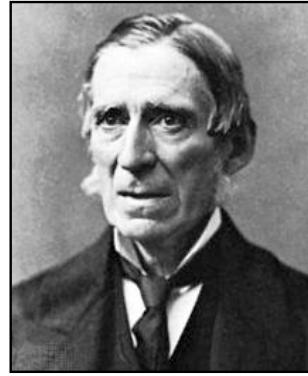


Metastasis

1. The metastatic cascade
3. Pathologic features of metastasis
4. Therapeutic ramifications



Sir James Paget
(1814-1899)

British Surgeon/
Pathologist

Paget's disease of
bone

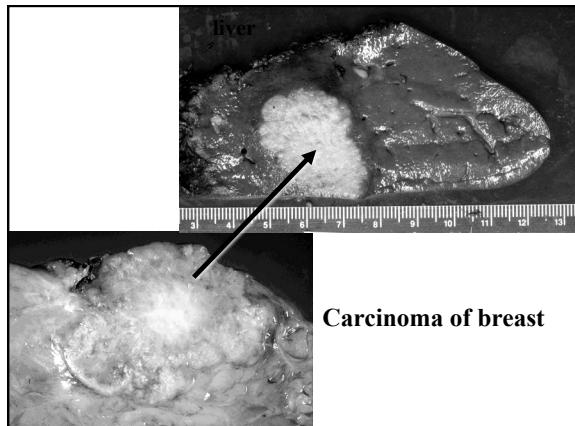
Paget's disease of
the nipple (intraductal Ca breast spreading to skin of nipple)



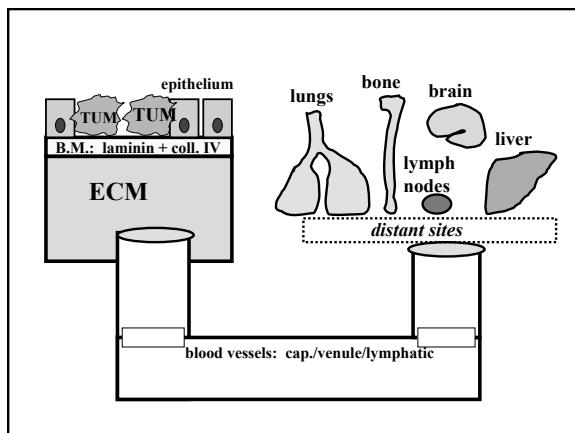
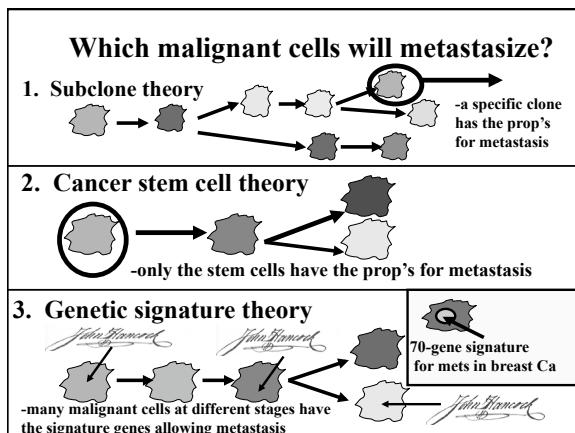
Stephen Paget, MD
(1855-1926)

