



Intercellular Communication in Plants: Evidence for an EMF-Generated Signal that Evokes Local and Systemic Transcriptional Responses in Tomato

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Résumé en anglais	Exposing the oldest leaf of a tomato plant to a short (10 min), low-amplitude (5 V.m ⁻¹), high-frequency (900 MHz) electromagnetic field evoked a rapid (15 min) and systemic accumulation of the stress-related transcript LebZIP-1 in the exposed leaf and in the distant, terminal leaf that is protected from EMF radiation. The accumulation was prevented by calcium counteracting drugs both locally and systemically. It was also prevented, but only in the distant tissue, in the ABA tomato mutant Sitiens or in wild-type tomato grown in the presence of the ABA synthesis inhibitor naproxen.
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Liens

- [1] <http://okina.univ-angers.fr/alain.vian/publications>
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=12264](http://okina.univ-angers.fr/publications?f[author]=12264)
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=20672](http://okina.univ-angers.fr/publications?f[author]=20672)
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