

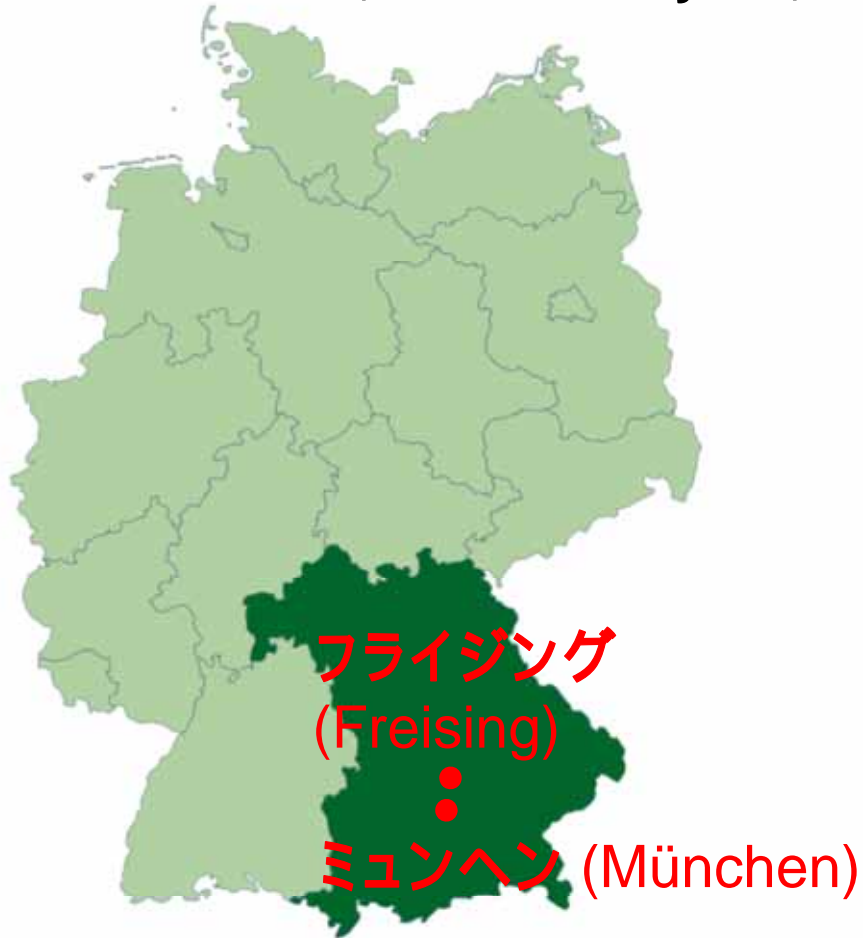
# Mechanisms of Growth, Competition and Stress Defense in Plants

(植物の成長・競争・ストレス防御のメカニズム) 参加報告  
渡辺 誠



# Technische Universität München

バイエルン自由州 (Freistaat Bayern)



# Schedule

Date	Event
27 Feb.	Sapporo to Tokyo
28 Feb.	Tokyo to München
1 Mar.	Symposium
2 Mar.	Symposium, Confernce dinner
3 Mar.	Symposium, Dinner at Dr. Schaller's house
4 Mar.	Visit at exp. forest, Dinner with Prof. Matyssek
5 Mar.	Visit at forest park
	Back to Japan

# The symposium

## Framework -SFB607-

Growth and Parasite Defense:

Competition for Resources in Economic Plants from  
Agronomy and Forestry

## Title of the symposium

Mechanisms of Growth, Competition and Stress Defense in Plants

Many presentations focus on effects of O<sub>3</sub>, elevated CO<sub>2</sub>, N deposition on plant defence pathogens and/or other kinds of biotic or abiotic stress

