

Verzeichnis der in der Arbeit zusammengefaßten Publikationen:

1. Feussner, I, Kühn, H (1995) The lipid body lipoxygenase from cucumber seedlings exhibits unusual reaction specificity. FEBS Lett. 367: 12-14
2. Feussner, I, Hause, B, Vörös, K, Parthier, B, Wasternack, C (1995a) Jasmonate-induced lipoxygenase forms are localized in chloroplasts of barley leaves (*Hordeum vulgare* cv *Salome*). Plant J. 7: 949-957
3. Feussner, I, Wasternack, C, Kindl, H, Kühn, H (1995b) Lipoxygenase-catalyzed oxygenation of storage lipids is implicated in lipid mobilization during germination. Proc. Natl. Acad. Sci. USA 92: 11849-11853
4. Feussner, I, Hause, B, Nellen, A, Wasternack, C, Kindl, H (1996) Lipid-body lipoxygenase is expressed in cotyledons during germination prior to other lipoxygenase forms. Planta 198: 288-293
5. Feussner, I, Kühn, H, Wasternack, C (1997a) Do specific linoleate 13-lipoxygenases initiate  $\beta$ -oxidation? FEBS Lett. 406: 1-5
6. Feussner, I, Balkenhohl, TJ, Porzel, A, Kühn, H, Wasternack, C (1997b) Structural elucidation of oxygenated storage lipids in cucumber cotyledons - Implication of lipid body lipoxygenase in lipid mobilization during germination. J. Biol. Chem. 272: 21635-21641
7. Holtman, WL, Vredenburg-Heistek, JC, Schmitt, NF, Feussner, I (1997) Lipoxygenase-2 oxygenates storage lipids in embryos of germinating barley. Eur. J. Biochem. 248: 452-458
8. Feussner, I, Wasternack, C (1998) Lipoxygenase catalyzed oxygenation of lipids. Fett/Lipid 100: 146-152
9. Feussner, I, Bachmann, A, Höhne, M, Kindl, H (1998) All three acyl moieties of trilinolein are efficiently oxygenated by recombinant His-tagged lipid body lipoxygenase *in vitro*. FEBS Lett. 431: 433-436
10. Vörös, K, Feussner, I, Kuhn, H, Lee, J, Graner, A, Löbler, M, Parthier, B, Wasternack, C (1998) Characterization of a methyljasmonate-inducible lipoxygenase from barley (*Hordeum vulgare* cv. *Salome*) leaves. Eur. J. Biochem. 251: 36-44
11. Kohlmann, M, Bachmann, A, Weichert, H, Kolbe, A, Balkenhohl, TJ, Wasternack, C, Feussner, I (1999) Formation of lipoxygenase pathway-derived aldehydes in barley leaves upon methyl jasmonate treatment. Eur. J. Biochem. 260: 885-895
12. Hornung, E, Walter, M, Kühn, H, Feussner, I (1999) Conversion of cucumber linoleate 13-lipoxygenase to a 9-lipoxygenating species by site-directed mutagenesis. Proc. Natl. Acad. Sci. USA 96: 4192-4197