

**Public Summary
Investigational Drug Steering Committee (IDSC)
Friday, July 15th, 2011**

1) Call to Order, Introductions and Review of Minutes

- a) **Motion 1:** The IDSC meeting minutes from June 15, 2011 call were approved.
- b) **New IDSC Members:** Mac Cheever (Cancer Immunotherapy Network PI), Diana Chingos (patient advocate), Patrick Wen (Adult Brain Tumor Consortium), and James Yao (new MDA N01 PI)
- c) **Coordinating Center for Clinical Trials (CCCT) update (Reeves):**
 - i) IDSC subject expert rotation for biostatistics, imaging, and immunotherapy were discussed. IDSC Subject Matter Experts serve a term of three years with a possible renewal of another three years.
 - ii) Mario Sznol (immunotherapy), Don Berry (biostatistics) and Anthony Shields (imaging) will serve until the end of 2011. Susan Groshen's (biostatistics) term will be extended until the end of 2012.
 - iii) Deb Barton (IDSC liaison to SxQOL SC) is departing but will serve until the end of 2011; SxQOL SC will be asked to propose replacement.
- d) **Cancer Therapy Evaluation Program (CTEP) update (Zwiebel):** James Zwiebel (IDB Chief) discussed the U01/N01 pre-solicitations (ARQ-197, MLN-8237, and OSI-906), mass solicitations recently released (ARQ-197, AMG-386, and TRC-105), and the additional planned solicitation schedule for 2011-2012.

2) CTEP Drug Development Plan – SCH900776 (Chk1; Doyle)

- a) CTEP is planning to add the Chk1 inhibitor, SCH900776 to its portfolio (*further information is confidential*). Dr. Austin Doyle presented a reprioritized plan to the IDSC.
- b) The IDSC endorsed the reprioritized SCH900776 development plan with some modifications.

3) CTEP Drug Development Plan – MK-1775 (Wee1; A. Chen)

- a) CTEP is planning to add the Wee1 inhibitor, MK-1775 to its portfolio (*further information is confidential*). Dr. Alice Chen presented a reprioritized plan to the IDSC.
- b) The IDSC endorsed the reprioritized MK-1775 development plan with some modifications.

4) CTEP Drug Development Plan – SGN-35 (monoclonal antibody to CD30; Espinoza-Delgado)

- a) CTEP is planning to add the monoclonal antibody to CD30 (SGN-35) to its portfolio (*further information is confidential*). A limited testing plan has been developed for this agent upfront.
- b) No mass solicitation will be developed for this agent. This was presented as an FYI to IDSC members.

5) Presentation of the Cancer Immunotherapy Network (CITN; Cheever):

- a) **Goals for the CITN:**

Non-Confidential

- i) Establish a productive network of leading investigators/institutions to implement early phase cancer immunotherapy trials.
- ii) Design & conduct novel biologically dictated early phase trials using agents/combinations to demonstrate proof of concept essential to proceed to Phase III pivotal trials.
- iii) Provide high quality immunogenicity & biomarker data that elucidate mechanism of response.

b) CITN Mission

- i) The CITN is an NCI funded network of highly experienced immunotherapy investigators
- ii) Mission: To select, design and conduct early phase trials using priority agents with known and proven biologic function and to provide the high-quality research data essential to develop effective treatments for patients.
- iii) Strategy:
 - (1) Focus on trials likely to achieve the optimal/quickest route to
 - (a) Proof of Concept
 - (b) Demonstration of patient benefit
 - (c) Regulatory approval
 - (2) To focus on agents & formulations likely to achieve commercialization

c) Categories of Immunotherapy

- i) Vaccines
 - (1) To activate and expand the number of patient T cells capable of specifically killing cancer cells
- ii) Autologous T cell therapy
 - (1) To treat with large numbers of cultured autologous T cells
- iii) Antibody therapy
 - (1) To augment the efficacy of “standard” antibody therapy
- iv) Combinations of Immune Modifier Agents
 - (1) To activate and expand nascent or ongoing immune responses

d) THE MAJOR BARRIER for development of effective & curative cancer immunotherapy

- i) Immunotherapy agents with profound & proven function & high potential to benefit cancer patients are not broadly available for testing.

