

Erratum to: Managing the genomic revolution in cancer diagnostics

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The above article originally published with incorrect alignment present in Table 2. The table has now been corrected within the article, and can also be found below.

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Table 2 Select academic laboratories offering solid tumor panels with >20 genes (compiled as of March 6, 2017)

Clinical laboratory	Test name	Panel details	Methodology/ platform	Tumor/ normal sequencing	Turnaround time (TAT)	CPT® Code(s)	URL source/Reference
Brigham and Women's Hospital, Center for Advanced Molecular Diagnostics Boston, MA	OncoPanel	275 genes (full coding regions) plus selected intronic regions of 30 genes	Hybrid-capture, Illumina (HiSeq™)	Plans to implement in the future	3 weeks	Not specified	[12]
City of Hope Clinical Molecular Diagnostic Laboratory, Duarte, CA	OncoMutations Panel	49 genes (mutation hotspots)	Amplicon-based, Ion AmpliSeq™ technology	No	14 days	81445, 88381, G0452	https://www.cityofhope.org/clinical-molecular-diagnostic-laboratory/list-of-cmdl-tests/oncomutations
	OncoComplete (OncoMutations PLUS OncoFusions)	49 genes (mutation hotspots), fusion transcripts for 53 genes	Amplicon-based, Ion AmpliSeq™ technology	No	14 days	81445, 88381, G0452(×2)	https://www.cityofhope.org/clinical-molecular-diagnostic-laboratory/list-of-cmdl-tests/oncomutations
Columbia University Laboratory for Personalized Genomic Medicine, New York, NY	TruSeq Targeted Cancer Panel	48 genes	Amplicon-based, Illumina (TruSeq®)	No	30 days	81445, 88381	http://pathology.columbia.edu/diagnostic/PGM/oncologytests.html
	Combined Cancer Panel (CCCP)	467 genes (393-exons only; 74-whole genes)	Amplicon-based, Illumina	No	30 days	81455, 88381	http://pathology.columbia.edu/diagnostic/PGM/oncologytests.html
Duke University Health System Durham, NC	Solid Tumor Hotspot NGS Panel	50 genes (mutation hotspots)	Amplicon-based, Ion AmpliSeq™ technology	No	14 days	81445	http://dukeemolecular.duhs.duke.edu/RequestForms/Duke-CHPv2_information.pdf
Emory University Molecular Diagnostics Lab Atlanta, GA	Cancer Mutation Panel 26 (CMP26)	26 genes (whole-exon coverage)	Amplicon-based, Illumina (TruSight® Tumor 26)	No	7–10 days	81445, G0452	https://www.testmenu.com/emory/Tests/352670
Jefferson Cancer Laboratory Philadelphia, PA	Ion AmpliSeq™ Cancer Panel	50 genes	Amplicon-based, Ion AmpliSeq™ technology	No	14 days	Not specified	http://www.jefferson.edu/university/jmc/departments/cancer-biology/research/cancer-genomics/services.html
Johns Hopkins Molecular Diagnostics Laboratory Baltimore, MD	50 Gene Panel	50 genes (mutation hotspots)	Amplicon-based, Ion AmpliSeq™ technology	No	10–14 days	81445	http://pathology.jhu.edu/MolecularDiagnostics/tests.cfm
Massachusetts General Hospital, Center for Integrated Diagnostics Boston, MA	NGS SNaPshot	39 genes (mutation hotspots)	Primer single-base extension, SNaPshot™ methodology	No	3 weeks	Not specified	http://www.massgeneral.org/pathology/research/resourceclab.aspx?id=74
Memorial Sloan Kettering Cancer Center New York, NY	Memorial Sloan Kettering-Integrated Mutation Profiling of Actionable Cancer Targets (MSK-IMPACT™)	410 genes, 17 rearrangements	Hybrid-capture, Illumina (HiSeq™)	Yes	Not specified	Not specified	[34]
	Cancer Gene Mutation Panel-50 (CGMP-50)	50 genes (mutation hotspots)	Amplicon-based, Ion AmpliSeq™ technology	No	7–10 days	81445	http://comellpathology.com/clinical-services/molecular-and-genomic-pathology
New York Presbyterian Hospital/Weill Cornell Molecular Pathology Laboratory New York, NY	GeneTrails® Comprehensive Solid Tumor Panel	124 genes	Amplicon-based, Illumina (NextSeq™)	No	14 days	81455	https://www.obsu.edu/custom/knight-diagnostic-labs/featured
Oregon Health & Science University, Knight Diagnostic Laboratories Portland, OR	GeneTrails® Solid Tumor Fusion Gene Panel	fusions in 20 target genes, gene expression for 8 genes	Next generation RNA sequencing, confirmation by FISH	No	14–17 days	81455	https://www.obsu.edu/custom/knight-diagnostic-labs/home/test-details?id=GeneTrailsSolidTumorFusionGenePanel
	Solid Tumor Actionable Mutation Panel (STAMP)	130 genes (either in part or fully)	Hybrid-capture, Illumina (MiSeq™)	No	28 days	81455	http://www.stanfordlab.com/esoteric/test-stanford-solid-tumor-actionable-mutation-panel.html
Stanford Molecular Pathology Laboratory Palo Alto, CA	Cancer Somatic Mutation Panel, Non-Blood	48 genes (targeted regions and hotspot mutations)	Hybrid-capture, Illumina (MiSeq™); primer single-base extension, SNaPshot™ methodology for 2 genes	No	28 days	81445	http://stanfordlab.com/esoteric/test-cancer-somatic-mutation-panel-non-blood.html

