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Press release

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Working with Sunshine: Merck at the 25th European Photovoltaic Solar Energy Conference and Exhibition in Valencia

- **isishape[®] cutting-edge technology supports smart and simple processes in solar cell production**
- **Merck presents its broad product range for a wide variety of solar cell**

Darmstadt, August 31, 2010 – Merck KGaA will be presenting the latest material developments for the photovoltaics industry at the 25th European Photovoltaic Solar Energy Conference and Exhibition in Valencia, Spain from September 6-9, 2010.

At this exhibition, Merck will showcase the latest developments to its isishape[®] product line. Under the brand name isishape[®], Merck has developed printable etching pastes capable of selectively etching antireflective coatings (e.g. SiN_x) and passivation layers (e.g. SiO₂) on solar cells as well as on transparent conductive materials (e.g. ITO). Schiller Automation and Merck have jointly developed new equipment for edge isolation of crystalline silicon wafers that uses isishape[®] and is designed to cut solar cell production costs per watt. The unique concept behind isishape[®] offers environmentally friendly and highly efficient materials for smart and simple structuring in the photovoltaic industry.

In addition, Merck offers the following products for a wide variety of solar cells:

- **lisicon[®]**: organic semiconducting polymers for organic solar cells
- **livilux[®]**: advanced organic charge transport materials for dye-sensitized and organic solar cells



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- **Solarpur®**: Antireflex coatings for solar modules as well as ionic liquids for dye-sensitized solar cells.

Hans-Jürgen Lemp, Head of Structuring Solutions at Merck KGaA, will give an overview of the “Working with Sunshine“ portfolio at the EU PVSEC Exhibitors' Forum (Hall 2) at 11 a.m. on the first day of the exhibition, September 6. A team of experts from research and development as well as marketing and sales will be available to present the products and answer questions at the Merck exhibition stand (L2/ H2/ A27) .

The 5th World Conference on Photovoltaic Energy Conversion will be held from September 6 to 10 in parallel to the exhibition, which runs from September 6 to 9. This conference, which unites three major photovoltaic conferences this year, will feature presentations of the latest scientific developments in the photovoltaics field. Together with the concurrent exhibition, the event offers a superb overview of product innovations in this field and a high-level platform for information exchanges among specialists.

The European Photovoltaic Solar Energy Conference and Exhibition is one of the world's major solar exhibitions and conferences, and among these it traditionally has the most visitors. This year the organizer expects exhibitors from more than 100 countries and over 40,000 visitors. An additional 4,500 participants are expected to attend the world conference taking place simultaneously.

All Merck press releases are distributed via e-mail at the same time they become available on the Merck website: Please go to <http://www.merck.de/newsabo> to register online, change your selection or discontinue this service.

Merck is a global pharmaceutical and chemical company with total revenues of EUR 7.7 billion in 2009, a history that began in 1668, and a future shaped by approximately 40,000 (including Merck Millipore) employees in 64 countries. Its success is characterized by innovations from entrepreneurial employees. Merck's operating activities come under the umbrella of Merck KGaA, in which the Merck family holds an approximately 70% interest and free shareholders own the remaining approximately 30%. In 1917 the U.S. subsidiary Merck & Co. was expropriated and has been an independent company ever since.