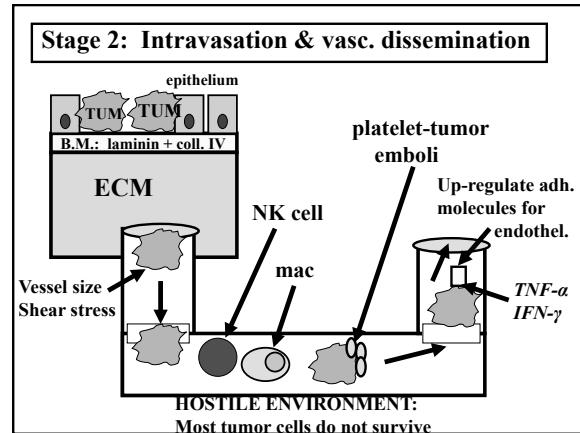
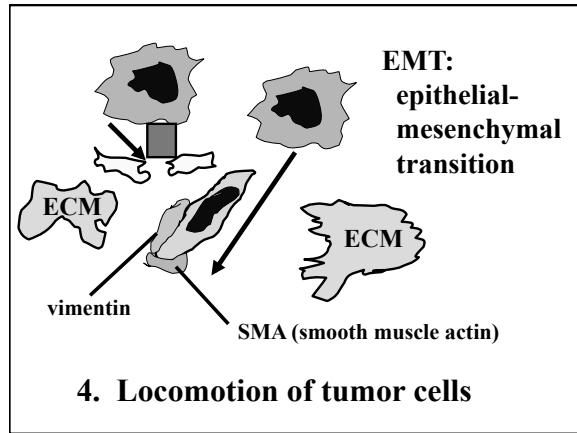
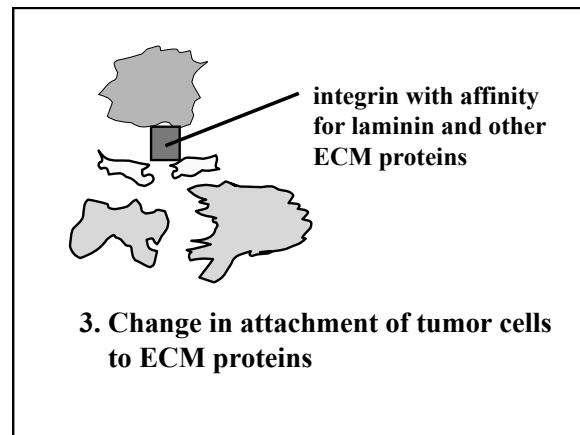
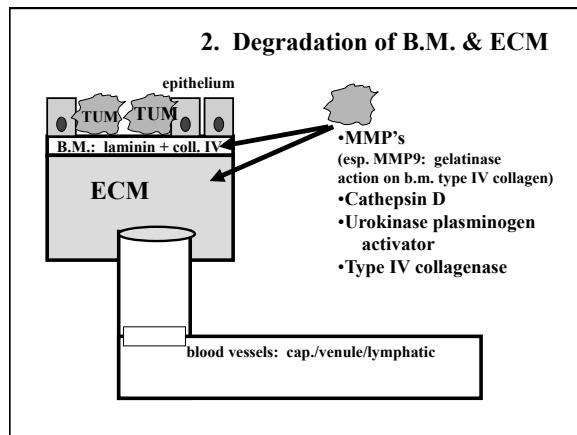
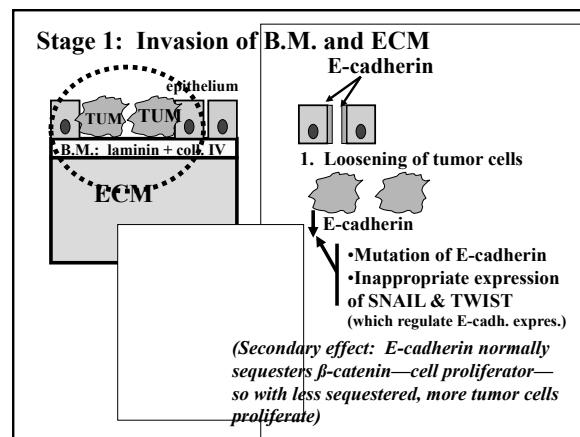
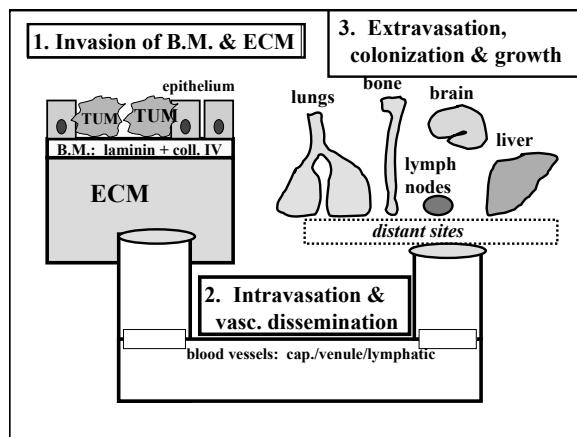
METASTASIS: “Seed and Soil”