e) Agents needed to overcome biological restrictions have been invented

- i) Dendritic cell activators
- ii) Dendritic cell growth factors
- iii) Vaccine adjuvants
- iv) T-cell stimulators
- v) T-cell growth factors
- vi) Genetically modified T cells
- vii) Immune checkpoint inhibitors
- viii) Agents to neutralize or inhibit suppressive cells, cytokines and enzymes

f) Why aren't curative cancer vaccines standard therapy

- i) **Historical challenge**

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(1) Biological limitations

ii) **Current challenge**

(1) Agents to overcome biologic limitations have been invented, but are not broadly available

(2) Limitations are funding, organization & vision

g) **Conclusion:**

i) Immunotherapy agents needed to treat and possibly cure cancers have been invented & manufactured

ii) Methods to prioritize immunotherapy agents, target antigens & regimens have been piloted.

iii) The CITN will provide an organized effort to conduct early phase trials with a focus on trials likely to achieve the optimal/quickest route to

(1) Proof of Concept

(2) Demonstration of patient benefit

(3) Regulatory approval

iv) CITN Vision – To have many immunotherapy agents with proven biologic function broadly available for cancer therapy.

6) **Clinical Trial Design TF LOI Benchmarking Project** (*Ratatin*):

a) **Approved Project:** Perform quarterly reviews to track concordance between trial design elements of Approved Phase II CTEP trials and the IDSC Phase II Recommendations.

b) **Review Process:**

i) Participants: 3 reviewers from TF plus 2 ex-officio members

ii) Document Review: Approved Phase II CTEP-sponsored protocols identified and documents provided to reviewers electronically

iii) Rating: For each protocol, reviewers submit an overall assessment of “concordant” or “not concordant.” Where review results are not unanimous for a trial, protocols are discussed by conference call.

c) Results reported for Phase II Protocols Approved January 1-March 31, 2011

d) **Summary of Q1 2011 Analysis**

i) >60% are consistent with the Phase II Recommendations

ii) Trials that are Not Concordant employ single arm designs and use of alternate endpoints

(1) 3 trials employed composite endpoints, often as single arm trials

(2) biomarker endpoints may need to be addressed in greater detail if Recommendations are revised, or referred to Biomarker TF;

(3) Patient selection criteria employing biomarkers used in several trials

e) **Next steps:**

i) Conduct reviews for subsequent quarters in 2011;

ii) Categorize selected trials for discussion with TF to address potential gaps in Recommendations for possible revision.

7) **Biomarker TF (Tissue-based Biomarker Assays Subcommittee - True):**

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- a) Develop **guidelines** for tissue-based biomarker assays (integral, integrated, or research) used in early phase clinical trials.
 - b) The TBBA has developed IHC (Case Report Form approved by the FDA), DNA-based ISH (Case Report Form under review by FDA), and now is working on a mutation assay template for early clinical/translational trialists.
 - c) The IDSC approved the following two motions:**
 - i) Templates be made publicly available on the CDP and CTEP websites and promoted by CDP and CTEP as appropriate at high profile stakeholder meetings (AACR Molecular Targets, NCI-EORTC-AACR, Early Drug Development, Cooperative Group meetings.)
 - ii) CTEP should use these templates for LOI's, concepts and protocols that contain integral and integrated markers and develop a mechanism for them to be tested, to determine their value and utility to CTEP investigators.
- 8) Pharmacology TF:** An IDSC teleconference should be scheduled for Percy Ivy to present the carboplatin dosing research questions to IDSC members (*update: conference call held on August 8th*).
- 9) Future Plans/Calls/Meetings:**
- a) **Next call:** Monday, August 8th at 12:00 PM ET
 - b) **Fall 2011 CTEP EDD/IDSC Meeting:** Monday, Wednesday, October 3-5th, 2011 (Bethesda, MD)
 - c) **Spring 2012 CTEP EDD/IDSC Meeting:** Monday-Wednesday, March 12-14th, 2012 (Bethesda, MD)
 - d) **Fall 2012 CTEP EDD/IDSC Meeting:** Monday-Wednesday, October 15-17th, 2012 (Bethesda, MD)