

## E1.5 (P. Nick)

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- [E1.5:2] C. Gutjahr and P. Nick, *Acrylamide inhibits gravitropism and destroys microtubules in rice coleoptiles*, [Protoplasma 227, 211 \(2006\)](#)
- [E1.5:3] P. Nick, *Noise yields Order – Auxin, Actin, and Polar Patterning*, [Plant Biology 8, 360 \(2006\)](#)
- [E1.5:4] ‡ A. Ahad and P. Nick, *Actin-bundling in activation-tagged aluminum-tolerant tobacco mutants*, [Planta 225, 451 \(2007\)](#)
- [E1.5:5] ‡ M. Riemann, C. Gutjahr, A. Korte, M. Riemann, B. Danger, T. Muramatsu, U. Bayer, F. Waller, M. Furuya, and P. Nick, *GDSL MOTIF-CONTAINING RICE ENZYME 1, a novel early light and jasmonate induced gene in rice*, [Plant Biology 9, 32 \(2007\)](#)
- [E1.5:6] J. Maisch and P. Nick, *Actin is involved in auxin-dependent patterning*, [Plant Physiol 143, 1695 \(2007\)](#)
- [E1.5:7] ‡ K. Eggenberger, M. Darbandi, A. Merkoulov, T. Nann, and P. Nick, *Visualization of plant microtubules by direct immunofluorescence based on semiconductor nanocrystals*, [Bioconjugate Chem. 18, 1879 \(2007\)](#)
- [E1.5:8] ‡ A. Hatakeyama, N. Ishii, P. Nick, T. Furukawa, and T. Koshiba, *Analysis of the Localization and Regulation of RSOsPR10 Expression*, [Plant Cell Physiol. 48, 361 \(2007\)](#)
- [E1.5:9] ‡\* K. Eggenberger, T. Schröder, E. Birtalan, A. Merkulov, M. Darbandi, T. Nann, S. Bräse, and P. Nick, *The Use of Nanoparticles to Study and Manipulate the Polarity of Plant Cells*, [Eur. J. Cell Biol. \(Suppl\) 87, 62 \(2008\)](#)
- [E1.5:10] ‡ A. Kuthanová, L. Fischer, P. Nick, and Z. Opatrný, *Cell cycle phase-specific death response of tobacco BY-2 cell line to cadmium treatment*, [Plant Cell Environ. 31, 1634 \(2008\)](#)
- [E1.5:11] P. Nick, *Control of Cell Axis*, [Plant Cell Monogr. 143, 3 \(2008\)](#)
- [E1.5:12] P. Nick, *Microtubules as Sensors for Abiotic Stimuli*, [Plant Cell Monogr. 143, 175 \(2008\)](#)
- [E1.5:13] ‡ A.C. Schmit and P. Nick, *Microtubules and the Evolution of Mitosis*, [Plant Cell Monogr. 143, 233 \(2008\)](#)
- [E1.5:14] P. Nick (editor), *Plant microtubules – Development and Flexibility*. Springer Verlag (2008)
- [E1.5:15] ‡ J. Maisch, J. Fišerová, L. Fischer, and P. Nick, *Tobacco Arp3 is localized to actin-nucleating sites in vivo*, [J. Exp. Bot. 60, 603 \(2009\)](#)
- [E1.5:16] ‡ N. Kusaka, J. Maisch, P. Nick, K.I. Hayashi, and H. Nozaki, *Manipulation of Intercellular Auxin in a Single Cell by Light with Esterase-Resistant Caged Auxins*, [ChemBioChem 10, 2195 \(2009\)](#)
- [E1.5:17] \* ‡ K. Eggenberger, T. Schröder, E. Birtalan, S. Bräse, and P. Nick, *Passage of Trojan Peptides into Plant Cells*, [ChemBioChem 10, 2504 \(2009\)](#)
- [E1.5:18] \* ‡ P. Nick, M. Han, and G. An, *Auxin stimulates its own transport by actin reorganization*, [Plant Physiol. 151, 155 \(2009\)](#)
- [E1.5:19] Th. Berghöfer, C. Eing, B. Flickinger, P. Hohenberger, L. Wegner, W. Frey, and P. Nick, *Nanosecond electric pulses trigger actin responses in plant cells*, [Biochem. Biophys. Res. Comm. 387, 590 \(2009\)](#)