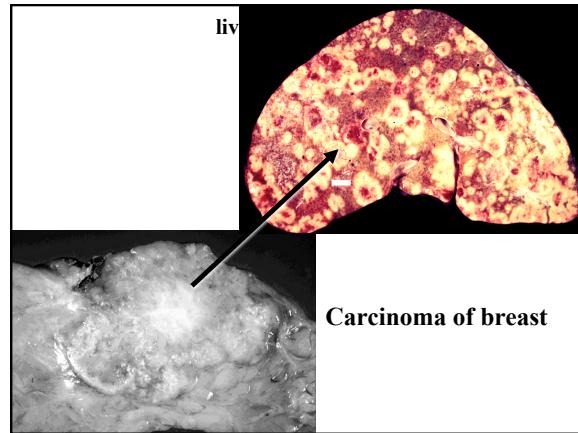
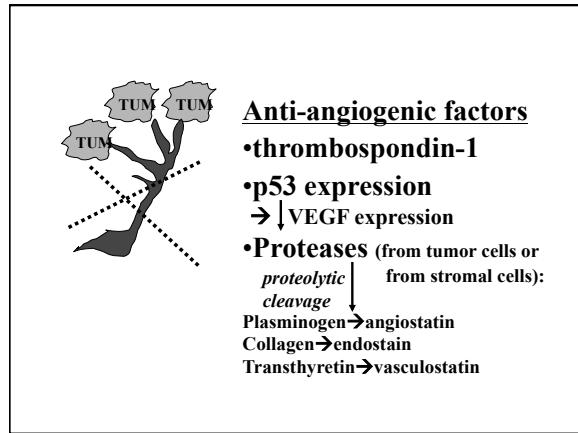
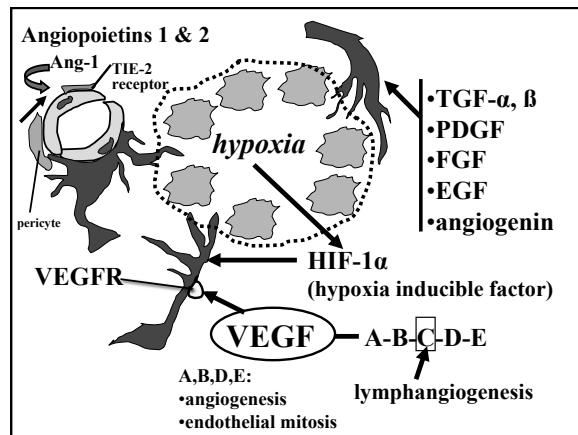
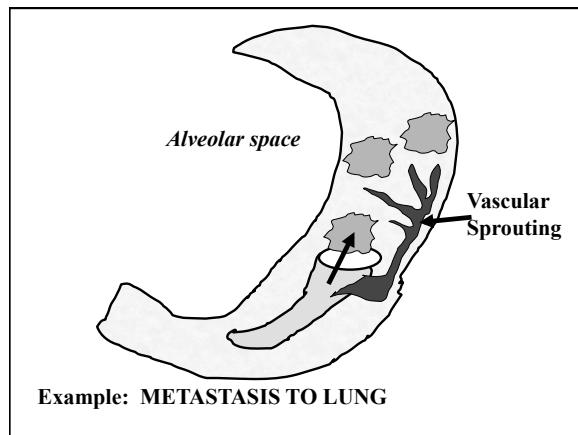
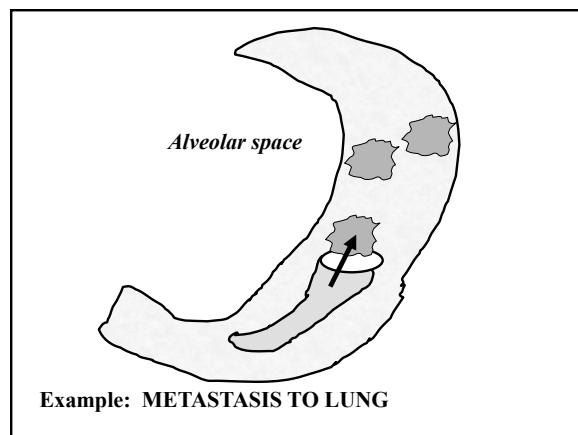
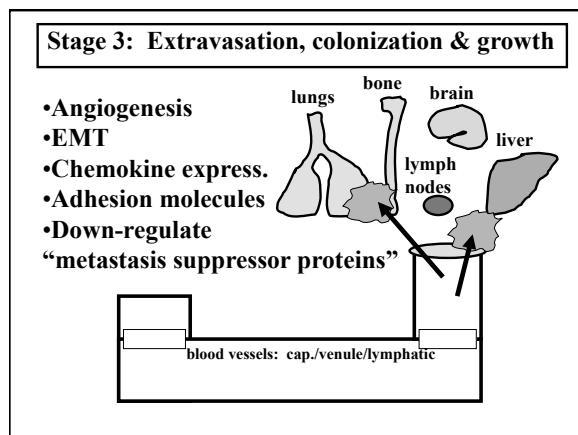
Paget S. The distribution of secondary growths in cancer of the breast.
Lancet 1889; 1: 571-573.
“the best work in pathology of cancer is done by those who...are studying the nature of the seed...”...
“the observations of the properties of the soil may also be useful.”

