

NCI Division of Cancer Treatment and Diagnosis:

An Overview of Resources Available for Extramural Scientists

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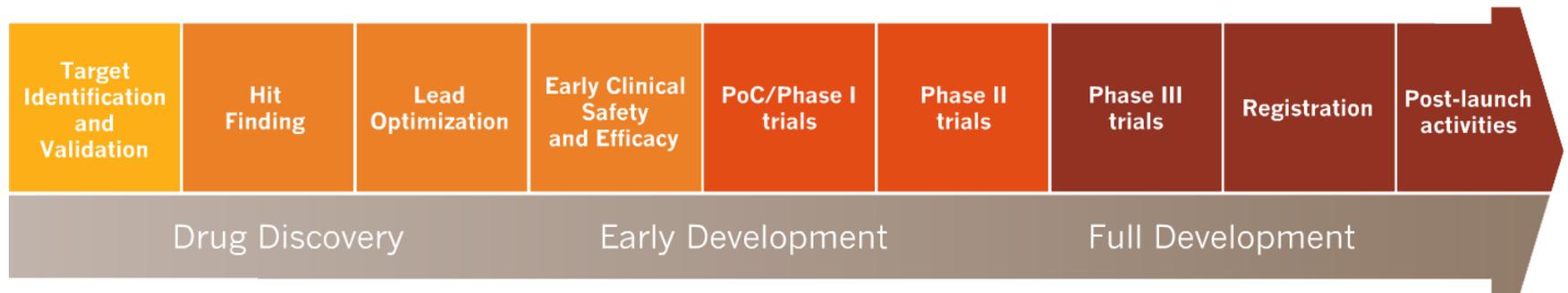
NExT Pipeline:

Rapid Access to Intervention
Development (RAID)

IND-supporting
clinical studies

Drug Development Group
(DDG)

Early clinical studies through
NCI-sponsored clinical trial(s)



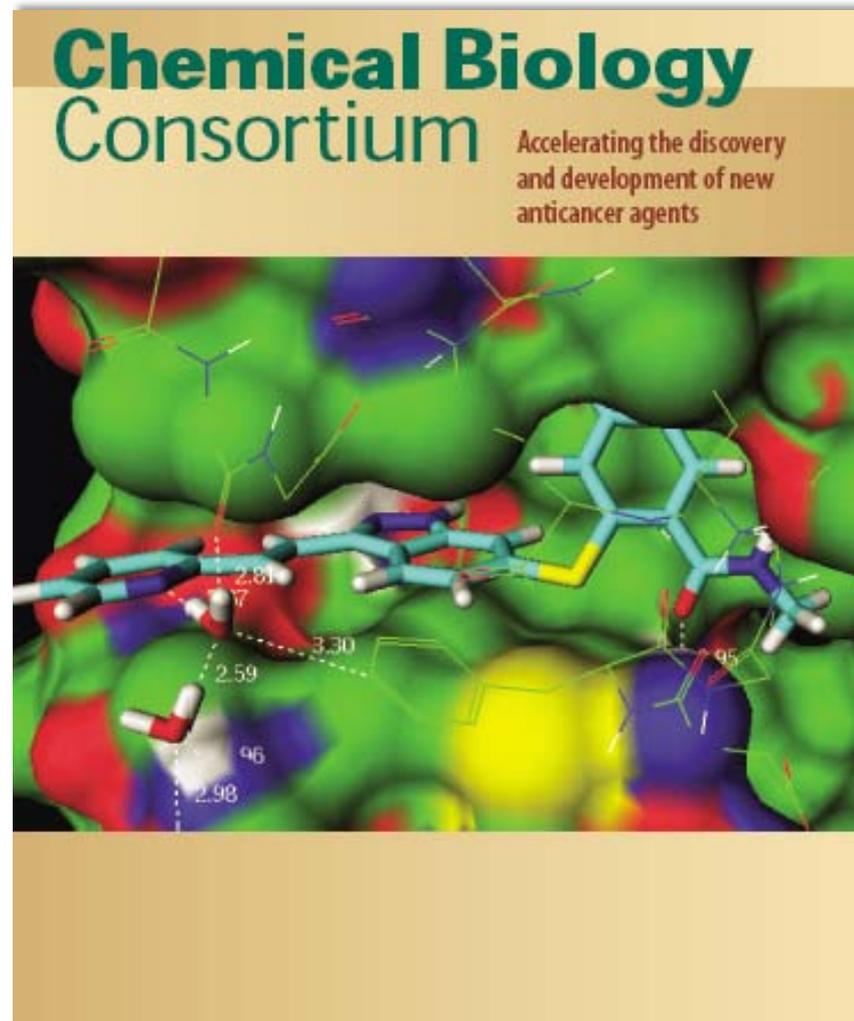
Chemical Biology Consortium
target discovery through clinical candidate

Mission: provide resources and to develop treatments for cancer therapy and deteciton.

