

# **David Kramer**

**Professor of Biochemistry and Molecular Biology at Michigan State University**

East Lansing, MI, US

Expert in biofuels, photosynthesis

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## **Description**

Hannah Distinguished Professor in Photosynthesis and Bioenergetics. Energetics and control of photosynthesis electron and proton transfer reactions reactive oxygen generation the conversion of light energy by plants into forms usable for life understanding the processes involved at both molecular and physiological levels, how they are regulated and controlled how these processes define the energy budget of plants and the ecosystem how plants have evolved to support life in extreme environments

Among the tools used in Dr. Kramer's lab are spectroscopic approaches including absorption, fluorescence, circular dichroism and electron spin resonance (EPR) applied to isolated membranes, organelles and intact plants. Students in the laboratory gain wide exposure to biophysical techniques and the important area of bioenergetics.

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## **Industry Expertise**

Education/Learning, Environmental Services, Energy, Biotechnology

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## **Topics**

Biochemistry, Molecular Biology, Photosynthesis, Energy & Renewable Energy, Plant Biology, Phenotyping, Phenomics

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## **Affiliations**

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### **Education**

**University of Illinois**

Ph.D. Biophysics

**University of Dayton**

M.S. Cell Biology

**University of Dayton**

B.S. Biology

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## **Accomplishments**

## **Research Innovation Award**

Awarded by the the International Society of Photosynthesis Research.

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