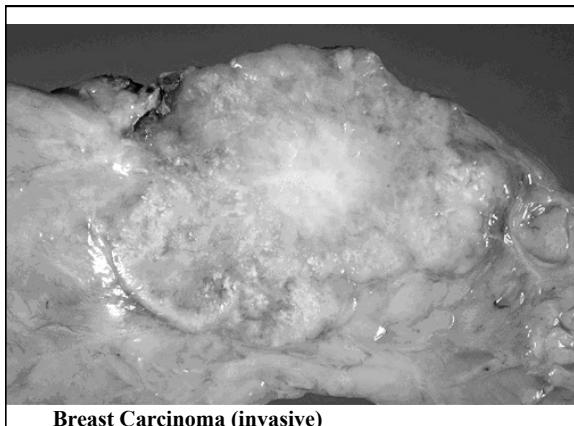
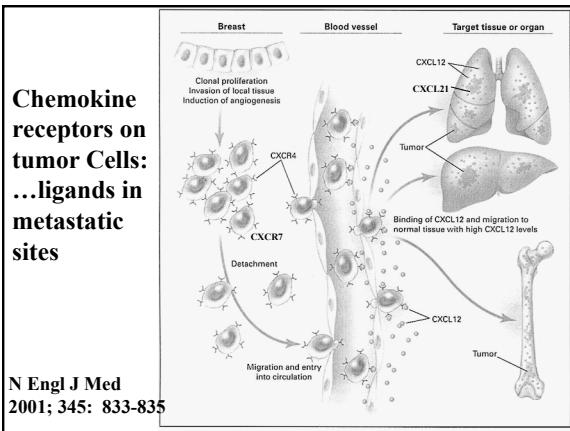
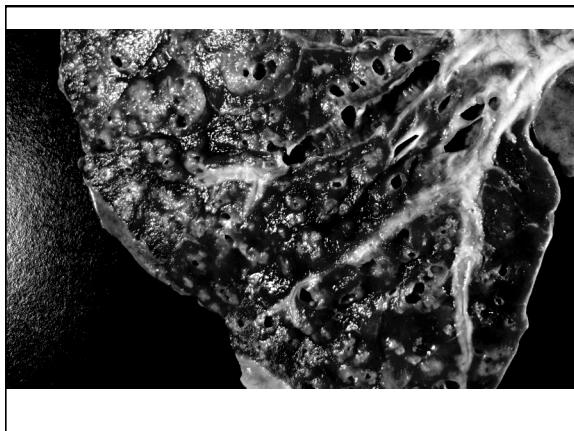


