

All Eyes on Pathogenic Lipids: Winner of world's first Lipidomics Excellence Award Presents First Molecular Map of "Lipid Highways"

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The laureate of the world's first Lipidomics Excellence Award, [Prof. Dr. Anne-Claude Gavin](#) from the University of Geneva, uses the analysis technology of Dresden based Lipotype GmbH for the next breakthrough in her lipid transfer research. The biochemist draws the world's first molecular "map of lipid highways", she is tracing the ways of lipid transfer between the membranes of body cells.

"Latest research shows that the lipid metabolism plays a major role in the development of diabetes, cancer or Alzheimer's. Once we have a better understanding of the ways certain lipids cause which effect, we may pave the way for new potential treatment approaches", the laureate explains her research goal. "Lipidomics helps us answering questions we would not even dare to ask without it. It opens doors that may hold the answer to our civilization diseases."

Lipidomics In Diabetes Research

Life science researchers of various disciplines discover Lipotype's Shotgun Lipidomics Analysis for their projects. So does the diabetes research: "Lipidomics is step by step revealing processes and connections that stay hidden with traditional analysis methods", says Prof. Dr. Michele Solimena, Professor of Molecular Diabetology, Medical School, TU Dresden, Germany and Director of the Paul Langerhans Institute Dresden, a German Center for Diabetes Research. „In diabetes research we make good progress thanks to lipidomics, e.g. it is now possible to define molecular lipid signatures that tell us about the development of non-diabetic to diabetes type 2 and progression towards diabetes complications."

World's First Award For A Deeper Insight Into The Lipid Cosmos

The unique Lipidomics Excellence Award rewards innovation and the drive for novelty in researchers who strike out in a new direction using lipidomics. The winner Prof. Dr. Anne-Claude Gavin's project idea stood out in a strong competition with numerous international scientists and research teams. Ultimately, a top-class independent jury of renowned lipidomics experts awarded the Geneva-based scientist with the first prize equalizing lipid analyses worth 50,000 EUR.

"We want to shine a light on the fact that lipid analyses really make the difference between research and groundbreaking research: by providing new data one gains an even deeper insight into the lipid cosmos. It is high time to seize the potentials. Let us see what there is still to discover", says Prof. Dr. Kai Simons, Professor and Director Emeritus at Max-Planck-Institute for Molecular Cell Biology and Genetics Dresden and founder and CEO of [Lipotype](#).

Download: Press Material incl. photos (available from 30 September, 3 pm)
http://datas.weichertmehner.com/LEA_2019.zip

Lipidomics Excellence Award: The Facts

[The winners](#)

The „Lipid Highways“ project by Louis-Jeantet professor **Prof. Anne-Claude Gavin** receives the 1st prize worth 50,000 EUR; second prize worth 10,000 EUR went to **Dr. Oliver Schmidt**, Assistant Professor at the Biocenter of the Medical University of Innsbruck, for his protein degradation research project; third prize worth 1,500 EUR receives **Prof. Sarah L. Keller**, Professor of Chemistry at University of Washington (Seattle) cell membrane research project in yeast, an important model organism.

Focus Worldwide; academia and industry alike

Criteria LEA recognizes individuals with ongoing research projects which are bound to benefit from lipid analysis. This includes for example: basic science, clinical, medical and pharmacological research, nutrition, diet and food investigations, as well as dermatological and cosmetic explorations. All applications are evaluated in terms of how they

advance lipidomics. Novelty, approach and relevance in their field of research are also factors to be judged.

The jury

The selection panel is composed of Britta Brügger, Professor for Biochemistry/Chemical Biology at Biochemistry Center Heidelberg University, Pietro De Camilli, Professor for Neuroscience and Cell Biology at Yale School of Medicine, Ari Helenius, Professor emeritus for Biochemistry at ETH Zurich and Kai Simons, Professor and Director emeritus at Max-Planck-Institute for Molecular Cell Biology and Genetics Dresden and Founder and CEO of Lipotype GmbH.

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About LEA

LEA, the Lipidomics Excellence Award, promotes researchers who are eager to contribute to the progress of life sciences with generous research prizes. Three individuals with ongoing research are awarded to support their projects. Applications are open to all researchers from academia and industry.

The winner of the first prize will receive 55,000 EUR worth of analysis services and present their research at the EMBO Workshop "Lipid function in health and disease" in late September 2019. A press conference will be held to present the project and formally handover the LEA 2019 trophy.

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