

## Complete Publications

26. Nühse TS, Bottrill AR, Jones AME, **Peck SC** (2007) Quantitative phosphoproteomic analysis of plasma membrane proteins reveals regulatory mechanisms of plant innate immune responses *Plant J* 51: 931-940 [Cited: 0]
25. Heese A, Hann DR, Gimenez-Ibenaz S, Jones AME, He K, Li J, Schroeder JI, **Peck SC**, Rathjen JP (2007) The receptor-like kinase SERK3/BAK1 is a central regulator of innate immunity in plants *Proc Natl Acad Sci USA* 104: 12217-12222 [Cited: 1]
24. Kalde M, Nuhse TS, Findley K, **Peck SC** (2007) The syntaxin SYP132 contributes to plant resistance against bacteria and secretion of pathogenesis-related protein 1 (PR1) *Proc Natl Acad Sci USA* 104: 11850-11855 [Cited: 0]
23. Maor R, Jones AME, Nühse TS, Studholme DJ, **Peck SC**, Shirasu K (2007) Multidimensional protein identification technology (MudPIT) analysis of ubiquitinated proteins in plants. *Mol Cell Prot* 6: 601-610. [Cited: 2]
22. Ichimura K, Casais C, **Peck SC**, Shinozaki K, Shirasu K (2006) MEKK1 is required for MPK4 activation and regulates tissue specific and temperature dependent cell death in Arabidopsis. *J Biol Chem* 281: 36969-36976 [Cited: 12]
21. Meszaros T, Helfer A, Hatzimasoura E, Magyar Z, Serazetdinova L, Rios G, Bardoczky V, Teige M, Koncz C, **Peck SC**, Bogre L (2006) The Arabidopsis MAP kinase kinase MKK1 participates in defence responses to the bacterial elicitor flagellin. *Plant J* 48: 485-498 [Cited: 12]
20. Elortza F, Mohammed S, Bunkenborg J, Foster LJ, Nühse TS, Brodbeck U, **Peck SC**, Jensen ON (2006) Modification-specific proteomics of plasma membrane proteins: Identification and characterization of glycosylphosphatidylinositol-anchored proteins released upon Phospholipase D treatment. *J Prot Res* 5: 935-943 [Cited: 7]
19. **Peck SC** (2006) Phosphoproteomics in *Arabidopsis*: Moving from Empirical to Predictive Science. *J Exp Botany* 57: 1523-1527 [Cited: 6]
18. **Peck SC** (2006) Analysis of Protein Phosphorylation: Methods and Strategies for Studying Kinases and Substrates. *Plant J* 45: 512-522 [Cited: 6]
17. Assaad FF, Qiu J-L, Youngs H, Ehrhardt D, Zimmerli L, Kalde M, Wanner G, **Peck SC**, Ramonell K, Somerville CR, Thordal-Christensen H. (2004) The PEN1 syntaxin defines a novel compartment upon fungal attack and is required for the timely assembly of papilla. *Mol Biol Cell* 15: 5118-5129. [Cited: 39]
16. Nühse TS, Stansballe A, Jensen ON, **Peck SC** (2004) Phosphoproteomics of the Arabidopsis plasma membrane and a new phosphorylation site database. *Plant Cell* 16: 2394-2405. [Cited: 82]