Carcinoma of breast

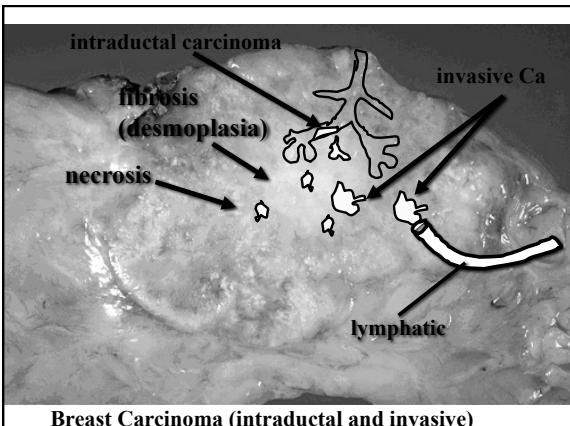




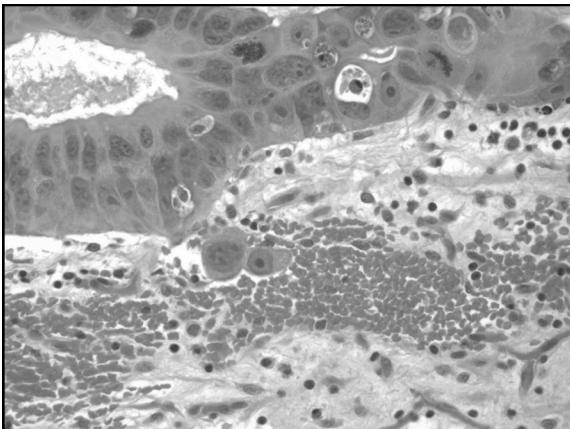
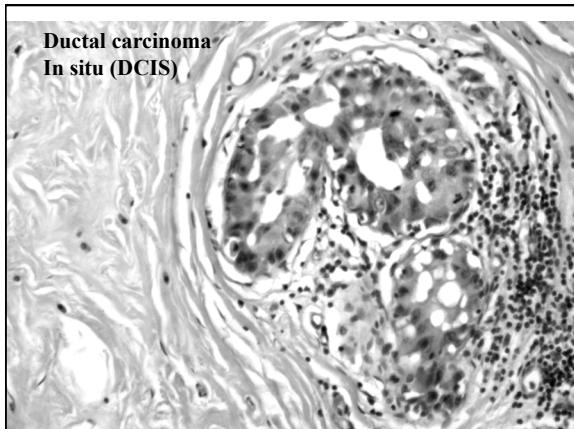


