
Biographical Sketch

Usadel, Björn

Education

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Free University Berlin, Germany	Diplom	1996-01	Biochemistry
University of Potsdam/ Max Planck Institute of Mol. Plant Phys, Germany	PhD	01-04	Biochemistry
Max Planck Institute of Mol. Plant Phys, Germany	Post-Doc	04	Markus Pauly Lab
Max Planck Institute of Mol. Plant Phys, Germany	Post-doc	04-08	Mark Stitt Lab

Professional Experience

Group Leader, Max Planck Institute of Molecular Plant Physiology, 2008-present

Five Most Relevant Peer-Reviewed Publications

1. Usadel B, Obayashi T, Mutwil M, Giorgi FM, Bassel GW, Tanimoto M, Chow A, Steinhauser D, Persson S, Provart NJ (2009) Coexpression Tools for Plant Biology: Opportunities for Hypothesis Generation and Caveats. *Plant Cell Environ.* In press
2. Usadel B, Poree F, Nagel A, Lohse M, Czedik-Eysenberg A, Stitt M (2009) A guide to using MapMan to visualize and compare Omics data in plants: a case study in the crop species, Maize. *Plance Cell Environment* In press
3. Strickert M, Sreenivasulu N, Usadel B, Seiffert U (2007): Correlation-maximizing surrogate gene space for visual mining of gene expression patterns in developing barley endosperm tissue. *BMC Bioinformatics*, 8:165.
4. Usadel B, Nagel A, Steinhauser D, Gibon Y, Blaesing OE, Redestig H, Sreenivasulu N, Krall L, Hannah MA, Poree F, Fernie AR, Stitt M (2006) PageMan an interactive ontology tool to generate, display, and annotate overview graphs for profiling experiments, *BMC Bioinformatics* 18:7:535
5. Usadel B, Nagel A, Thimm O, Redestig H, Bläsing OE, Palacios-Rojas N, Selbig J, Hannemann J, Piques MC, Steinhauser D, Scheible WR, Gibon Y, Morcuende R, Weicht D, Meyer S, Stitt M (2005) Extension of the Visualization Tool MapMan to Allow Statistical Analysis of Arrays, Display of Corresponding Genes, and Comparison with Known Responses. *Plant Physiology*, 138:1195-1204.

Five Other Peer-Reviewed Publications:

6. Howell K, Narsai R, Carroll A, Ivanova A, Lohse M, Usadel B, Millar AH, Whelan J (2009) Mapping metabolic and transcript temporal switches during germination in *Oryza sativa* highlights specific transcription factors and the role of RNA instability in the germination process. *Plant Physiology* 149:961-80
7. Crowhurst RN, Gleave AP, MacRae EA, Ampomah-Dwamena C, Atkinson RG, Beuning LL, Bulley SM, Chagne D, Marsh KB, Matich AJ, Montefiori M, Newcomb RD, Schaffer RJ, Usadel B, Allan AC, Boldingh HL, Bowen JH, Davy MW, Eckloff R, Ferguson AR, Fraser LG, Gera E, Hellens RP, Janssen BJ, Klages K, Lo KR, MacDiarmid RM, Nain B,

- McNeilage MA, Rassam M, Richardson AC, Rikkerink EH, Ross GS, Schröder R, Snowden KC, Souleyre EJ, Templeton MD, Walton EF, Wang D, Wang MY, Wang YY, Wood M, Wu R, Yauk YK, Laing WA (2008) Analysis of expressed sequence tags from actinidia: applications of a cross species EST database for gene discovery in the areas of flavor, health, color and ripening. *BMC Genomics* 2008, 9:351
8. May P, Wienkoop S, Kempa S, Usadel B, Christian N, Rupprecht J, Weiss J, Recuenco-Munoz L, Ebenhöf O, Weckwerth W, Walther D (2008) Metabolomics- and proteomics-assisted genome annotation and analysis of the draft metabolic network of *Chlamydomonas reinhardtii*. *Genetics*. 179:157-66.
 9. Sreenivasulu N, Usadel B, Winter A, Radchuk V, Scholz U, Stein N, Weschke W, Strickert M, Close TJ, Stitt M, Graner A, Wobus U (2008) Barley grain maturation and germination: Metabolic pathway and regulatory network commonalities and differences highlighted by new MapMan/PageMan profiling tools. *Plant Physiol.*, 146:1734-1761
 10. Rautengarten C, Usadel B, Neumetzler L, Hartmann J, Büssis D, Altmann T (2008) A Subtilisin-like Serine Protease essential for Mucilage Release from *Arabidopsis* Seed Coats, *Plant J*, 54:466-480

Synergistic Activities Co-organized a summer school on quantitative Biology; Developed and mounted a bioinformatics lab-based course for Biology PhD students; Organized and performed several hands on training courses for omics data evaluation and visualization; Associate Editor for *Plant Molecular Biology*;

Major Collaborators and Co-Editors last 48months

Aharoni A, Weizmann Institute Israel; Fernie A, Max Planck Institute of Molecular Plant Physiology; Fernando Carrari, INTA Argentina; Gibon Y, INRA Bordeaux; Gruden K, Slovenian Institute of Biology; Junker B, Institute of Plant Genetics and Crop Plant Research, Germany; Laing W, HortResearch New Zealand; Pauly M, Michigan State University; Persson S, Max Planck Institute of Molecular Plant Physiology; Provart N, University of Toronto; Schreiber F, Institute of Plant Genetics and Crop Plant Research, Germany; Srenivasulu N, Institute of Plant Genetics and Crop Plant Research, Germany; Stitt M, Max Planck Institute of Molecular Plant Physiology; Tardieu F, INRA Montpellier

Graduate and Postdoctoral Advisors

Ulrike Gaul, Rockefeller University; Manfred Schweiger, Free University Berlin, retired; Markus Pauly, Michigan State University; Mark Stitt, Max Planck Institute of Molecular Plant Physiology

Thesis Advisor and Postdoctoral Scholar Sponsor, (3 graduate students, 3 post-doctoral, 2 scientists): Malgorzata Ryngalljo, Federico Giorgi, Aleksandar Vassilevski: University of Potsdam/Max Planck Institute of Mol. Plant Physiology. Marc Lohse, Thomas Herter, Heike Riegler: Max Planck Institute of Molecular Plant Physiology
Alex Finck, Tony Bolger: Max Planck Institute of Molecular Plant Physiology