



Melanoma and The Cancer Genome Atlas





- Comprehensively catalog genomic changes associated with cancer to understand the molecular basis of this disease.
 - ▶ Joint effort of NHGRI and NCI
 - ▶ Genomic and sequence analysis of 500 cases (tumor vs. germline) per cancer
- 2006: 3 year pilot launched
 - ▶ GBM, serous ovarian, squamous lung
- 2010: 5 year full project
 - ▶ 20+ additional cancers
- “Community Resource” project

(<http://cancergenome.nih.gov/>)

Disease Working Group overview

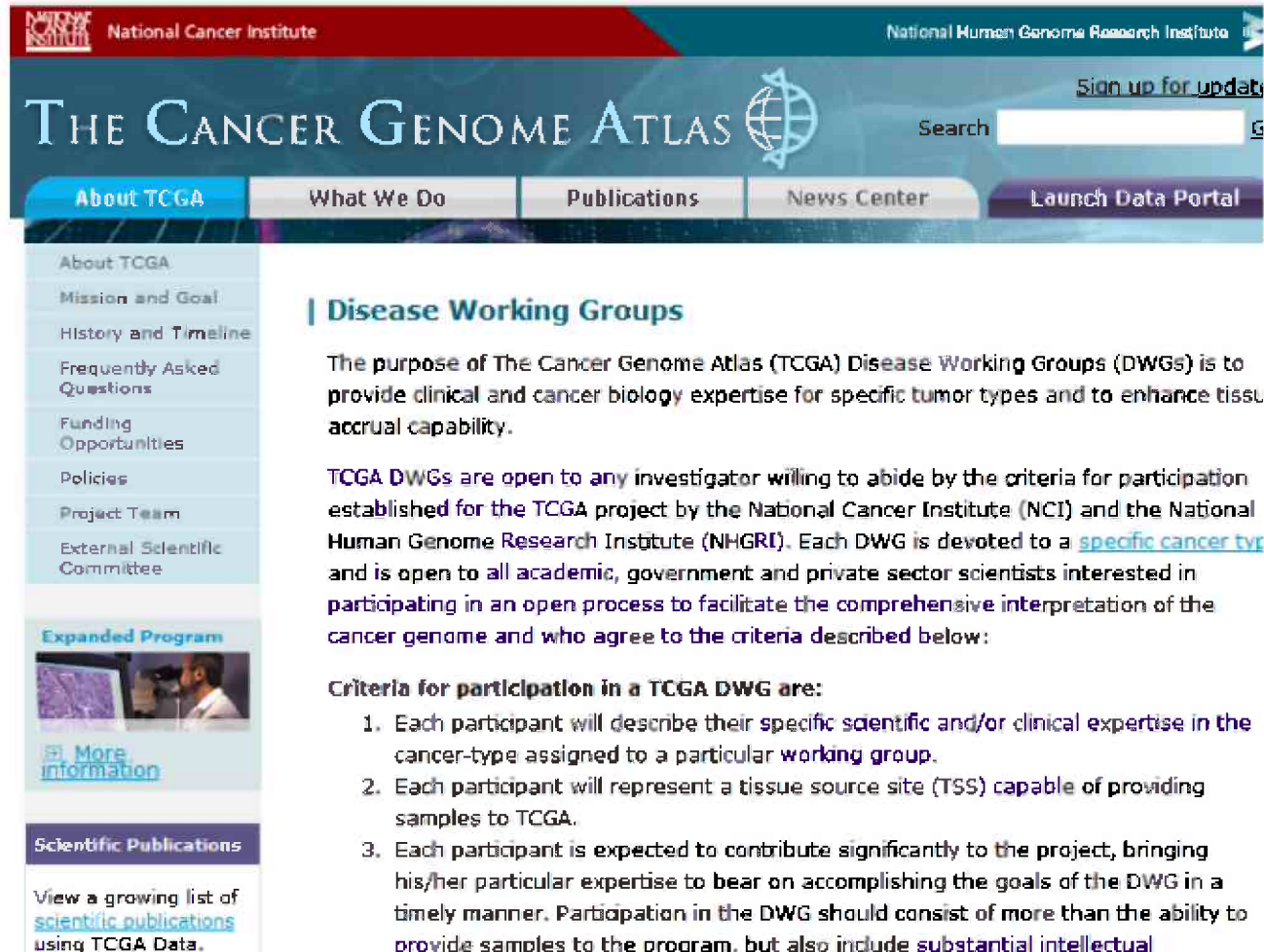
THE CANCER GENOME ATLAS



- Cross section of experts in a particular organ system
- Provide TCGA Steering Committee with guidance on:
 - ▶ Specifications for case inclusion/exclusion, biospecimen requirements, and clinical data
 - ▶ Outreach: colleagues / institutions who might have biospecimens
- Collaborative forum for data analysis
 - ▶ Decide on midcourse modifications of cancer specifics
 - ▶ Develop the first network publication(s)

Working Group Information

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National Cancer Institute National Human Genome Research Institute

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- External Scientific Committee

Expanded Program



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Scientific Publications

View a growing list of [scientific publications](#) using TCGA Data.

Disease Working Groups

The **purpose of The Cancer Genome Atlas (TCGA) Disease Working Groups (DWGs)** is to **provide clinical and cancer biology expertise for specific tumor types and to enhance tissue accrual capability.**

TCGA DWGs are **open to any investigator willing to abide by the criteria for participation established for the TCGA project by the National Cancer Institute (NCI) and the National Human Genome Research Institute (NHGRI).** Each DWG is devoted to a **specific cancer type** and is open to **all academic, government and private sector scientists** interested in **participating in an open process to facilitate the comprehensive interpretation of the cancer genome and who agree to the criteria described below:**

Criteria for participation in a TCGA DWG are:

1. Each participant will describe their **specific scientific and/or clinical expertise in the cancer-type assigned to a particular working group.**
2. Each participant will represent a **tissue source site (TSS) capable of providing samples to TCGA.**
3. Each participant is **expected to contribute significantly to the project, bringing his/her particular expertise to bear on accomplishing the goals of the DWG in a timely manner. Participation in the DWG should consist of more than the ability to provide samples to the program, but also include substantial intellectual**

Melanoma DWG

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- Lynda Chin Harvard / Farber, TCGA PI
- Martin Ferguson NCI/NHGRI project team

- Boris Bastian Yale
- Marcus Bosenberg MSK
- Keith Flaherty Harvard / Mass General
- Jeffrey Gershenwald MD Anderson
- Dirk Schadendorf DKFC, Essen
- Jeff Trent TGen, Van Andel

Melanoma status



- Cancer and biospecimen specifications complete
- Clinical data collection forms complete
- Site recruitment
 - ▶ Early stages
 - ▶ 200 – 300 cases identified; paper work (e.g. MTA) & funding underway
 - ▶ Recruiting more sites