Overview of NExT Development Functions

- Directs R & D contracts to prioritize drug discovery and development (active role).
 - NCI-held IND: Drug Development Group (DDG).
 - Investigator-held IND: RAID, DCIDE.
- Contract Activities:
 - Discovery: screening, informatics, repositories, R*A*N*D.
 - Development: formulation, *in vivo* testing, bulk synthesis, pharmacology, toxicology
- Access to External Cooperative group clinical trial resources
- DTP also manages grants pertinent to drug discovery, biochemical pharmacology (passive role).

The Chemical Biological Consortium: A New NCI Initiative



Adapted from Pfizer Oncology

Developmental Therapeutics Program

- ❖ Provide access to DCTD pre-clinical contract research resources to academic/small business community (Managed by DCTD Staff)

- ❖ Examples of DTP “RAID-like” tasks:
 - ★ acquire/formulate bulk drug
 - ★ produce biologicals
 - ★ test efficacy of agent in animals
 - ★ pharmacology/toxicology studies

- ❖ Natural Products Branch – Natural Products Repository

- ❖ Screening activities/Repositories

RAID

- ❖ Provide access to DCTD pre-clinical contract research resources to academic/small business community (Managed by DCTD Staff)
- ❖ Allow studies to occur under investigator or academic center sponsorship instead of NCI
- ❖ Examples of RAID tasks:
 - ★ acquire/formulate bulk drug
 - ★ produce biologicals
 - ★ test efficacy of agent in animals
 - ★ pharmacology/toxicology studies
- ❖ Bridge the gap between a LEAD DISCOVERY and a DRUG
- ❖ Traditional focus is on Academic researchers

Clinical Trial Evaluation Program

- ❖ Provide access to extramural cooperative group clinical trial resources
- ❖ Provides regulatory support for investigator-held and NCI held IND filings.
- ❖ Phase 1, Phase 2 and Phase 3 clinical trials all supported
- ❖ Generally requires a CRADA and an understanding of the IP option to collaborator.
- ❖ Traditional focus is on large pharma, but willing to provide assistance for smaller companies seeking resources for clinical trials.

Cancer Imaging Program (CIP)

- Imaging probes under current CIP IND
 - Assist PIs with regulatory issues
 - Facilitate access to some probes
 - PET Drugs: FLT, FMISO, FES, NaF
- Imaging probes under RDRC or other IND
- Extramural investigators – DCIDE Program
- ICBIO: Confidential forum for PIs with NCI/FDA/CMS
- <http://imaging.cancer.gov/>



NExT Request for Proposal

Extramural scientists may apply for NCI Resources via the NExT Pipeline

<https://dctd.cancer.gov/nextapp> or
<https://dctd.cancer.gov/nextregistration>

The screenshot shows the NCI Experimental Therapeutics (NExT) application login page. At the top, there is a red header bar with the National Cancer Institute logo and the text "National Cancer Institute" on the left, and "U.S. National Institutes of Health | www.cancer.gov" on the right. Below the header, the page title is "NCI Experimental Therapeutics (NExT)". Underneath the title, there are two logos: "DCTD Division of Cancer Treatment and Diagnosis" and "CENTER FOR CANCER RESEARCH". A banner image with the text "NExT Application Login" is displayed. Below the banner, there is a button labeled "NExT application instructions". The login section includes a "User Name:" label with an input field, a "Password:" label with an input field, and a "Login" button. Below the login fields is a button labeled "Register for an account". At the bottom of the page, there is a line of text: "If you have any problems or questions about this application please contact [Dave Segal](#)". At the very bottom, there is a footer with navigation links: "DCTD Home | Text-only | Contact DCTD | Site Map | NCI Home | Accessibility | Policies" and logos for the National Cancer Institute, the Department of Health and Human Services, and USA.gov.