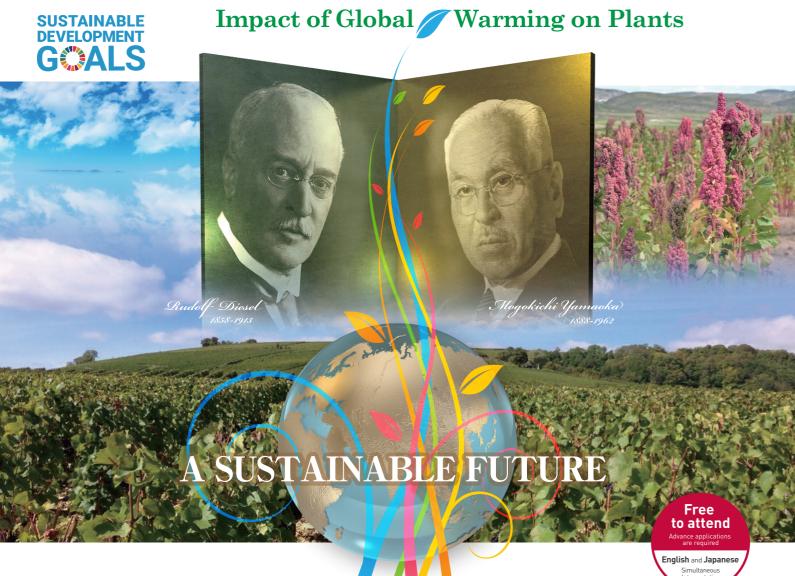
# Science & Technology Lecture

Food and Agriculture for a Sustainable Society





Plant Science Challenges to Global Warming ~ Aiming for Sustainable Food Production ~

## Yasunari Fujita, Ph.D.

Senior Researcher, Biological Resources and Post-harvest Division, Japan International Research Center for Agricultural Sciences (JIRCAS); Professor, Faculty of Life and Environment Sciences, University of Tsukuba (Cooperative Graduate School Program)



Wine in the Light of Climate Change in Germany

Prof. Dr. Christian Zörb

University of HOHENHEIM Executive Director; Institute of Crop Plants Chair; Quality of Plant Products and Viticulture

## March 24th, 2021

16:00-19:00 Capacity

▶ Venue:Limited to the first 50 people ▶ Online:Limited to the first 500 people

International Science Innovation Building, Kyoto University Yoshida Campus

Online lecture (ZOOM) will be held at the same time.

Registration

Please entry at website bellow.

https://yamaoka-memorial.or.jp/event/index.html

Entry deadline:12:00 on March 23rd, 2021



Sponsored by Yamaoka Memorial Foundation

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## Purpose of the Lecture Meeting

This Science and Technology Lecture focused on "Renewable Energy", a theme closely related to prevention of global warming, one of the 17 Sustainable Development Goals (SDGs) adopted by the United Nations in September 2015. Under the theme of, we invited lecturers from Japan and Germany three times.

From this fiscal year, lectures will be given three times in series on "Food" and "Agriculture", which are also important issues as SDGs. The theme of this year as the 1st time will be "Impacts of Global Warming on Plants". After keynote speeches held by experts from Japan and Germany, we expect active exchange of opinions will be made on a global theme of sustainable food and agriculture through panel discussions and exchange meetings mainly among young people who will lead the next generation.

### **Speaker Introduction**



## Yasunari Fujita, Ph.D.

Senior Researcher, Biological Resources and Post-harvest Division, Japan International Research Center for Agricultural Sciences (JIRCAS); Professor, Faculty of Life and Environment Sciences, University of Tsukuba (Cooperative Graduate School Program)

1998	Received a Ph.D. in applied biology from Kyoto University
	Research Fellow, Japan Society for the Promotion of Science (JSPS)
	Researcher, University of California, Berkeley

2000 Postdoctoral Researcher, JIRCAS

2006 Senior Researcher, Biological Resources Division, JIRCAS

2010 Associate Professor, Graduate School of Life and Environmental Sciences, University of Tsukuba (Cooperative Graduate School Program)

2011 Senior Researcher, Biological Resources and Post-harvest Division, JIRCAS

2012 Associate Professor, Faculty of Life and Environment Sciences, University of Tsukuba (Cooperative Graduate School Program)

2018 Professor, Faculty of Life and Environment Sciences, University of Tsukuba (Cooperative Graduate School Program)

#### < Awards received >

Highly Cited Researchers 2014, 2015, and 2016 (selected by Thomson Reuters), Highly Cited Researchers 2017, 2018, and 2019 (selected by Clarivate Analytics)

#### < Abstract >

#### **Plant Science Challenges to Global Warming**

In recent years, global warming increases the intensity and frequency of extreme weather events that cause drought, desertification and salt accumulation, devastating farmland and thereby threatening sustainable food production. To feed 10 billion, which the global world population is expected to reach until some time in this century, while protecting the diversity of ecosystem and the environment suitable for life, it is necessary to develop sustainable and robust food production system. In this lecture, I will make a report on the forefront of cross-sectoral efforts against global warming based on advanced plant science.



#### Prof. Dr. Christian Zörb

Universität Hohenheim Executive Director; Institute of Crop Plants Chair; Quality of Plant Products and Viticulture Schloss Westflügel 70593 Stuttgart, Germany

1998 Diploma in Biology (Plant Science), Justus Liebig Univ. Giessen Dr. rer. nat. (PhD), Justus Liebig Univ. Giessen, Faculty of Biology

1999-2007 PostDoc experience in several labs including UK, USA and

Germany

 ${\it Habilitation, Justus\ Liebig\ Univ.\ Giessen, Venia\ legendi\ in\ Plant}$ 

Nutrition

2005-2007 Research Associate, Bundesanstalt für Ernährung und

Lebensmittel, Detmold

2007-2012 Research Associate, Univ. of Kiel, Institute of Plant Nutrition and

Soil Science

2012-2013 Senior Scientific Fellow, School of Biology, Univ. of Sussex,

Brighton, UK

2012-2014 Professor of General and Applied Botany, Univ. of Leipzig,

Institute of Biology

Since 2014 Professor of Quality of Plant Products and Viticulture, Univ. of

Hohenheim

Research interests: Crop Plants, Viticulture, Climate Change, Quality Aspects, Plant Nutrition

#### < Abstract >

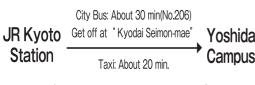
#### Wine in the light of climate change in Germany

In Germany, wine has been grown for about 2000 years. Climate change is now suggesting shifts that impact on winegrowing. Climate-induced warmer weather leads to early ripening of the berries and premature grape harvesting and changes the style and aroma of the wine. Moreover, the spread of insect pests and harmful fungi that affect the vine. Approaches must be sought to counter this and to maintain the style of the famous German grape varieties in the future.

## About the Sponsor "Yamaoka Memorial Foundation"

Magokichi Yamaoka, founder of Yanmar Group, succeeded in developing world's first compact diesel engine, which originates from ones invented by Dr. Rudolph Diesel in Germany, and hence spread this type of engines all over the world. With this background, the Yanmar Group has always been grateful for German technology and culture since it was founded. With such feelings of gratitude, Yamaoka Memorial Foundation was established to promote cultural exchanges between Germany and Japan in order to contribute to the sustainable development of our society.

#### Access



Bound for Kitaoji Bus Terminal via Hihashiyama Street

