

BI-MODAL IMAGING SYSTEM USING FLUORESCENCE AND ULTRASOUND FOR PROSTATE CANCER LOCALIZATION

C. Handschin, A. Koenig, J. Boutet, L. Hervé, M. Perriollat, C. Genevois, O. Redon, F. Couillaud, S. Morales, J.M. Dinten, and N. Grenier.













Situation of the problem / Aim of the project



Prostate cancer:

- 50 000 new cases/year in France
- 25% of cancers for male population.
- 15 % of death by cancer

Need of imaging system to localize the cancerous regions.

Current diagnostic:







Result:

- Normal
- Abnormal
 - Benign
 - Cancer

No way to localize nodules for biopsies.

- ⇒ Several series of biopsies necessary to reach the region.
- ⇒ Invasive process.

Bi-Modal imaging system using fluorescence (1) and ultrasound (2)

