

|                         |   |
|-------------------------|---|
| 1. Record Nr.           | UNINA9910298622403321   |
| Autore                  | Bandyopadhyay Abhijit   |
| Titolo                  | Nanoparticles in Lung Cancer Therapy - Recent Trends [[electronic resource] /] / by Abhijit Bandyopadhyay, Tamalika Das, Sabina Yeasmin   |
| Pubbl/distr/stampa      | New Delhi : , : Springer India : , : Imprint : Springer, , 2015   |
| ISBN                    | 81-322-2175-3   |
| Edizione                | [1st ed. 2015.]   |
| Descrizione fisica      | 1 online resource (78 p.)   |
| Collana                 | SpringerBriefs in Molecular Science, , 2191-5407  |
| Disciplina              | 616.99406   |
| Soggetti                | Nanochemistry<br>Cancer - Research<br>Pharmaceutical chemistry<br>Cancer Research<br>Medicinal Chemistry  |
| 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 at the end of each chapters.  |
| Nota di contenuto       | Introduction -- Natural and semi-synthetic nanoparticles in lung cancer diagnosis and therapy -- Synthetic (organic) nanoparticles induced lung cancer diagnosis and therapy -- Synthetic (inorganic) nanoparticles based lung cancer diagnosis and therapy -- Conclusion and future prospects -- References.   |
| Sommario/riassunto      | This brief provides an insight into the present scenario of the role of nanotechnology in the diagnosis and treatment of lung cancer at an early stage. Currently, lung cancer is the subject of major concern owing to the very high mortality rate throughout the world. Most of the conventional treatment methods such as surgery, chemotherapy, radiotherapy, etc., fail to prolong life of the patients. Incidents of recurrence are also very common in case of lung cancer. Researchers have shown that nanoparticles may act as a powerful anti cancer tool, especially for lung cancer. Unique surface properties and easy surface functionalization of nanoparticles enable early detection, diagnosis, imaging and treatment of lung cancer. The authors have elaborately presented how various nanoparticles (natural, semi synthetic and synthetic) may help in the treatment of lung cancer. They have also detailed works of various scientists who succeeded in developing |

effective nanoparticles and enabled very specific lung cancer therapy without any undesirable side effects and minimized death.

---