# Oral presentation



Prof. Koike's presentation



Totally 35 oral presentations



# Poster presentation

Dr. Y. Watanabe



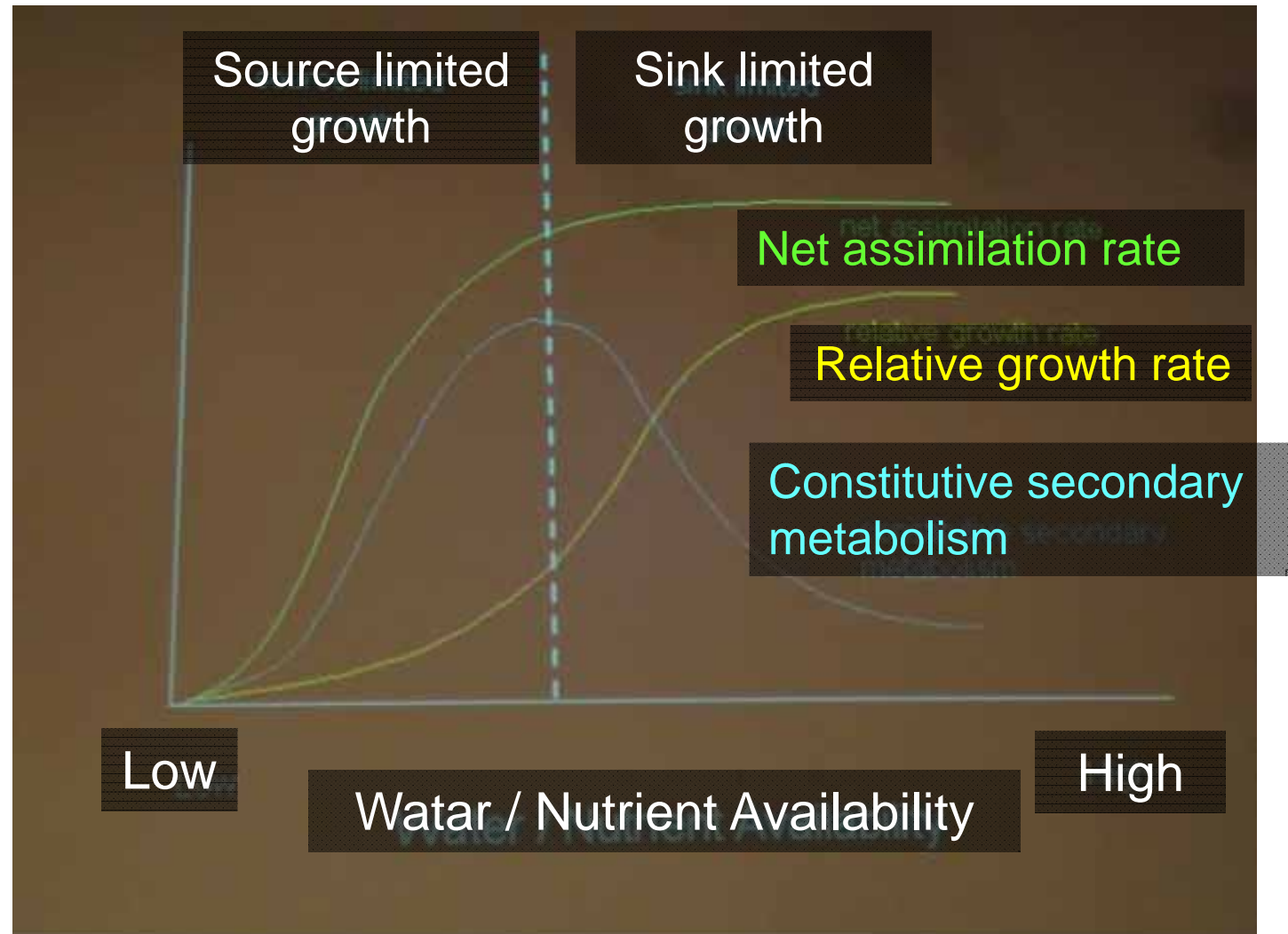
Dr. M. Günthardt-Goerg

Prof. T. Koike



Totally 29 poster presentations

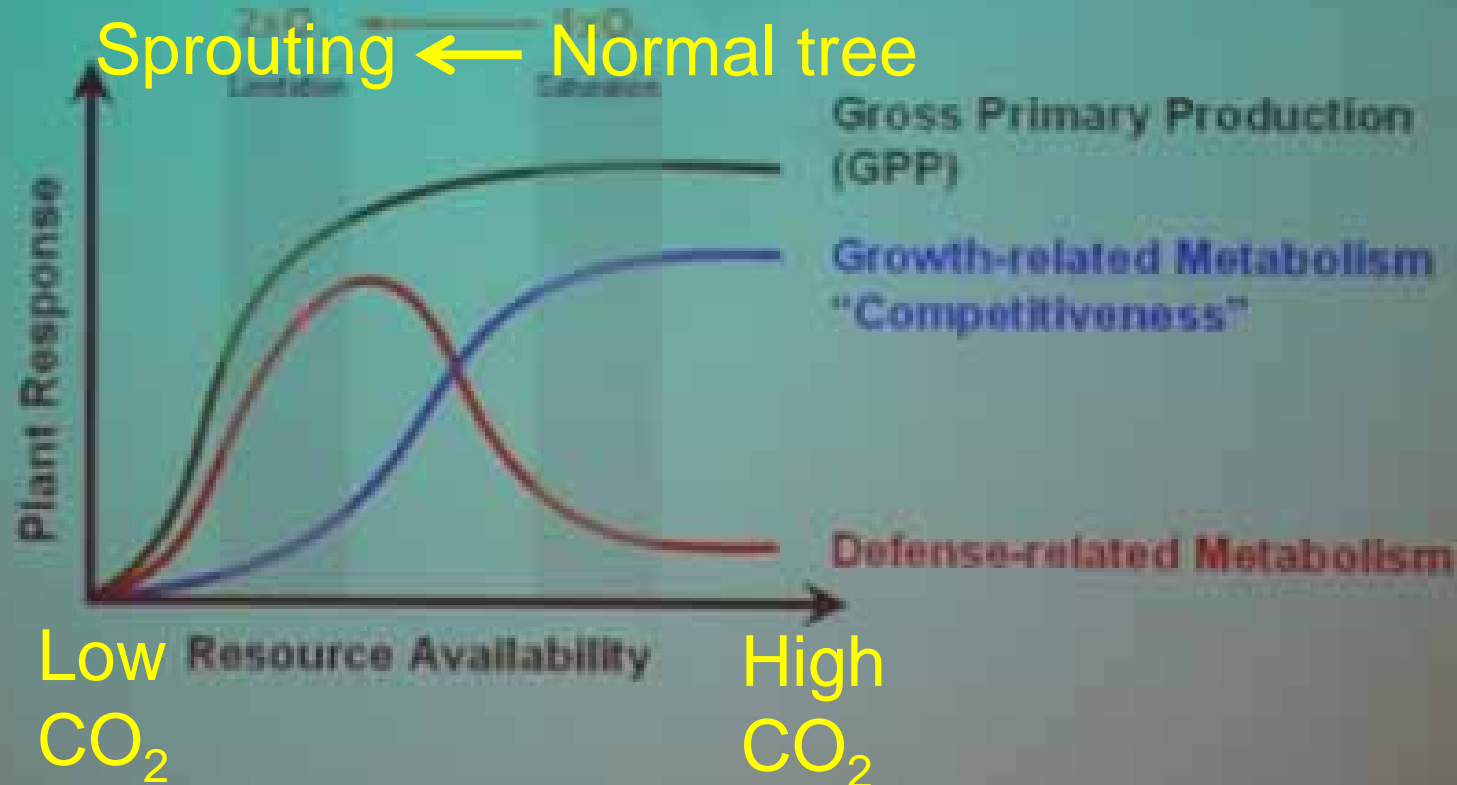
## Growth-Differentiation Balance (GDB) Hypothesis



Herms DA & Mattson WJ (1992) The dilemma of plants: to grow or defend. The Quarterly Review of Biology 67: 283-335.

# Application of GDB Hypothesis

Explanation of my study  
(High defence to powery-mildow in oak sprouting  
under high  $\text{CO}_2$ )





# Campus of Technische Universität München



Timber structure of buffet



Classroom



Campus view



Corridor with plant



Artificial Corridor



Meeting room



# Free Air Ozone exposure system 1



Canopy gondola



Overview of the system



Monitoring and repair room



# Free Air Ozone exposure system 2



# Dinner in Dr. Schaller's house



# The End !

