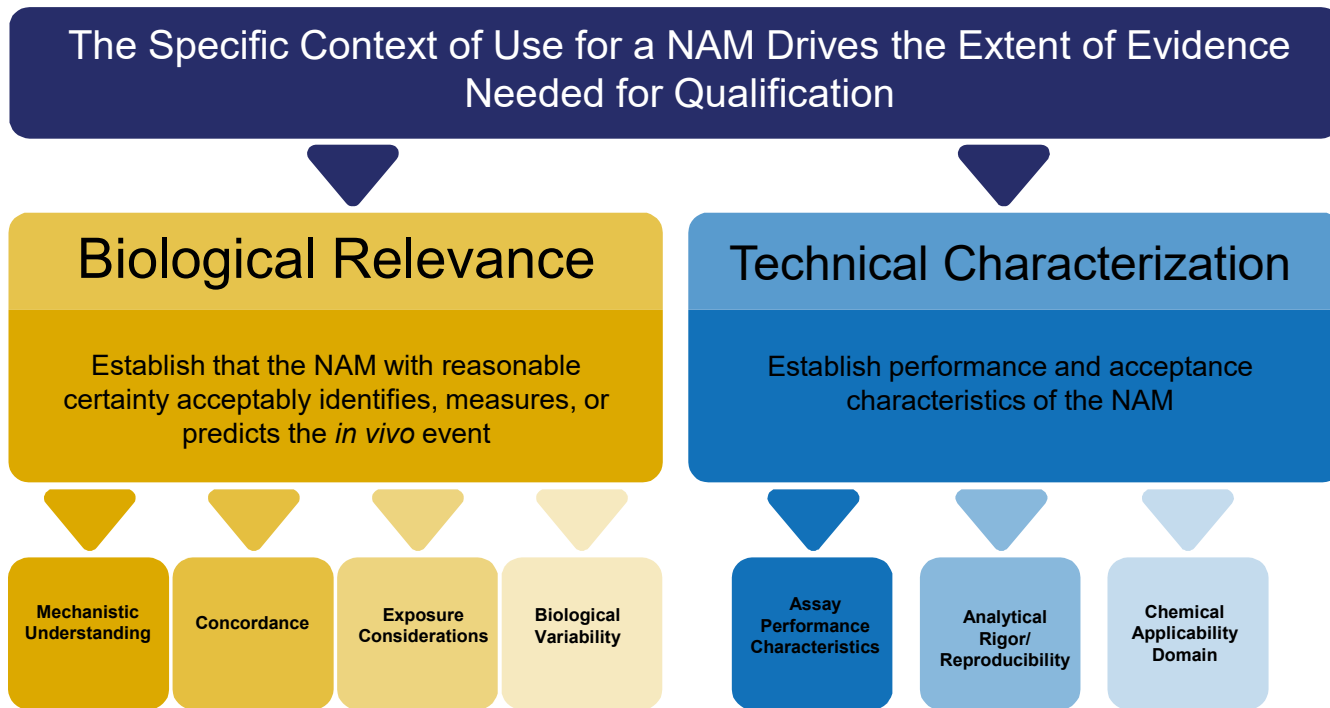
Context of toxicity

# HFP Priorities on NAMs

- Specific HFP priorities:
  - Evaluate new technology/approaches
    - Focus areas – Developmental Neurotoxicity, Vascular Cardiotoxicity and Hepatotoxicity
  - Develop *in silico* approaches (QSAR, read across, etc.)
  - Intersection of diet, gut microbiome and chronic disease
  - Develop partnerships to enhance in-house research
  - Global activities



# Scientific and Analytical Criteria for Acceptance for New Approach Methods for Food Chemicals



# Essential Elements for Adoption

## Relevance!

- Reproducibility, ruggedness and cost
- More than hazard identification
- Predictive of *in vivo* effects
- Do the results account for relevant PBPK and exposure estimates
- Translatable to human



# Thank you!



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