

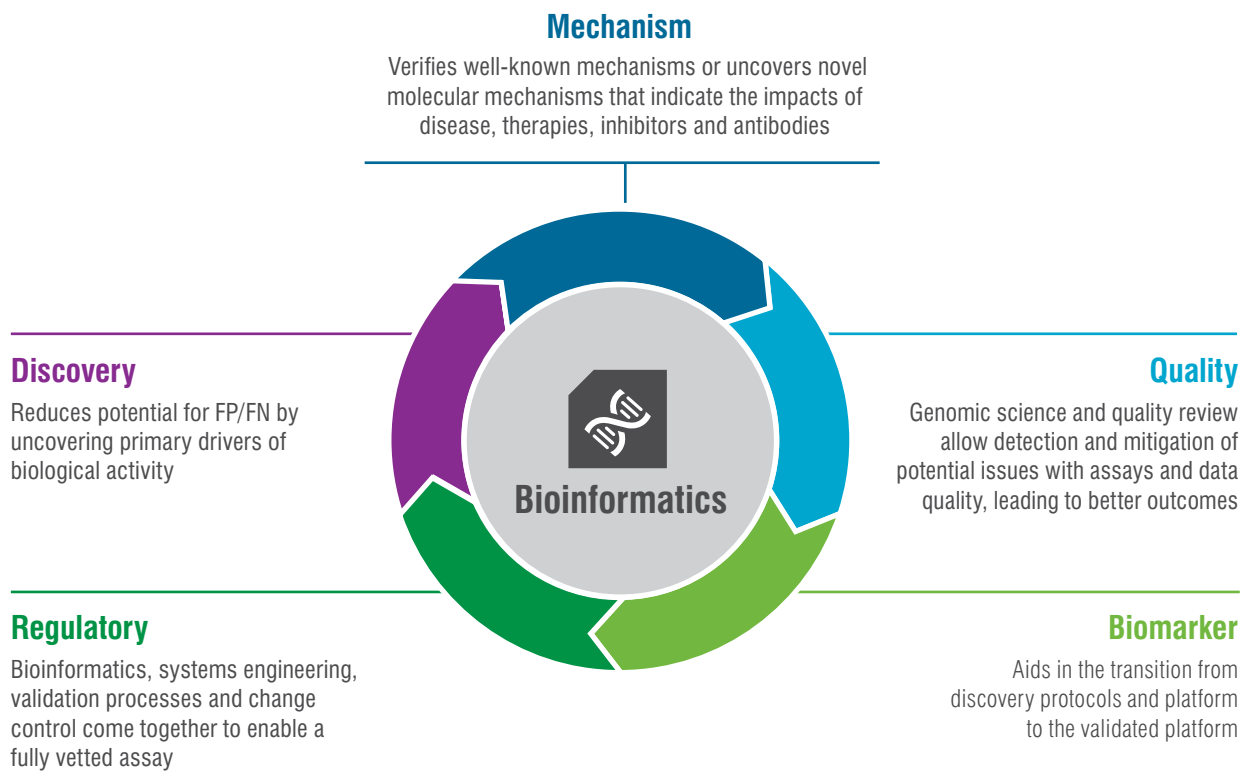


The Importance of Bioinformatics in Immuno-oncology Development

Integrated bioinformatics capabilities for better outcomes

The field of bioinformatics plays an important role in many aspects of drug discovery, drug assessment, and drug development. Bioinformatics allows organizations to handle large volumes of genomic data, using tools to predict, analyze, or help interpret clinical and preclinical findings. Q² Solutions provides extensive bioinformatics services and big data solutions to turn data into genomic insights you need for a successful clinical trial. Using bioinformatics will drive effective immuno-oncology and precision medicine development, creating a circle of influence from discovery through regulatory approval.

Bioinformatics circle of influence in precision medicine and immuno-oncology



Tailored solutions driven by deep domain expertise

Organizations need partners specializing in bioinformatics to help them translate genomic data into important insights. Genomic service providers such as Q² Solutions, specializing in [bioinformatics services](#) – with worldwide laboratories and various testing capabilities and technologies – increase the likelihood of successful solutions. An [effective collaboration](#) includes an **end-to-end solution across genomic technologies** that engages the right experts with the right skills and resources to drive trial execution with optimal outcomes. Skilled bioinformaticists understand molecular biology context, resolve data conflicts, process large data sets in a timely fashion, overcome multiple testing challenges, and consult with partnering scientists to provide comprehensive solutions, including biomarker selection, especially in the pre-clinical testing and clinical trials areas.

The right bioinformatics partner

Choose the right bioinformatics partner for expertise, skill, infrastructure and professionalism needed to drive optimal outcomes, including these key attributes:



Focus on services



Experience in genomics and regulated genomics testing



Appropriate staffing levels and expertise



Knowledge across several platforms and protocols

Comprehensive, customized genomic strategies focused on quality systems and harmonized processes

Q² Solutions has deep expertise across a [wide range of genomic technologies](#) to help you make the best decisions and get the most out of your data. Our experienced scientists and bioinformaticians leverage bioinformatics to provide insights on key genomic data that will help you succeed. Our experts will provide innovative methods for your immuno-oncology trials, a deep understanding of drug safety and PD markers, higher-quality, more precise data on tumor characteristics, and more effective, personalized therapies.