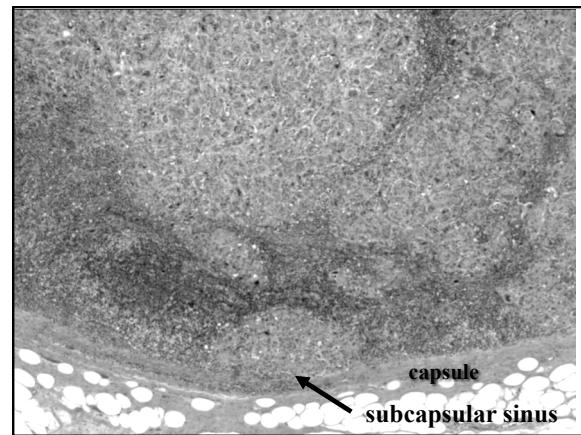
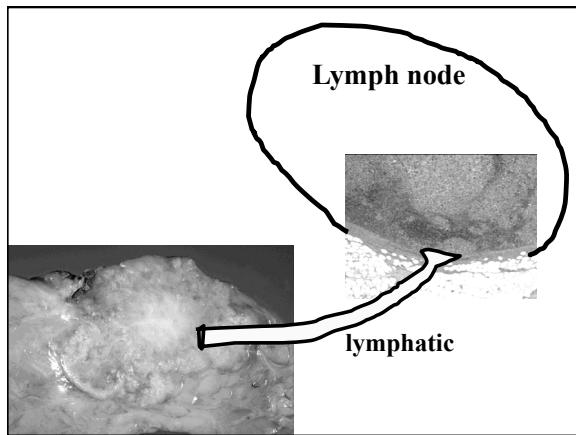
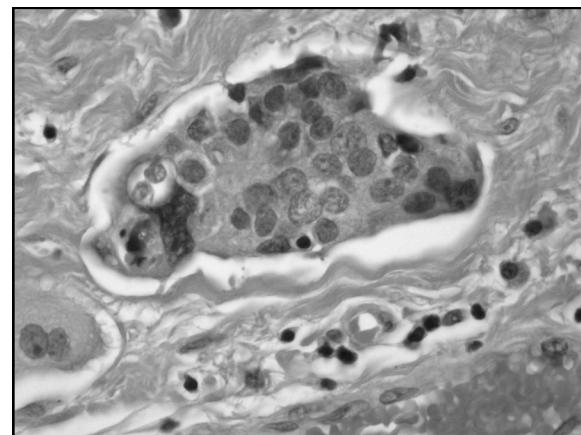
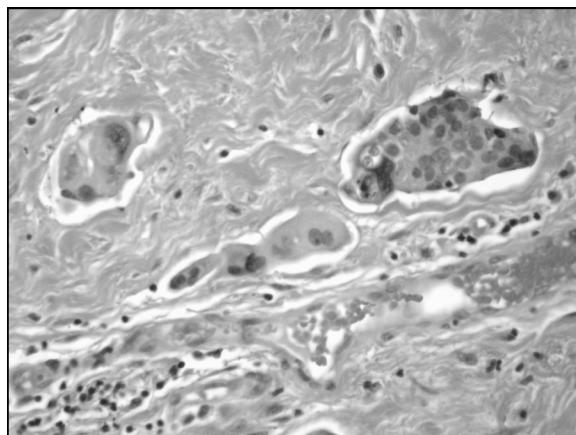
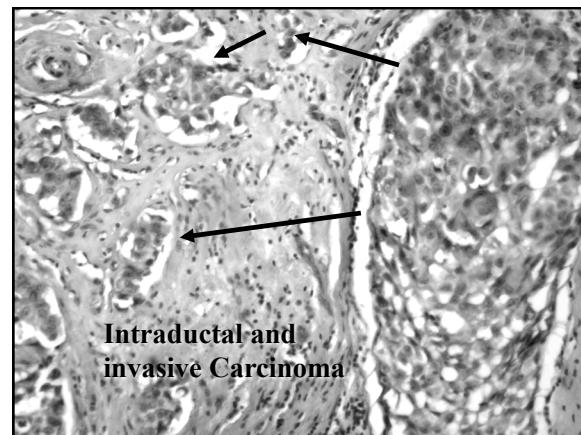
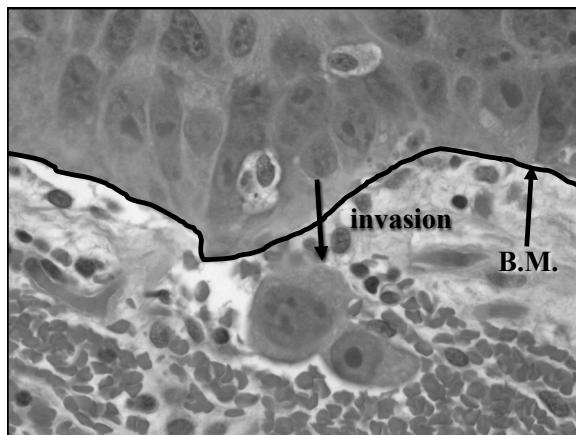


