

# Exploring the use of fruit callus culture as a model system to study color development and cell wall remodeling during strawberry fruit ripening

Pablo Ric-Varas, Marta Barceló, Juan A. Rivera, Sergio Cerezo, Antonio J. Matas, Julia Schückel, J. Paul Knox, Sara Posé, Fernando Pliego-Alfaro, José A. Mercado

## Supplementary Material

**Supplementary Table S1.** List of monoclonal antibodies used in the carbohydrate microarray and the epitopes recognized by each mAb.

Antibody	Cell wall epitope	Reference
LM18	Partially Me-HG / no ester	Verhertbruggen et al. (2009) Carbohydr. Res. 344, 1858
LM19	Partially Me-HG / no ester	Verhertbruggen et al. (2009) Carbohydr. Res. 344, 1858
JIM5	Partially Me-HG / no ester	Knox et al. (1990) Planta 181, 512-521
JIM7	Partially Me-HG	Knox et al. (1990) Planta 181, 512-521
LM5	(1→4)- $\beta$ -D-galactan	Jones et al. (1997) Plant Physiol. 113, 1405-1412
LM6-M	(1→5)- $\alpha$ -L-arabinan	Cornuault et al. (2017) BiorXiv: doi.org/10.1101/161604
INRA-RU1	[→2)- $\alpha$ -L-rhamnose-galacturonic acid-(1→]7	(1→4)- $\alpha$ -D- Ralet et al. (2010) Planta 231, 1373-1383
INRA-RU2	[→2)- $\alpha$ -L-rhamnose-galacturonic acid-(1→]7	(1→4)- $\alpha$ -D- Ralet et al. (2010) Planta 231, 1373-1383
LM13	Linearised (1→5)- $\alpha$ -L-arabinan	Moller et al. (2008) Glycoconjugate J. 25, 37-48
LM26	Branched galactan	Torode et al. (2018) Plant Physiol. 176, 1547-1558
LM15	Xyloglucan (XXXG motif)	Marcus et al. (2008) BMC Plant Biol. 8, 60
LM25	XXXG/galactosylated xyloglucan	Pedersen et al. (2012) J. Biol. Chem. 287, 39429-39438
LM11	(1→4)- $\beta$ -D-xylan / arabinoxylan	McCartney et al. (2005) J. Histochem Cytochem 53, 543
LM23	Non-acetylated xylosyl	Manabe et al. (2011) Plant Physiol. 155, 1068-1078
LM28	Glucuronoxylan	Cornuault et al. (2015) Planta 242, 1321-1334
LM1	Extensin	Smallwood et al. (1995) Planta 196, 510-522
JIM11	Extensin	Smallwood et al. (1994) Plant J. 5, 237-246
JIM20	Extensin	Smallwood et al. (1994) Plant J. 5, 237-246
JIM13	AGP glycan	Knox, et al. (1991) Plant J. 1, 317-326
LM21	Heteromannan	Marcus et al. (2010) Plant J. 64, 191-203
LM27	Grass heteroxylan	Cornuault et al. (2015) Planta 242, 1321-1334

**Supplementary Figure S1.** Variables factor map obtained in the PCA analysis of carbohydrate microarray data.

