



# ION CHANNEL BASED OPTOGENETICS – A NEW TOOL TO ANSWER LONG STANDING QUESTIONS

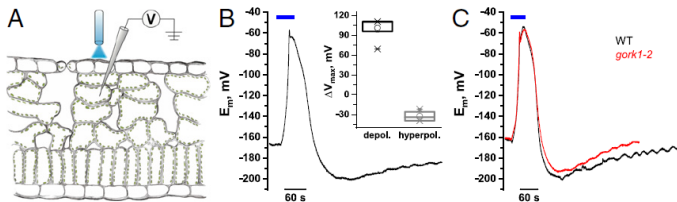
GUEST LECTURE by

**Prof. Dr. Rainer Hedrich**

Department of Molecular Plant Physiology and Biophysics - Botany I, University of Wuerzburg, Germany

Monday, 02.10.2023, 16:00

Seminar room SR35 (MC2.J.01.040, 1<sup>st</sup> floor), MED Campus



Blue light induces transient membrane potential depolarizations in *Arabidopsis thaliana* mesophyll cells. Reyer A *et al.* (2020) Proc Natl Acad Sci U S A 117:20920–5

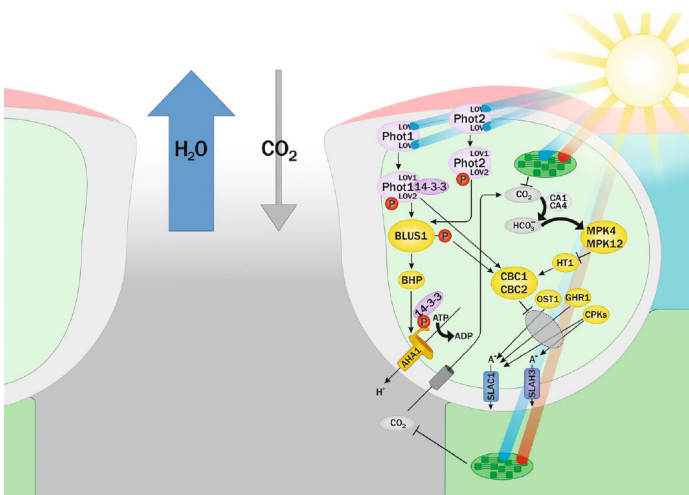
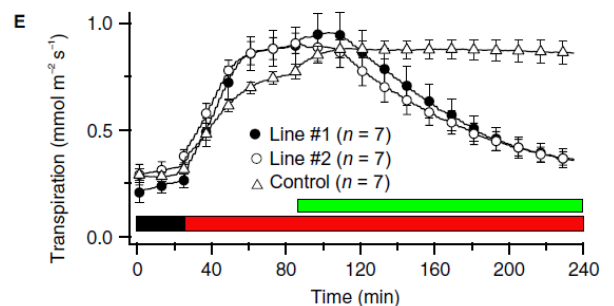
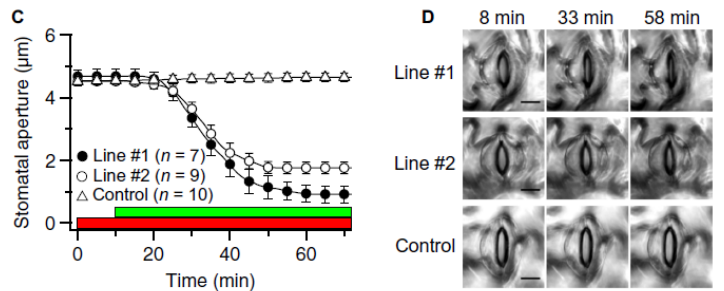
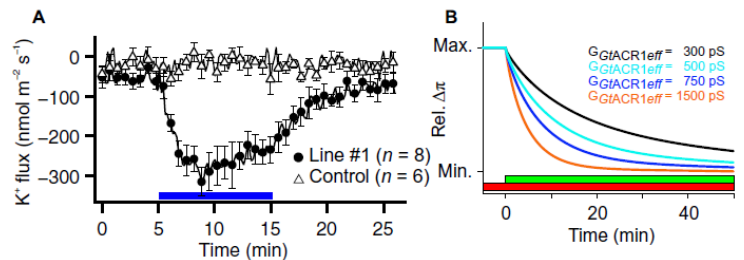


Illustration of light signaling pathways that provoke stomatal opening in guard cells. Jones JJ *et al.* (2022) New Phytol 236(4):1237-44



GtACR1 enables light-controlled stomatal closure. Huang *et al.* (2021) Sci Adv 7:eabg4619