Table 2 (continued)

Clinical laboratory	Test name	Panel details	Methodology/ platform	Tumor/ normal sequencing	Turnaround time (TAT)	CPT® Code(s)	URL source/Reference
The Ohio State University Wexner Medical Center Molecular Pathology Laboratory Columbus, OH	Lung Cancer Mutation Panel (PULMOL) Colon Cancer Mutation Panel (COLMOL)	26 genes (commonly mutated regions) 26 genes (commonly mutated regions)	Amplicon-based, Ion AmpliSeq™ technology Amplicon-based, Ion AmpliSeq™ technology	No No	Not specified Not specified	81445, G0452 81445, G0452	http://pathology.osu.edu/divisions/ Clinical/mopath/tests.html http://pathology.osu.edu/divisions/ Clinical/mopath/tests.html
UC San Diego Health, Center for Advanced Laboratory Medicine, Clinical Genomics Laboratory San Diego, CA	Comprehensive NGS Solid Tumor Mutation Panel	397 genes (all exons), transcripts for 28 genes	NGS	Yes	16 days	Not specified	https://www.testmenu.com/ ucsd/Tests/565799
UC San Francisco Clinical Cancer Genomics Laboratory San Francisco, CA	UCSF500 Cancer Gene Panel	~500 genes (including select introns), fusions involving 42 genes	Hybrid-capture, Illumina (HiSeq™)	Yes	3–4 weeks	Not specified	http://cancer.ucsf.edu/intranet/ccgl
University of Chicago Molecular Pathology Laboratory Chicago, IL	OncoPlus Universal Cancer Mutation Analysis Panel	147 clinically reported genes, fusions in <i>ALK</i> , <i>RET</i> , <i>ROS1</i>	Hybrid-capture, Illumina (HiSeq™)	No	14–20 days	81455	http://udicagomedlabs.testcatalog.org/ show/NGPLSF
University of Nebraska Medical Center Regional Pathology Services Omaha, NE	50 Gene Panel	50 genes (mutation hotspots)	Amplicon-based, Ion AmpliSeq™ technology	No	10–14 days	Not specified	https://www.testmenu.com/ nebraska/Tests/533515
University of Pennsylvania, Center for Personalized Diagnostics Philadelphia, PA	Comprehensive Solid Tumor Panel	153 genes (mutation hotspots)	Amplicon-based, Agilent HaloplexHS enrichment, Illumina (MiSeq™)	No	≤21 days	Not specified	http://pathology.med.upenn.edu/ clinical-services/center- for-personalized-diagnostics
University of Pittsburgh Medical Center Molecular & Genomic Pathology Laboratory Pittsburgh, PA	OncoSeq Personalized Cancer Mutation Panel	28 genes (mutation hotspots) 50 genes (targeted regions)	Amplicon-based, Ion AmpliSeq™ technology Amplicon-based, Ion AmpliSeq™ technology	No Yes, for LOH and MSI analyses	7 days 7–14 days	Not specified Not specified	http://mgrp.upmc.com/Applications/ Test/OncoSeq_Details http://mgrp.upmc.com/Applications/ mgp/Home/PCMP_Details
University of Texas MD Anderson Cancer Center Houston, TX, USA	Ion Torrent AmpliSeq™ Cancer Panel	46 genes (mutation hotspots)	Amplicon-based, Ion AmpliSeq™ technology	No	Not specified	Not specified	[32]
University of Texas Southwestern Medical Center, Veripath Laboratory Dallas, TX	Cancer Mutation 50-Gene Panel	50 genes	Amplicon-based, Ion Torrent PGM™	No	<20 days	81455, 88381	http://veripath.swmed.edu/LabDetails. aspx?TitleID=TEMP618201594638
University of Washington Medical Center Genetics Laboratory Seattle, WA	UW-OncoPlex™	262 genes (select regions and introns)	Hybrid-capture, Illumina (HiSeq™), MiSeq™	No	4–6 weeks	81455 (88381 if applicable)	http://web.labmed.washington.edu/ tests/genetics/UW-OncoPlex
Washington University Genomics and Pathology Services St. Louis, MO	Solid Tumor Gene Set	65 genes (all coding region and select introns)	Hybrid-capture, Illumina (HiSeq™)	No	3 weeks	81455	https://gps.wustl.edu/patient- care/sequencing-tests/