

# Friends of Cancer Research: A Blueprint for Breakthrough – Charting the Course for Precision Medicine

September 2017

FOCR's annual [Blueprint for Breakthrough forum](#) focused this year on enabling the development, approval, and uptake of novel cancer diagnostics. A diverse group of stakeholders from pharma, diagnostics companies, academia, non-profits, and regulatory agencies came together to discuss the challenges and develop recommendations.

3 Panel Discussions:	Establishing Analytical Standards & Identifying Critical Performance Characteristics	Streamlining Modifications to Diagnostic Tests	Driving Uptake of High Quality Precision Medicine Tools
<b>Panelists</b>	Dara Aisner: <i>UC Denver</i> Rasika Kalamegham: <i>Genentech</i> Lisa McShane: <i>NCI</i> Jason Merker: <i>Stanford</i> Reena Philip: <i>FDA</i> Erasmus Schneider: <i>NY Dept of Health</i>	Elizabeth Mansfield: <i>Grail</i> Gideon Blumenthal: <i>FDA</i> Keith Flaherty: <i>MGH</i> David Kaufman: <i>Merck</i>	Kate Rawson: <i>Prevision Policy</i> Joseph Chin: <i>CMS</i> Andrea Ferris: <i>Lungevity</i> Zach Hornby: <i>Ignitya</i> A. John Iafrate: <i>MGH</i> Michael Pellini: <i>Foundation Medicine</i> Jeffrey Shuren: <i>FDA</i>
<b>Key issue</b>	<b>Can the <u>development</u> of novel Dx tests be expedited by setting standards for performance/ evaluation?</b>	<b>Can the <u>regulatory approval</u> process be streamlined to facilitate continued refinement of Dx tests?</b>	<b>Can <u>adoption</u> of novel Dx tests be accelerated by overcoming economic and educational hurdles?</b>
<b>Proposed next steps</b>	<ul style="list-style-type: none"> <li>• Establish standardized reference materials, e.g., isogenic cell lines</li> <li>• FDA to host collaborative meetings to establish baseline performance standards for Dx test &amp; labs                             <ul style="list-style-type: none"> <li>– Continue to raise bar in the future</li> </ul> </li> <li>• Increase transparency by publishing performance data for Dx tests &amp; labs                             <ul style="list-style-type: none"> <li>– Outline assay risks &amp; steps to mitigate</li> </ul> </li> <li>• Accredit Dx labs that meet certain standards &amp; inspection metrics                             <ul style="list-style-type: none"> <li>– Precedents set by CAP, NY state, et al.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Potentially eliminate need for FDA Dx approval thru accreditation process</li> <li>• Develop expedited pathway to update Dx label (or in the future, accreditation): a “pre-specification” plan:                             <ol style="list-style-type: none"> <li>1. Company pre-specifies anticipated updates (e.g., from ongoing clinical trial)</li> <li>2. If pre-specified results are met, a streamlined update process is enacted</li> </ol> </li> </ul>	<ul style="list-style-type: none"> <li>• Establish comprehensive payer policy, perhaps driven by Congress</li> <li>• Build precision med evidence base:                             <ul style="list-style-type: none"> <li>– Additional prospective trials (like MATCH) showing clinical utility of NGS over SoC genotyping</li> <li>– Registries to collect real-world data about Dx test performance</li> <li>– Shared NGS database generated by multiple parties; aggregated data can build the story</li> <li>– Simplified &amp; harmonized reporting of test results</li> </ul> </li> </ul>