

Snyder Production Group Summary for ENCODE 3

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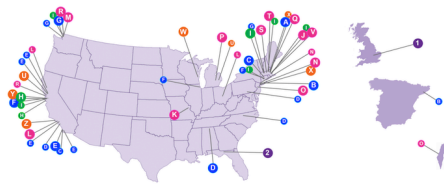
About ENCODE

THE ENCYCLOPEDIA OF DNA ELEMENTS, or ENCODE, is an international project that has been funded by NHGRI since its pilot phase initiated in 2003, with the goal of identifying all functional elements in the human genome.

Four Phases of the ENCODE Project

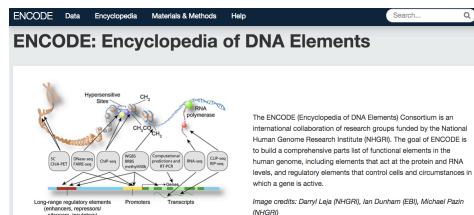


THE CONSORTIUM is composed of multiple Data Production Centers (DPCs), a central Data Coordination Center (DCC), and a central Data Analysis Center (DAC).



- | | | |
|--|---|---|
| Production Groups
<ul style="list-style-type: none"> 1 Broad Institute 2 Cold Spring Harbor 3 Center for Genomic Regulation (CRG) 4 University of Genomic Health Center UCSD 5 Helmholtz Zentrum, Pennsylvania State 6 UC Irvine, Duke, Catholic 7 UCSD, San Francisco, Joint Genome Institute, Lawrence Berkeley National Laboratory, UCSD 8 Stanford, University of Chicago, Yale 9 University of Washington 10 Fred Hutchinson Cancer Research Center, University of Massachusetts Medical School | Technology Development Groups
<ul style="list-style-type: none"> 1 MIT 2 Washington University, St. Louis 3 USC, Ohio State University, UC, Davis 4 University of Washington 5 Sloan-Kettering, Ohio State Medical College 6 Princeton, Wisconsin 7 University of Michigan 8 Broad Institute 9 University of Washington, UCSF 10 Advanced RNA Technologies, LLC 11 Harvard | Affiliated Groups
<ul style="list-style-type: none"> 1 Wellcome Trust Sanger Institute 2 Florida State University |
| Data Coordination Center
<ul style="list-style-type: none"> 1 Stanford, UCSC | Computational Analysis Groups
<ul style="list-style-type: none"> 1 MIT 2 University of Wisconsin 3 Sloan-Kettering, Broad Institute 4 Stanford 5 UCLA | |
| Data Analysis Center
<ul style="list-style-type: none"> 1 University of Massachusetts Medical School 2 Yale, MIT, Stanford, Harvard, University of Washington | | |

PRODUCTION CENTERS submit to the DCC. The ENCODE Portal at www.encodeproject.org provides public access to all released datasets.



Snyder DPC: Released Work

MAJOR RESEARCH GOALS: To Identify transcription factor binding sites in the human genome, and functionally characterize regulatory elements.

EXPERIMENTS range from ChIP-Seq, siRNA-Seq, ATAC-Seq, as well as ChIA-PET; see Fig. 1.

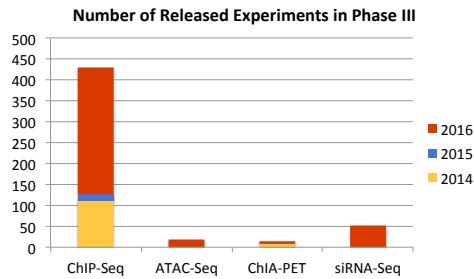


Figure 1. The number of experiments performed in the Snyder DPC in ENCODE 3 that have been released to the public by the DCC. Experiments are shown by type and year.

WE HAVE POSITIVELY CHARACTERIZED ANTIBODIES for 302 targets spanning 14 cell lines and 10 bodily tissues; see Fig. 2. Not shown in Fig. 2 are 731 negative antibody characterizations that have been submitted to the ENCODE Portal.

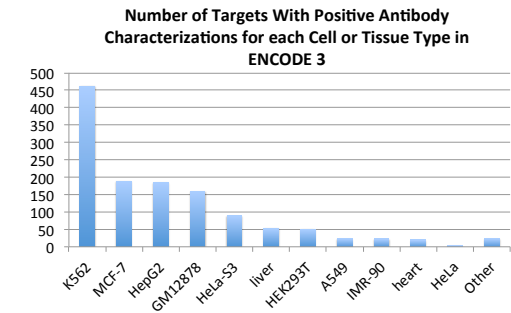
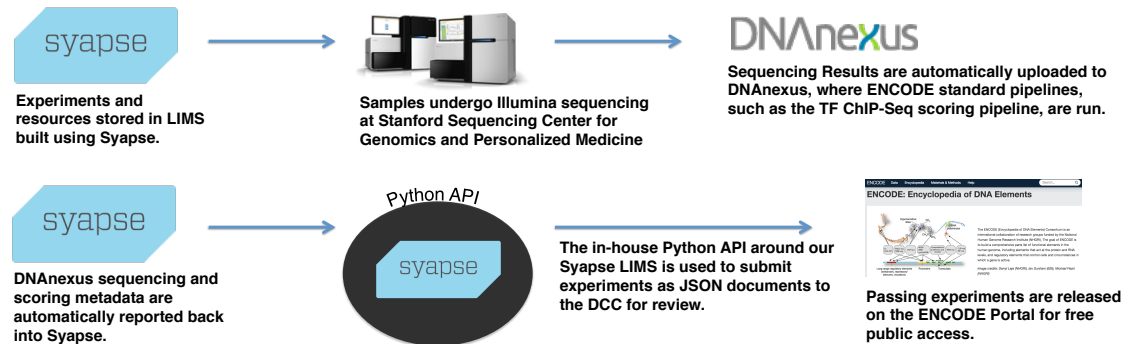


Figure 2. The number of targets (genes) per cell/tissue type that were characterized in the Snyder data production center in ENCODE 3.

Snyder DPC: Data Flow



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