

**CURRENT AND EMERGING CANCER DIAGNOSTIC TESTS**  
*Emerging Assays, and Companies Developing  
New Technologies and Products*

Table of Contents

Major Current And Emerging Cancer Diagnostic Tests

1. Introduction
2. Tumor Marker Classification
3. ACTH
4. Alpha-Fetoprotein (AFP)
5. Beta-2 Microglobulin
6. CA 15-3/27.29
7. CA 19-9
8. CA-125
9. Calcitonin
10. Carcinoembryonic Antigen (CEA)
11. Estrogen and Progesterone Receptors
12. Ferritin
13. Gastrin
14. Human Chorionic Gonadotropin (HCG)
15. Insulin
16. NSE
17. Occult Blood
18. PAP Smear/HPV
19. Prostatic Acid Phosphatase (PAP)
20. Prostate-Specific Antigen (PSA)
21. Squamous Cell Carcinoma Antigen (SCC)
22. T and B Lymphocytes
23. TdT
24. Thyroglobulin
25. Tissue Polypeptide Antigen (TPA)
26. Biochemical Tumor Markers
  - ADA
  - B-Protein
  - PNP
  - 5'-Nucleotidase
27. Oncogenes
  - Abl/abl-bcr
  - AIB1
  - BCL-2
  - BRCA1
  - CD44

Table of Contents (continued)

- *C-fos*
- *C-myb*
- *C-myc*
- *CYP-17*
- *Erb-B*
- *HPC1*
- *N-myc*
- *P40*
- *P51*
- *P53*
- *PIK3CA*
- *PTI-1*
- ? *Ras*
- ? *Reg*
- ? *Sis*
- ? *Src*
- 28. *Polypeptide Growth Factors*
  - ? *Basic Fibroblast Growth Factor*
  - ? *Beta-TGF*
  - ? *Cachectin (TNT)*
  - ? *Calmodulin*
  - ? *ECFR*
  - ? *Nerve Growth Factor (NGF)*
  - ? *Epidermal Growth Factor (EGF)*
  - ? *Ornithine Decarboxylase*
  - ? *Transferrin*
  - ? *Transforming Growth Factor-Alpha*
- 29. *Ectopic Hormones*
- 30. *Colony Stimulating Factors*
- 31. *Lymphokines*
  - ? *Alpha-Interferon*
  - ? *B Cell Growth Factors*
  - ? *B Cell Growth Factor (BCGF)*
  - ? *Gamma-Interferon*
  - ? *Interleukin-1 (IL-1)*
  - ? *Macrophage Activating Factor*
- 32. *Immunohistochemical Stains*
- 33. *Emerging Tumor Markers*
  - ? *N-Acetylglucosamine*
  - ? *Actin*
  - ? *Alpha-Actin*

Table of Contents (continued)

- *Antineuronal Antibodies*
- *7B2*
- *B72.3*
- *Bax*
- *BCD-F9*
- *BLCA-4*
- *Blood Group Antigens A,B,H*
- *CA 50*
- *CA 72-4/TAG-72*
- *CA 195*
- *CA-242*
- *CA-549*
- *CAM 26*
- *CAR-3*
- *Cathepsin-D*
- *Chromogranin A and B*
- *Cluster 1 Antigen*
- *Cluster-5/5A Antigen*
- *CTA*
- *CU18*
- *DR-70*
- *DU-PAN-2*
- *Endometrial Bleeding Associated Factor*
- *Endostatin*
- *Epithelial Membrane Antigen*
- *Feulgen Hydrolysis*
- *Fibronectin*
- *FSH*
- *(1->3)-L-fucosyltransferase*
- *Gastrin-Releasing Peptide (GRP)*
- *GDCFP-15*
- *Glucagon*
- *Glycoamines*
- *H23*
- *Her-2*
- *Human Carcinoma Antigen*
- *HPA*
- *HSP27*
- *Intermediate Filaments*

Table of Contents (continued)

- Cytokeratins/CK18/Cyfra 21-1
- Desmin
- Gliofibrillary Acid Protein
- Neurofilaments
- Vimentin
- KA 93
- Kinases
- KP16D3
- LAI
- Leukocyte Common Antigen
- Lewis Antigens
- Lysophosphatidic Acid (LPA)
- Ma 695/Ma 552
- MABDF3
- MAG
- ME1
- Minactivin
- MN/CA9
- MSA
- Mucin Cancer Antigen (MCA)
- Multiple Tumor Suppressor 1
- Myosin
- NEA-130
- NMP22
- OA-519
- Opiod Peptides
- P-glycoprotein
- Pancreatic Oncofetal Antigen (POA)
- Placental Lactogen
- PR92
- Proliferative Index, Ki-67
- Px
- RB Inactivation/Deletion
- Ret
- SCCL 175
- Selectin
- Sialic Acid
- Sialyl SSEA-1/SLX

Table of Contents (continued)

- SN10
- Somatostatin
- TA-90
- TABA
- Tachykinin
- TAG 12
- TPS
- Troponin
- Tubulin
- VCAM
- VEGF
- Villen

Appendixes

*Appendix I: Major Universities and Research  
Centers Developing Cancer Diagnostic  
Technology and Applications*

List of Tables

*Tumor Marker Classification*

*Major Companies Developing or Marketing  
ACTH Tests*

*Major Companies Developing or Marketing  
AFP Tests*

*Major Companies Developing or Marketing  
Beta-2 Microglobulin Tests*

*Major Companies Developing or Marketing  
CA 15-3/27.29 Tests*

*Major Companies Developing or Marketing  
CA 19-9 Tests*

*Major Companies Developing or Marketing  
CA 125 Tests*

*Major Companies Developing or Marketing  
Calcitonin Tests*

*Major Companies Developing or Marketing  
CEA Tests*

*Major Companies Developing or Marketing  
Estrogen Receptor Tests*

*Major Companies Developing or Marketing  
Progesterone Receptor Tests*

*Major Companies Developing or Marketing  
Ferritin Tests*

*Major Companies Developing or Marketing  
Gastrin Tests*

List of Tables (continued)

*Major Companies Developing or Marketing  
HCG Tests*

*Major Companies Developing or Marketing  
Insulin Tests*

*Major Companies Developing or Marketing  
NSE Tests*

*Major Companies Developing or Marketing  
Occult Blood Tests*

*Major Companies Developing or Marketing  
PAP Smear/HPV Tests*

*Major Companies Developing or Marketing  
PAP Tests*

*Major Companies Developing or Marketing  
PSA Tests*

*Major Companies Developing or Marketing  
Lymphocyte Subclassification Tests*

*Biochemical Markers Potential Applications  
In Cancer Diagnosis*

*Oncogenes Potential Applications  
In Cancer Diagnosis*

*Major Companies Developing or Marketing  
Oncogene Tests*

*Growth Factors Potential Applications  
In Cancer Diagnosis*

List of Tables (continued)

*Colony Stimulating Factors Potential  
Applications in Cancer Diagnosis*

*Lymphokines Potential Applications  
In Cancer Diagnosis*

*Immunohistochemical Stains Potential  
Applications in Cancer Diagnosis*