

Additional references for Prof. Hillel Fromm's talk on Calcium regulation of transcription in plants

Edel KH, Kudla J (2015) Increasing complexity and versatility: how the calcium signaling toolkit was shaped during plant land colonization. *Cell Calcium* 57 (3):231-246.

doi:10.1016/j.ceca.2014.10.013

Finka A, Goloubinoff P (2014) The CNGCb and CNGCd genes from *Physcomitrella patens* moss encode for thermosensory calcium channels responding to fluidity changes in the plasma membrane. *Cell Stress Chaperones* 19 (1):83-90. doi:10.1007/s12192-013-0436-9

Fromm H, Finkler A (2015) Repression and De-repression of Gene Expression in the Plant Immune Response: The Complexity of Modulation by Ca(2)(+) and Calmodulin. *Mol Plant* 8 (5):671-673.

doi:10.1016/j.molp.2015.01.019

Galon Y, Finkler A, Fromm H (2010) Calcium-regulated transcription in plants. *Mol Plant* 3 (4):653-669. doi:10.1093/mp/ssq019

Hake K, Romeis T (2019) Protein kinase-mediated signalling in priming: Immune signal initiation, propagation, and establishment of long-term pathogen resistance in plants. *Plant Cell Environ* 42 (3):904-917. doi:10.1111/pce.13429

Kim YS, An C, Park S, Gilmour SJ, Wang L, Renna L, Brandizzi F, Grumet R, Thomashow MF (2017) CAMTA-Mediated Regulation of Salicylic Acid Immunity Pathway Genes in *Arabidopsis* Exposed to Low Temperature and Pathogen Infection. *Plant Cell* 29 (10):2465-2477. doi:10.1105/tpc.16.00865

Kudla J, Becker D, Grill E, Hedrich R, Hippler M, Kummer U, Parniske M, Romeis T, Schumacher K (2018) Advances and current challenges in calcium signaling. *New Phytol* 218 (2):414-431.

doi:10.1111/nph.14966

Kumar S, Mazumder M, Gupta N, Chattopadhyay S, Gourinath S (2016) Crystal structure of *Arabidopsis thaliana* calmodulin7 and insight into its mode of DNA binding. *FEBS Lett* 590 (17):3029-3039. doi:10.1002/1873-3468.12349

Leitao N, Dangeville P, Carter R, Charpentier M (2019) Nuclear calcium signatures are associated with root development. *Nat Commun* 10 (1):4865. doi:10.1038/s41467-019-12845-8

Liu J, Lenzoni G, Knight MR (2020) Design Principle for Decoding Calcium Signals to Generate Specific Gene Expression Via Transcription. *Plant Physiol* 182 (4):1743-1761.

doi:10.1104/pp.19.01003

Peng X, Zhang X, Li B, Zhao L (2019) Cyclic nucleotide-gated ion channel 6 mediates thermotolerance in *Arabidopsis* seedlings by regulating nitric oxide production via cytosolic calcium ions. *BMC Plant Biol* 19 (1):368. doi:10.1186/s12870-019-1974-9

HSTalks

ONLINE LECTURES
BY LEADING WORLD EXPERTS

Reddy AS, Ali GS, Celesnik H, Day IS (2011) Coping with stresses: roles of calcium- and calcium/calmodulin-regulated gene expression. *Plant Cell* 23 (6):2010-2032. doi:10.1105/tpc.111.084988

Sanyal SK, Pandey A, Pandey GK (2015) The CBL-CIPK signaling module in plants: a mechanistic perspective. *Physiol Plant* 155 (2):89-108. doi:10.1111/ppl.12344

Schulz P, Herde M, Romeis T (2013) Calcium-dependent protein kinases: hubs in plant stress signaling and development. *Plant Physiol* 163 (2):523-530. doi:10.1104/pp.113.222539

Shen C, Yang Y, Du L, Wang H (2015) Calmodulin-binding transcription activators and perspectives for applications in biotechnology. *Appl Microbiol Biotechnol* 99 (24):10379-10385. doi:10.1007/s00253-015-6966-6

Virdi AS, Singh S, Singh P (2015) Abiotic stress responses in plants: roles of calmodulin-regulated proteins. *Front Plant Sci* 6:809. doi:10.3389/fpls.2015.00809

Yoo CY, Mano N, Finkler A, Weng H, Day IS, Reddy ASN, Poovaiah BW, Fromm H, Hasegawa PM, Mickelbart MV (2019) A Ca²⁺/CaM-regulated transcriptional switch modulates stomatal development in response to water deficit. *Sci Rep* 9 (1):12282. doi:10.1038/s41598-019-47529-2