15. Van der Hoorn RAL, Leeuwenburgh MA, Bogyo M, Joosten MHAJ, **Peck SC** (2004) Activity profiling of papain-like cysteine proteases in plants. *Plant Physiol* 135: 1170-1178. [Cited: 13]
14. Rentel MC, Lecourieux D, Ouaked F, Usher SL, Petersen L, Okamoto H, Knight H, **Peck SC**, Grierson CS, Hirt H, Knight MR (2004) OX11 kinase is necessary for oxidative burst-mediated signalling in Arabidopsis. *Nature* 427: 858-861. [Cited: 73]
13. Elortza F, Nühse TS, Stansballe A, **Peck SC**, Jensen ON (2003) Proteomic analysis of glycosylphosphatidylinositol-anchored membrane proteins. *Mol Cell Proteomics* 2: 1261-1270. [Cited: 42]
12. Nühse TS, Stansballe A, Jensen ON, **Peck SC** (2003) Large-scale analysis of in vivo phosphorylated membrane proteins by immobilized metal ion affinity chromatography and mass spectrometry. *Mol Cell Proteomics* 2: 1234-1243. [Cited: 143]
11. Nühse TS, Boller T, **Peck SC** (2003) A plasma membrane syntaxin is phosphorylated in response to the bacterial elicitor flagellin. *J Biol Chem* 278: 45248-45254. [Cited: 29]
10. Ulm R, Ichimura K, Mizoguchi T, **Peck SC**, Zhu T, Wang X, Shinozaki K, Paszkowski J (2002) Distinct regulation of salinity and genotoxic stress responses by Arabidopsis MAP kinase phosphatase 1. *EMBO J* 21: 6483-6493. [Cited: 40]
9. **Peck SC**, Nühse TS, Iglesias A, Hess D, Meins F, Boller T (2001) Directed proteomics identifies a plant-specific protein rapidly phosphorylated in response to bacterial and fungal elicitors. *Plant Cell* 13: 1467-1475. [Cited: 90]
8. Nühse T, **Peck SC**, Hirt H, Boller T (2000) Microbial elicitors induce activation and dual phosphorylation of the Arabidopsis MAP kinase AtMPK6. *J Biol Chem* 275: 7521-7526. [Cited: 111]
7. **Peck SC**, Pawlowski K, Kende H (1998) Asymmetric responsiveness to ethylene mediates cell elongation in the apical hook of peas. *Plant Cell* 10: 713-719 [Cited: 24]
6. **Peck SC**, Kende H (1998) A single gene encoding an auxin-induced ACC synthase produces two transcripts with alternative 5' ends. *Plant J* 14: 573-581 [Cited: 11]
5. **Peck SC**, Kende H (1998) Differential regulation of two ACC synthase genes in etiolated pea stems by auxin and wounding. *Plant Mol Biol* 38: 977-982 [Cited: 29]
4. Heidstra R, Yang WC, Yalcin Y, **Peck SC**, Emons AM, van Kammen A, Bisseling T (1997) Ethylene provides positional information on cortical cell division but is not involved in NOD factor-induced root hair tip growth in Rhizobium-legume interaction. *Development* 124: 1781-1787
3. **Peck SC**, Kende H (1995) Sequential induction of the enzymes of ethylene biosynthesis by indole-3-acetic acid in etiolated peas. *Plant Mol Biol* 28: 293-301 [Cited: 71]

2. **Peck SC**, Olson DC, Kende H (1993) A cDNA sequence encoding 1-aminocyclopropane-1-carboxylate oxidase from pea. *Plant Physiol* 101: 689-690[Cited: 18]

1. **Peck SC**, Reinhardt D, Olson DC, Boller T, Kende H (1992) Localization of the ethylene-forming enzyme from tomatoes, 1-aminocyclopropane-1-carboxylate oxidase, in transgenic yeast. *J Plant Physiol* 140: 681-686 [Cited: 18]

## **Publications (Reviews and Book Chapters)**

Peck SC (2008) Proteomics: Setting the Stage for Systems Biology in G Coruzzi, R Gutierrez (eds), Systems Biology, *Annual Plant Reviews*, Blackwell Publishing (in press)

Thelen J, **Peck SC** (2007) Quantitative Proteomics in Plants: Choices in Abundance *Plant Cell* (in press)

Serna-Sanz A, Rairdan G, **Peck SC** (2006) Preparative Denaturing Isoelectric Focussing for Enhancing Sensitivity of Proteomic Studies in P Ronald (ed.) Vol. 354, *Methods in Molecular Biology*, Humana Press, USA, pp 99-104.

Nühse TS, **Peck SC** (2006) Peptide-based Phosphoproteomics with Immobilized Metal Ion Chromatography (IMAC) in J Salinas, JJ Sanchez-Serrano (eds.) Vol 323, Arabidopsis Protocols, *Methods in Molecular Biology*, Humana Press, USA, pp 431-436.

**Peck SC** (2005) Update on Proteomics in Arabidopsis: Where Do We Go from Here? *Plant Physiol* 138: 591-599. [Cited: 16]

**Peck SC** (2003) Early phosphorylation events in biotic stress. *Curr Opinion Plant Biol* 6:334-338. [Cited: 16]