

News Release

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MilliporeSigma Expands Popular Line of Guava® Flow Cytometers

- **Optical configurations meet needs of any lab, research discipline or individual application**
- **Product can detect up to 14 parameters from a single sample**

Billerica, Massachusetts, May 11, 2016 – [MilliporeSigma](#) today announced it has expanded its popular line of [Guava®](#) flow cytometers to include a high-power modulated green laser.

The addition of a 532 nanometer laser expands the detection capabilities of the Guava® easyCyte instrument line to enable simultaneous detection of multiple fluorescent proteins. It also offers researchers more spectral choice using fluorescent reagents. More powerful violet, blue and red lasers are now standard in most configurations, meaning the Guava® cytometers are sensitive enough to detect subcellular particles as small as viruses.

Since the discovery and isolation of the genes encoding proteins responsible for biological fluorescence, fluorescent proteins (FPs) have changed life science research. Both mutation of the original green FP and discovery of naturally occurring proteins emitting elsewhere in the spectrum have resulted in FPs of many colors. The company's new Guava® easyCyte green laser variants meet the need for instrumentation that allows users to analyze heterogeneous biological tissues and systems in a single experiment.

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MilliporeSigma's Guava® pioneered microfluidics in flow cytometry 15 years ago when the company introduced the first benchtop flow cytometers. This new enhanced optical capability and flexibility has been achieved by Guava® engineers with no increase in instrument size and without sacrificing affordability. Better optical configurations that allow for more meaningful analysis permit a small benchtop footprint. This gives users reduced buffer and sample volumes and dramatically reduces waste when compared with sheath-based flow cytometers.

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About the Life Science Business of Merck KGaA, Darmstadt, Germany

The life science business of Merck KGaA, Darmstadt, Germany, which operates as MilliporeSigma in the U.S. and Canada, has 19,000 employees and 72 manufacturing sites worldwide, with a portfolio of more than 300,000 products enabling scientific discovery.

Merck KGaA, Darmstadt, Germany completed its \$17 billion acquisition of Sigma-Aldrich in November 2015, creating a leader in the \$130 billion global life science industry.

Merck KGaA of Darmstadt, Germany is a leading company for innovative and top-quality high-tech products in healthcare, life science and performance materials. The company has six businesses – Biopharmaceuticals, Consumer Health, Allergopharma, Biosimilars, Life Science and Performance Materials – and generated sales of € 12.85 billion in 2015. Around 50,000 employees work in 66 countries to improve the quality of life for patients, to foster the success of customers and to help meet global challenges.

Merck KGaA, Darmstadt, Germany is the world's oldest pharmaceutical and chemical company – since 1668, the company has stood for innovation, business success and responsible entrepreneurship. Holding an approximately 70 percent interest, the founding family remains the majority owner of the company to this day. Merck KGaA, Darmstadt, Germany holds the global rights to the Merck name and brand. The only exceptions are Canada and the United States, where the company operates as EMD Serono, MilliporeSigma and EMD Performance Materials.