- [E1.5:20] ‡ F. Qiao, J. Petrášek, and P. Nick, *Light can rescue auxin-dependent synchrony of cell division in a tobacco cell line*, [J. Exp. Bot. 61, 503 \(2010\)](#)
- [E1.5:21] \* ‡ K. Eggenberger, N. Frey, B. Zienicke, J. Siebenbrock, T. Schunck, R. Fischer, S. Bräse, E. Birtalan, T. Nann, and P. Nick, *Use of nanoparticles to study and manipulate plant cells*, [Adv. Biomat. 12, 406 \(2010\)](#)
- [E1.5:22] \* K. Eggenberger, C. Mink, P. Wadhvani, A.S. Ulrich, and P. Nick, *Using the peptide BP100 as a cell penetrating tool for chemical engineering of actin filaments within living plant cells*, [ChemBioChem 12, 132 \(2011\)](#)
- [E1.5:23] J. Klotz and P. Nick, *A novel actin-microtubule cross-linking kinesin, NtKCH, functions in cell expansion and division*, *New Phytol.* **193**, 576 (2012)
- [E1.5:24] B. Zaban, J. Maisch, and P. Nick, *Dynamic actin controls polarity induction de novo in protoplasts*, *J. Int. Plant Biol.* **55**, 142 (2013)
- [E1.5:25] S. Durst, P. Nick, and J. Maisch, *Actin-Depolymerizing Factor 2 is Involved in Auxin Dependent Patterning*, *J Plant Physiol.* **170**, 1057 (2013)
- [E1.5:26] Q. Liu, F. Qiao, A. Ismail, X. Chang, and P. Nick, *The Plant Cytoskeleton Controls Regulatory Volume Increase*, *BBA Membranes.* **1828**, 2111 (2013)
- [E1.5:27] S. Kühn, Q. Liu, C. Eing, R. Wüstner, and P. Nick, *Nanosecond electric pulses target to a plant-specific kinesin at the plasma membrane*, *J Membrane Biol.* **246**, 927 (2013)
- [E1.5:28] \* S. Durst, P.N. Hedde, L. Brochhausen, P. Nick, G.U. Nienhaus, and J. Maisch, *Organization of perinuclear actin in live tobacco cells observed by PALM with optical sectioning*, *J Plant Physiol.* **141**, 97 (2014)

### Invited Talks at International Conferences

- P. Nick, CNR-ISMAL, Milano, June 6, 2006, *Nano meets Bio – a Case for Nanobiology*
- P. Nick, Université Louis Pasteur, Workshop on Imaging, Strasbourg, December 3, 2007, *Nano-Cell Biology*
- P. Nick, Charles University, 5th Symposium of the Czech Cytoskeletal Club, Prague, October 24, 2008, *Nanosciences for Plant Cell Biology*
- P. Nick, 1st Sino-German Symposium on Advanced Biomedical Nanostructures (SGSABN), Jena, October 26-30, 2009, *Use of nanoparticles to study and manipulate plant cells*
- P. Nick, 10th Korean-German Symposium on Plant Biotechnology, Jinju, South Korea, September 22-30, 2010, *Chemical Engineering and the Actin-Auxin Oscillator*
- P. Nick, Kolloquium Synthetische Biologie, TU Darmstadt, October 21, 2010, *Nano goes Bio – Nanoparticles and mechanosensors in plant cell biology*
- P. Nick, Symposium Advanced Biomaterials, Natl. Inst. Nanosci., Beijing, March 16, 2012, *Nano goes Bio – chemical engineering of plant cells*