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| 1. Record Nr.           | UNINA9910830148403321   |
| 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)  | Roberts J. A (Jeremy A.)<br>Gonzalez-Carranza Zinnia  |
| 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(glucosyl)mannan; 2.2.3.4 Mixed-linkage glucan; 2.2.4 Pectic polymers 2.2.4.1 Homogalacturonans 2.2.4.2 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 |

structure and intercellular adhesion; 2.5 Concluding remarks; Acknowledgements; References; 3 Vascular cell differentiation; 3.1 TE differentiation as a model of cell-cell connection  
3.2 Early processes induced by cell separation  
3.3 Factors that regulate TE cell differentiation; 3.3.1 Auxin; 3.3.2 Plant sterols; 3.3.3 Xylogen;  
3.4 Effects of tissue organization on cell differentiation; 3.5 Cell wall components characteristic of TE and/or vascular cells; 3.5.1 Cellulose; 3.5.2 Hemicellulose; 3.5.3 Pectin; 3.5.4 Lignin; 3.5.5 Cell wall component proteins; 3.6 The degradation of TE primary cell walls and pore formation; 3.7 Co-regulation of cell wall degradation and PCD; 3.8 Conclusion; References; 4 Cell adhesion, separation and guidance in compatible plant reproduction  
4.1 Introduction  
4.2 Pollen formation and microspore separation; 4.2.1 Pollen mother cell and tetrad walls; 4.2.2 Microspore separation; 4.2.3 Pollen grain wall and pollen coat; 4.3 Pollen-stigma adhesion and pollen tube guidance; 4.3.1 Adhesion of pollen grain; 4.3.2 Pollen tube emergence and guidance on the stigma; 4.4 Adhesion and guidance of pollen tubes in the style; 4.4.1 Proline/hydroxyproline-rich glycoproteins; 4.4.1.1 Pollen and pistil AGPs; 4.4.1.2 Pex, pollen-specific leucine-rich repeat extensin chimeras; 4.4.2 Pollen and pistil cysteine-rich proteins; 4.4.2.1 SCA-pectin complex  
4.4.2.2 Cys-rich protein's interaction with pollen LRR receptor kinases  
4.4.3 Wall-associated kinases; 4.5 Cell wall modifying proteins and pollen tube growth in the ECM; 4.5.1 Cell wall modifying proteins from pollen; 4.5.2 Cell-wall-modifying proteins in the pistil; 4.6 Pollen tube adhesion, interaction and guidance in the ovary; 4.6.1 Pollen tube attraction by sporophytic cells; 4.6.2 Pollen tube guidance by gametophytic cells; 4.6.3 Interaction during fertilization: female control of male gamete delivery; 4.7 Conclusions and perspectives; Acknowledgements; References  
5 Cell separation in roots

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## 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 processes

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| 2. Record Nr.           | UNINA9910161649903321  |
| Autore                  | Mark A. Williams   |
| Titolo                  | Facing the Other: Novel Theories and Methods in Face Perception Research   |
| Pubbl/distr/stampa      | Frontiers Media SA, 2016   |
| Descrizione fisica      | 1 online resource (369 p.)   |
| Collana                 | Frontiers Research Topics  |
| Soggetti                | Neurosciences  |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Sommario/riassunto      | <p>We rely heavily on faces during social interactions. Humans possess the ability to recognise thousands of people very quickly and accurately without effort. The serious social difficulties that follow abnormalities of the face recognition system (i.e., prosopagnosia) strongly underline the importance of typical face skills in our everyday life. Over the last fifty years, research on prosopagnosia, along with research in the healthy population, has provided insights into the cognitive and neural features behind typical face recognition. This has also been achieved thanks to non-invasive neuroimaging techniques such as functional Magnetic Resonance Imaging (fMRI), Electroencephalography (EEG), Magnetoencephalography (MEG), Diffusion Tensor Imaging (DTI) and Transcranial Magnetic Stimulation (TMS). However, there is still much debate about the cognitive and neural mechanisms of face perception. In the current Research Topic we plan to gather experimental works, opinions, commentaries, mini-reviews and reviews that focus on new or novel theories and methods in face perception research. Where is the field at the moment? Do we need to re-think the experimental procedures we have adopted so far? Again, what kind of techniques (or combination of them) and analysis methods will be important in the future? From the experimental point of view we encourage both behavioural and neuroimaging contributions (e.g., fMRI, EEG, MEG, DTI and TMS). Despite the main emphasis on face perception, memory and identification, we will also consider original works that focus on other</p> |

aspects of face processing, such as expression recognition, attractiveness judgments and face imagery. In addition, animal investigations and experimental manipulations that alter face recognition abilities in typical human subjects (e.g., hypnosis) are also welcome. Overall, we are proposing a Research Topic that looks at face processing using different perspectives and welcome contributions from different domains such as psychology, neurology, neuroscience, cognitive science and philosophy. The current Research Topic evolved over the desire to acknowledge the relatively recent loss of three giants in the field: Drs. Shlomo Bentin, Truett Allison and Andy Calder. We dedicate this Research Topic to them and their pioneering studies.

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