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Bioinformatics team of >28 members, including >10 PhDs, generating over 5TB/day in processed sequencing data

Our staff is committed to supporting your immuno-oncology clinical development needs through multiple technologies and innovative solutions. Our quality-focused bioinformaticians and genomics experts have over 150 peer-reviewed articles published in leading scientific journals since 2001, and with major roles in the FDA-led Microarray Quality Control (MAQC) and Sequencing Quality Control (SEQC) projects.

Wendell Jones, PhD, Principal Bioinformaticist and Scientific Advisor at Q² Solutions, is President of the international [Massive Analysis and Quality Control \(MAQC\) Society](#)

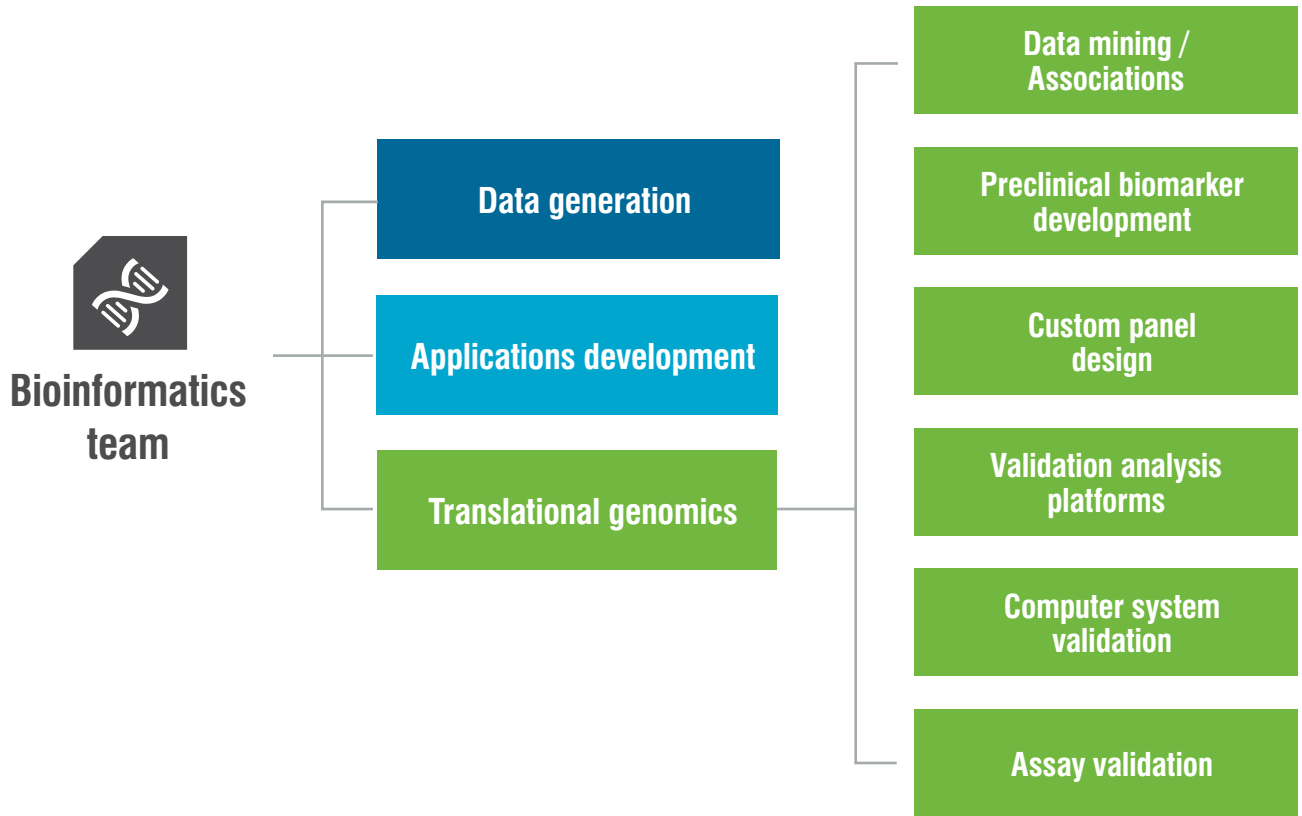
Genomic insights for regulatory success

Our integrated bioinformatics capabilities enable consistent performance, and provide scalability and flexibility to meet your product development goals. Our bioinformatics expertise drives solutions for precision medicine development – resulting in smaller, shorter clinical trials and optimized benefit-risk profiles for patients with a specific biomarker profile. We help you overcome challenges in handling volumes of data and navigating tools with:

- **Tailored software development** to customize a solution to meet your genomic needs
- **Commercial and open source tools** for complex analysis, open visibility and collaboration
- **Coupled assay development enhancement** to increase performance and specificity
- **Genomics based translational insights** for precision medicine

Using integrated bioinformatics technologies and processes, Q² Solutions' world-class experts provide translational insights for precision medicine to drive success across the development lifecycle. Please see our [Precision Medicine white paper](#) for more on our integrated bioinformatics capabilities.

Integrated bioinformatics capabilities



Our genomic and central laboratory services provide a broad range of immuno-oncology and technological expertise and the ability to develop novel tests to look for new and meaningful biomarkers and companion diagnostics. With our bioinformatics team, we provide integrated bioinformatics capabilities for assay validation, custom panel design, computer system validation, data mining and biomarker development.

To learn more about our genomics services, please visit:
www.Q2LabSolutions.com/genomics-laboratories

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