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| 1. | Record Nr. | UNISA996218278803316 |
| | Titolo | Plant cell separation and adhesion [[electronic resource] /] / edited by Jeremy A. Roberts and Zinnia Gonzalez-Carranza |
| | Pubbl/distr/stampa | Oxford, : Blackwell, 2007 |
| | ISBN | 1-281-32027-7<br>9786611320270<br>0-470-98882-7<br>0-470-99425-8 |
| | Descrizione fisica | 1 online resource (234 p.) |
| | Collana | Annual plant reviews ; ; v. 25 |
| | Altri autori (Persone) | RobertsJ. A (Jeremy A.)<br>Gonzalez-CarranzaZinnia |
| | Disciplina | 571.62<br>580.5 |
| | Soggetti | Cell separation<br>Cell adhesion<br>Plant cell differentiation<br>Plant cellular control mechanisms |
| | Lingua di pubblicazione | Inglese |
| | Formato | Materiale a stampa |
| | Livello bibliografico | Monografia |
| | Note generali | Description based upon print version of record. |
| | Nota di bibliografia | Includes bibliographical references and index. |
| | Nota di contenuto | Plant Cell Separation and Adhesion; Contents; Contributors; Preface; 1 Cell separation and adhesion processes in plants; 1.1 Introduction; 1.2 Cell separation processes; 1.3 Cell adhesion processes; 1.4 Manipulation of cell separation and adhesion in crop plants; 1.5 Conclusions; References; 2 Cell wall structure, biosynthesis and assembly; 2.1 Introduction; 2.2 Primary cell walls: composition and biosynthesis; 2.2.1 Cellulose; 2.2.2 Callose; 2.2.3 Hemicelluloses; 2.2.3.1 Xyloglucan; 2.2.3.2 Arabinoxylan; 2.2.3.3 Galacto(gluco) mannan; 2.2.3.4 Mixed-linkage glucan; 2.2.4 Pectic polymers 2.2.4.1 Homogalacturonans2.2.4.2 Rhamnogalacturonan I; 2.2.4.3 Rhamnogalacturonan II; 2.2.5 Cell wall structural proteins; 2.3 Cell wall architecture; 2.4 Primary cell wall expansion and regulation; 2.4.1 Cellulose deposition and orientation; 2.4.2 Hemicelluloses and their reorganization; 2.4.2.1 Expansins; 2.4.2.2 Xyloglucan endotransglucosylase/hydrolases; 2.4.3 Pectins involved in cell wall |

| Sommario/riassunto | Cell separation is an important process that occurs throughout the life cycle of a plant. It enables the radicle to emerge from the germinating seed, vascular tissue to differentiate, sculpturing of leaves and flowers to take place, pollen to be shed from the mature anther, fruit to soften, senescent and non-functional organs to be lost, and seeds to be shed. In addition to its intrinsic scientific interest, many of the developmental processes to which it contributes have importance for agriculture and horticulture.This is the first volume to focus exclusively on these processe |