

News Release

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Merck KGaA, Darmstadt, Germany and Universal Display Corporation Announce Collaboration to Further Advance OLED Technology

- **Two key players in the OLED industry are collaborating to accelerate development of new products and for the advancement of OLED technology**

Darmstadt, Germany, August 05, 2019 – Merck KGaA, Darmstadt, Germany, a leading science and technology company, and Universal Display Corporation (Nasdaq: OLED), enabling energy-efficient displays and lighting with its UniversalPHOLED® technology and materials, today announced a research and development collaboration in the OLED field.

With this agreement, two key players in the OLED industry join their know-how to accelerate the development of new products and further advance OLED technology. This joint development program brings together Universal Display Corporation's expertise in leading-edge phosphorescent OLED emitters and the state-of-the-art transport materials from Merck KGaA, Darmstadt, Germany. The objective is to develop higher performing OLED stacks for OLED manufacturers around the world.

"We are very pleased with this collaboration, as our companies bring a perfectly matching set of know-how to the table," said Kai Beckmann, CEO Performance Materials and member of the Executive Board of Merck KGaA, Darmstadt, Germany. "This will greatly support each of us in developing innovative products for our customers. Moreover, the new insights will help us to further advance and increase



News Release

the performance of OLED technology in general, one of the most promising fields for the display industry.”

“We are pleased to be working with Merck KGaA, Darmstadt, Germany, and believe that this collaboration of materials expertise will help expand the landscape of bright, beautiful, brilliant OLED displays in the marketplace,” said Steven V. Abramson, President and Chief Executive Officer of Universal Display Corporation. “Both companies offer comprehensive portfolios of OLED solutions that complement each other very well, and we look forward to further enabling our customers and the OLED ecosystem.”

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About Merck KGaA, Darmstadt, Germany

Merck KGaA, Darmstadt, Germany, a leading science and technology company, operates across healthcare, life science and performance materials. Around 52,000 employees work to make a positive difference to millions of people’s lives every day by creating more joyful and sustainable ways to live. From advancing gene editing technologies and discovering unique ways to treat the most challenging diseases to enabling the intelligence of devices – the company is everywhere. In 2018, Merck KGaA, Darmstadt, Germany, generated sales of € 14.8 billion in 66 countries.

The company holds the global rights to the name and trademark “Merck” internationally. The only exceptions are the United States and Canada, where the business sectors of Merck KGaA, Darmstadt, Germany operate as EMD Serono in healthcare, MilliporeSigma in life science, and EMD Performance Materials. Since its founding 1668, scientific exploration and responsible entrepreneurship have been key to the company’s technological and scientific advances. To this day, the founding family remains the majority owner of the publicly listed company.

About Universal Display Corporation

Universal Display Corporation (Nasdaq: OLED) is a leader in developing and delivering state-of-the-art, organic light emitting diode (OLED) technologies, materials and services to the display and lighting industries. Founded in 1994, the Company currently owns or has exclusive, co-exclusive or sole license rights with respect to more than 5,000 issued and pending patents worldwide. Universal Display licenses its proprietary technologies, including its breakthrough high-efficiency UniversalPHOLED® phosphorescent OLED technology that can enable the development of low power and eco-friendly displays and solid-state lighting. The Company also develops and offers high-quality, state-of-the-art UniversalPHOLED materials that are recognized as key ingredients in the fabrication of OLEDs with peak performance. In addition, Universal Display delivers innovative and customized solutions to its clients and partners through technology transfer, collaborative technology development and on-site training. To learn more about Universal Display Corporation, please visit <https://oled.com/>.

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