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| 1. Record Nr.           | UNINA9910298295803321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Titolo                  | Stress Responses in Plants : Mechanisms of Toxicity and Tolerance // edited by Bhumi Nath Tripathi, Maria Müller                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Pubbl/distr/stampa      | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ISBN                    | 3-319-13368-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Edizione                | [1st ed. 2015.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Descrizione fisica      | 1 online resource (293 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Disciplina              | 570<br>571.2<br>572572<br>615                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Soggetti                | Plant physiology<br>Botanical chemistry<br>Pharmacology<br>Plant Physiology<br>Plant Biochemistry                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Nota di contenuto       | Preface -- Introduction to stress in plants -- Mechanism of heavy metal toxicity and tolerance -- Mechanism of aluminium toxicity and tolerance -- Mechanism of arsenic toxicity and tolerance -- Mechanism of salt toxicity and tolerance -- Mechanism of drought stress and tolerance -- Mechanism of light stress and tolerance -- Mechanism of temperature stress and tolerance -- Mechanism of flood stress and tolerance -- Mechanism of UV-B stress and tolerance.                                                                                           |
| Sommario/riassunto      | This collection discusses the variety of specific molecular reactions by means of which plants respond to physiological and toxic stress conditions. It focuses on the characterization of the molecular mechanisms that underlie the induction of toxicity and the triggered responses and resistances. The nine chapters, all written by prominent researchers, examine heavy metal toxicity, aluminum toxicity, arsenic toxicity, salt toxicity, drought stress, light stress, temperature stress, flood stress and UV-B stress. In addition, information on the |

fundamentals of stress responses and resistance mechanisms is provided. The book addresses researchers and students working in the fields of plant physiology and biochemistry.

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