List of Publications

Chapter 7

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1. Anita H. Gharekhan, Siddharth Arora, Asima Pradhan, K. B. K. Mayya and Prasanta K. Panigrahi, "Diagnosis of Human Breast Cancer through the Spectral Correlation Properties of Polarised Fluorescence", in Proceedings of ***National Seminar on Emerging Trends in Physics Education and Experimental Physics***, (October 2006).

2. Anita Gharekhan, Asima Pradhan, M.B. Sureshkumar and Prasanta K. Panigrahi, "Characterizing Normal, Cancer and Benign Human Breast Tissues Fluorescence Spectra through Wavelet Transform", Proceedings of ***Seventh DAE-BRNS National Laser Symposium NLS-07***, 441 (December 2007).

3. Anita Gharekhan, N. C. Biswal, Sharad Gupta, Asima Pradhan, M.B. Sureshkumar and Prasanta K. Panigrahi "Characterisation of Cancer and Normal Tissue Fluorescence Through Wavelet Transform and Singular Value Decomposition" Proceedings of ***SPIE, Optical Biopsy VII***, Vol. 6853, 68531G-1 (2008).

4. Anita Gharekhan, Dharitri Rath, M.B. Sureshkumar, Prasanta K. Panigrahi and Asima Pradhan, "Comparing spectral fluctuations between Laser and Lamp tissue auto fluorescence data", ***Saratov Fall Meeting, SFM'08, Russia***, On-line Publication (September 2008).

5. Anita H. Gharekhan, Siddharth Arora, K. B. K. Mayya, Prasanta K. Panigrahi, M. B. Sureshkumar and Asima Pradhan, "Characterizing breast cancer tissues through the spectral correlation properties of polarized fluorescence", ***Journal of Biomedical Optics*** **13(5)**, 054063 (September/October 2008).

Also published in ***Virtual Journal of Biological Physics Research***, **16(9)**, November 1, (2008).

6. Anita Gharekhan, M.B. Sureshkumar, Prasanta K. Panigrahi and Asima Pradhan, "Character of the spectral variations in cancer, normal and benign tissues" Proceeding of ***International conference of fibre optics and photonics "PHOTONICS 2008"***, 339 (December 2008).

7. Anita H. Gharekhan, Dhaitri Rath, Ashok N. Oza, M.B. Sureshkumar, Prasanta K. Panigrahi and Asima Pradhan, "Characterizing Fluorescence Spectral features of Tissues through Principal Component Analysis", Proceedings of ***Eighth DAE-BRNS National Laser Symposium NLS-08*** (January 2009).

8. Anita H. Gharekhan, Dhaitri Rath, Ashok N. Oza, Asima Pradhan, M.B. Sureshkumar and Prasanta K. Panigrahi, "Comparing spectral features of normal and cancerous human breast tissues with laser and lamp as excitation sources", Proceedings of ***SPIE, Dynamics and Fluctuation in Biomedical Photonics VI***, **7176**, 717608-1 (2009).

9. Anita H. Gharekhan, Ashok N. Oza, Asima Pradhan, M.B. Sureshkumar and Prasanta K. Panigrahi, "Characterizing Fluorescence Spectral features of Cancer, Benign and Normal Human Breast Tissues through Wavelet Transform and Singular Value Decomposition", Proceedings of ***European Conferences on Biomedical Optics (ECBO)***, 73730O-1 (June 2009).

10. Anita Gharekhan, Ashok N. Oza, Asima Pradhan and Prasanta K. Panigrahi, "Study of polarized spectral features of human breast tissues through wavelet transform and principal component analysis", Proceedings of ***Ninth***

DAE-BRNS National Laser Symposium NLS-09 (January 2010).

11. Anita Gharekhan, Siddharth Arora, Ashok N. Oza, M.B. Sureshkumar, Asima Pradhan and Prasanta K. Panigrahi, "Characterizing polarized autofluorescence of Normal and Benign tissues using Singular Value Decomposition and Wavelet Transform", Proceedings of ***SPIE, Dynamics and Fluctuation in Biomedical Photonics VII***, **7563** 756308-1 (2010).

12. Anita H. Gharekhan, Siddharth Arora, Prasanta K. Panigrahi, and Asima Pradhan, "Distinguishing Cancer and Normal Breast Tissue Autofluorescence Using Continuous Wavelet Transform", ***IEEE Journal of selected topics in Quantum Electronics***, **16(4)**, 893 (July/August 2010).

13. Anita Gharekhan, N. C. Biswal, Sharad Gupta, M.B. Sureshkumar, Prasanta K. Panigrahi, and Asima Pradhan, "Characteristic spectral features of the polarized fluorescence of human breast cancer in the wavelet domain", ***Journal of Applied Spectroscopy of America***, under consideration for publication.

14. Anita Gharekhan, Ashok N. Oza, M.B. Sureshkumar, Asima Pradhan and Prasanta K. Panigrahi, "Study of polarized spectral features of human breast tissues through wavelet transform and principal component analysis", ***PRAMANA -Journal of Physics***, selected for publication in special issue.

15. Anita Gharekhan, Siddharth Arora, Ashok N. Oza, M.B. Sureshkumar, Asima Pradhan and Prasanta K. Panigrahi, "Distinguishing auto-fluorescence of Normal, Benign and Cancerous Breast Tissues through Wavelet Domain Correlation Studies", ***Journal of Biomedical Optics***, **16(8)**, 087003 (August 2011).

Also published in ***Virtual Journal of Biological Physics Research***, **22(4)**, August 15, (2011).