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# Annual Meeting

## Panel 3

Data Generation (and Review Considerations) for Use of a Companion Diagnostic for a Group of Oncology Therapeutic Products

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Password: FOCR2019

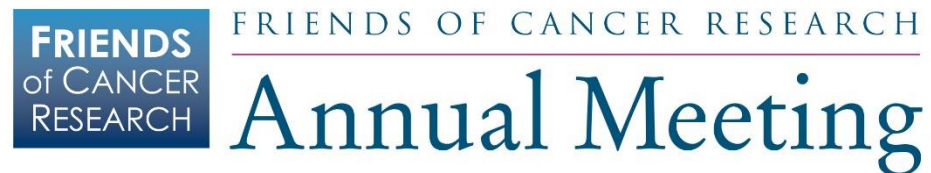
# Panel 3 Participants

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**Moderator:** Steffan Ho, Pfizer

- Andrea Ferris, LUNGeivity
- David Hyman, Memorial Sloan Kettering Cancer Center
- Lynne McBride, Thermo Fisher Scientific
- Preeti Narayan, FDA
- Reena Philip, FDA
- Lakshman Ramamurthy, GlaxoSmithKline

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# **In Vitro Companion Diagnostic Devices**

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## **Guidance for Industry and Food and Drug Administration Staff**

Document issued on: August 6, 2014

The draft of this document was issued on July 14, 2011.

“The labeling for an in vitro diagnostic device is required to specify the intended use of the diagnostic device (21 CFR 809.10(a)(2)). Therefore, an IVD companion diagnostic device that is intended for use with a therapeutic product must specify the therapeutic product(s) for which it has been approved or cleared for use.

In some cases, if evidence is sufficient to conclude that the IVD companion diagnostic device is appropriate for use with a class of therapeutic products, the intended use/indications for use should name the therapeutic class, rather than each specific product within the class.”

# Developing and Labeling *In vitro* Companion Diagnostic Devices for a Specific Group or Class of Oncology Therapeutic Products

## Guidance for Industry

*DRAFT GUIDANCE*

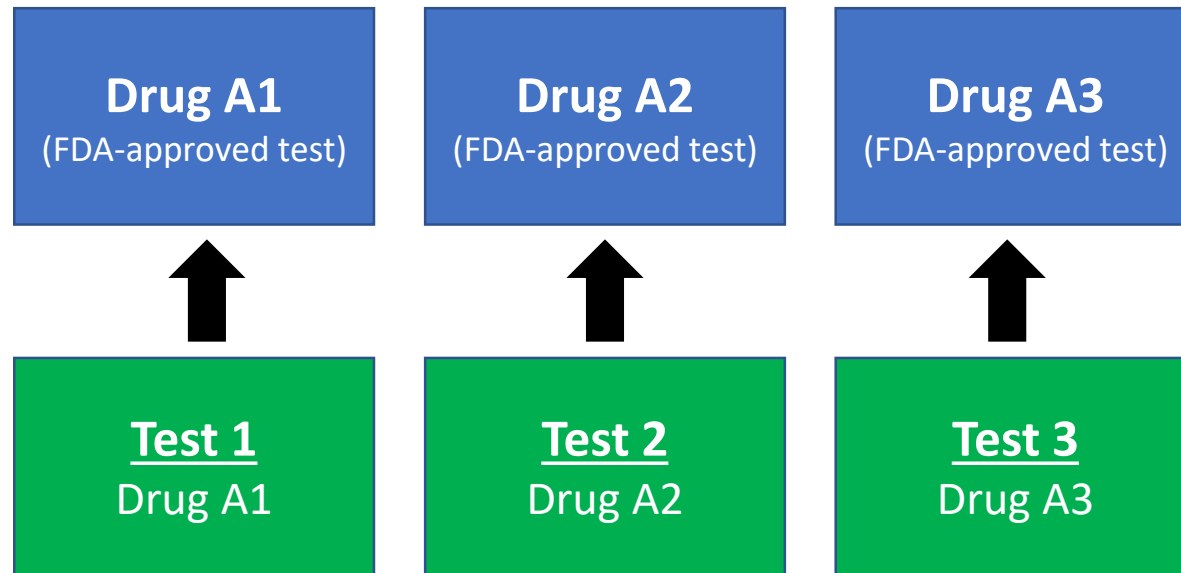
This guidance document is being distributed for comment purposes only.

December 2018

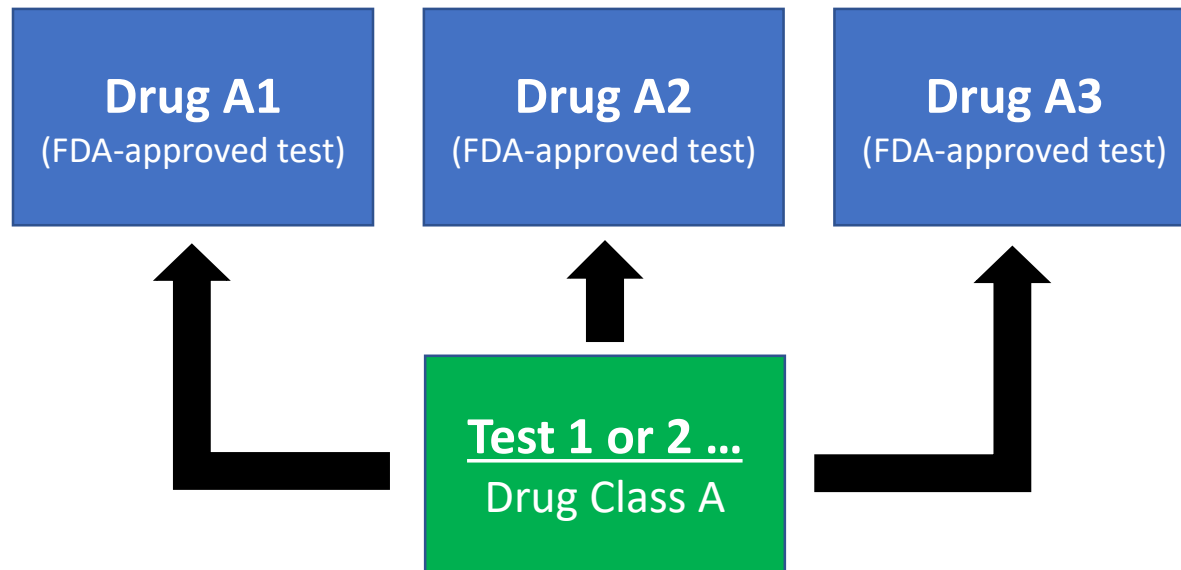
“The specific group or class of oncology therapeutic products would be identified for this purpose based on sufficient and consistent clinical experience with the therapeutics with the same approved indications, including mutation(s) and disease, for which a companion diagnostic could potentially be labeled (as discussed in this document).”

