



# Optical Detection of Cancer

*Arlen D Meyers*

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Significant progress in engineering has allowed the production of devices that can optically detect, differentiate and treat surface or near-surface cancers. The ability to differentiate cancerous from non-cancerous tissue *in vitro* using light represents a potentially significant advance in patient care, eliminating needless repeat procedures. With the help of advanced optical technologies, clinicians are able to identify cancers earlier, determine surgical margins at the time of surgery, and monitor treatment results without using expensive and insensitive imaging.

This volume describes the state-of-the-art optical detection technologies in varying stages of cancer development. Written by an international panel of basic researchers, engineers and clinicians, the book is designed to give an up-to-date overview of the most recent advances for researchers and medical professionals who are interested in the biophotonic detection of cancer.

### Contents:

- The Optical Detection of Cancer: An Introduction (*Toby Steele and Arlen Meyers*)
- Optical Coherence Tomography in Oral Cancer (*Shahareh Sabet and Petra Wilder-Smith*)
- Optical Coherence Tomography in Laryngeal Cancer (*Marcel Kraft and Christoph Arens*)
- Fluorescence Imaging of the Upper Aerodigestive Tract (*Christian Stephan Betz, Andreas Leunig and Christoph Arens*)
- Photodynamic Diagnosis and Photodynamic Therapy Techniques (*Zheng Huang*)
- OCT Detection of Lung Cancer (*S Murgu and M Brenner*)
- Diffuse Optical Spectroscopy and Imaging in Breast Cancer (*Albert E Cerussi and Bruce J Tromberg*)
- OCT for Skin Cancer (*Gordon McKenzie and Adam Meekings*)

**Readership:** Researchers and medical professionals who are interested in the biophotonic detection of cancer, including oral surgeons, general surgeons, otolaryngologists, and primary-care physicians.

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