“... a specific group or class of oncology therapeutic products are those approved for the same indications, including the same mutation(s) and the same disease for which clinical evidence has been developed with at least one device for the same specimen type for each therapeutic product.”

# Multiple therapeutics of the same class each with a different companion diagnostic test



**A companion diagnostic test(s) appropriate for use with a specific group or class of therapeutic products**



FDA Approved CDx	<u>Same-in-Class Therapeutic Products</u> EGFR inhibitors indicated for the treatment of EGFR-positive metastatic NSCLC (matrix: FFPE tumor tissue; analyte: DNA)				
	Gefitinib	Erlotinib	Afatinib	Osimertinib	Dacomitinib
Not Applicable	Rx 5/2003	Rx 11/2004			
Therascreen EGFR RGQ PCR Kit [PCR]	Rx 7/2015 Dx 7/2015		Rx 7/2013 Dx 7/2013		Rx 9/2018 Dx 9/2018
Cobas EGFR Mutation Test V2 [PCR]	Rx 7/2015 Dx 9/2015	Rx 5/2013 Dx 7/2013		Rx 11/2015 Dx 11/2015 <sup>%,*</sup>	
Oncomine Dx Target Test [NGS]	Dx 7/2017				
FoundationOne CDx [NGS]	Dx 11/2017	Dx 11/2017	Dx 11/2017	Dx 11/2017 <sup>%</sup>	
				Dx 7/2019	

<sup>%</sup> T790M only; <sup>\*</sup>8/2018 label extended to include plasma



FDA Approved CDx	<u>Same-in-Class Therapeutic Products</u> ALK inhibitors indicated for the treatment of ALK-positive metastatic NSCLC (matrix: FFPE tumor tissue; analyte: variable)				
	Crizotinib	Ceritinib	Alectinib	Brigatinib	Lorlatinib
Not Applicable		Rx 4/2014 <sup>1</sup>	Rx 12/2015 <sup>1</sup>	Rx 4/2017 <sup>1</sup>	Rx 11/2018 <sup>2</sup>
Vysis ALK Break Apart FISH Probe Kit [FISH]	Rx 08/2011 Dx 08/2011				
VENTANA ALK (D5F3) CDx Assay [IHC]	Dx 09/2015	Rx 5/2017 Dx 5/2017	Rx 11/2017 Dx 11/2017		
FoundationOne CDx [NGS]	Dx 11/2017	Dx 11/2017	Dx 11/2017		

<sup>1</sup> Accelerated approval for the treatment of patients with ALK-positive metastatic NSCLC who have progressed on or are intolerant to crizotinib

<sup>2</sup> Accelerated approval for patients whose disease has progressed on crizotinib and at least one other ALK inhibitor for metastatic disease; or alectinib as the first ALK inhibitor therapy for metastatic disease; or ceritinib as the first ALK inhibitor therapy for metastatic disease

FDA Approved CDx	<u>Same-in-Class Therapeutic Products</u> PARP inhibitors in advanced ovarian cancer <sup>1</sup>		
	Olaparib	Rucaparib	Niraparib
Not Applicable			<b>Rx 3/2017 (maint)</b>
BRCAAnalysis CDx <sup>2</sup> [PCR, Sanger seq] Matrix: whole blood	<b>Rx 12/2014</b> <b>Dx 12/2014</b>	<b>Dx 10/2018</b>	<b>Dx 3/2017</b>
	<b>Dx 12/2018 (maint)</b>		<b>Dx 1/2018 (maint)</b>
FoundationFocus CDxBRCA Assay [NGS] Matrix: FFPE tumor tissue		<b>Rx 12/2016</b> <b>Dx 12/2016</b>	
		<b>Dx 4/2018 (LOH<sup>3</sup>)</b>	
FoundationOne CDx [NGS] Matrix: FFPE tumor tissue	<b>Dx 7/2019</b>	<b>Dx 11/2017</b>	

<sup>1</sup> recurrent epithelial ovarian, fallopian tube, or primary peritoneal cancer

<sup>2</sup> intended for the qualitative detection and classification of variants in the protein coding regions and intron/exon boundaries of the BRCA1 and BRCA2 genes using genomic DNA obtained from whole blood specimens collected in EDTA. Single nucleotide variants and small insertions and deletions (indels) are identified by polymerase chain reaction (PCR) and Sanger sequencing. Large deletions and duplications in BRCA1 and BRCA2 are detected using multiplex PCR. Results of the test are used as an aid in identifying ovarian cancer patients with deleterious or suspected deleterious germline BRCA variants

<sup>3</sup>Positive homologous recombination deficiency (HRD) status defined as tBRCA-positive or LOH high

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