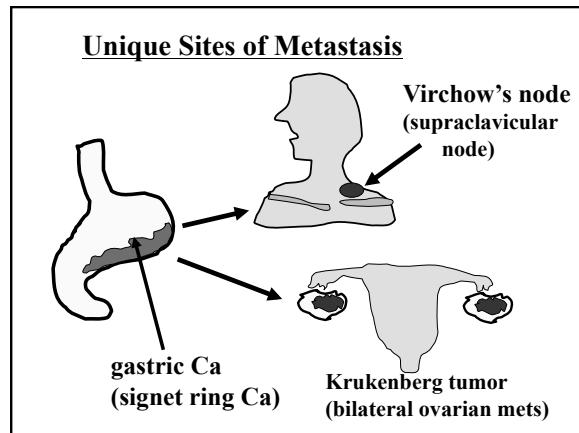
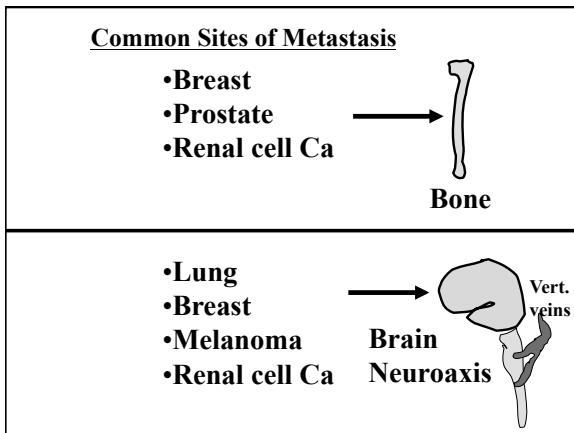
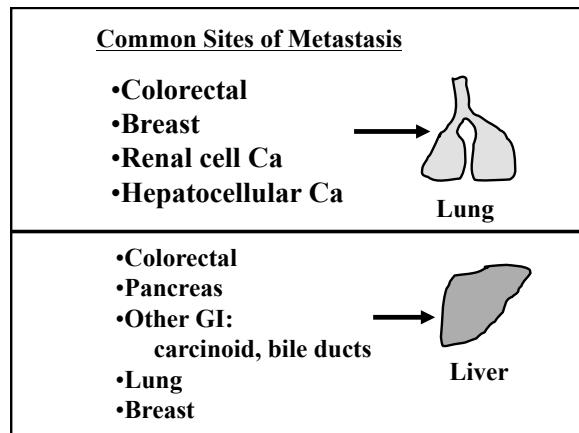
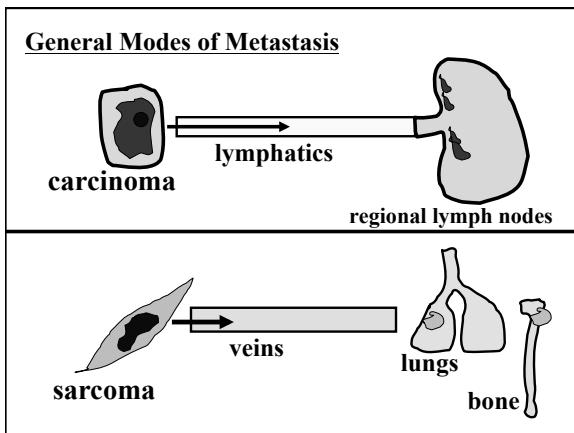
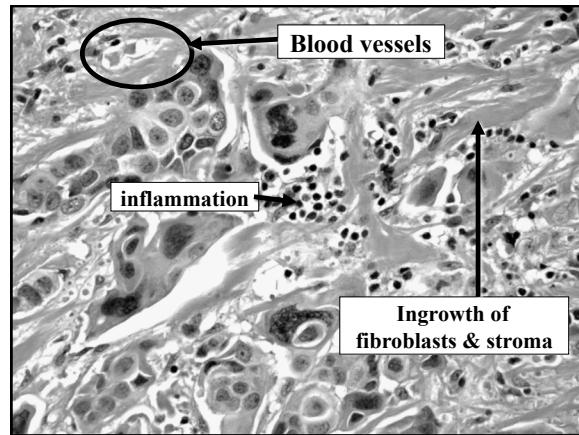
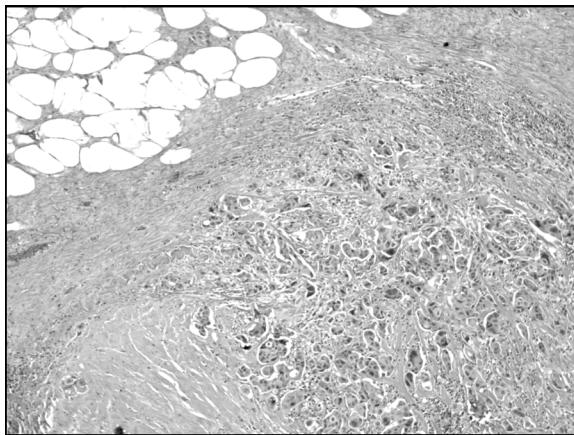
Breast Carcinoma (invasive)



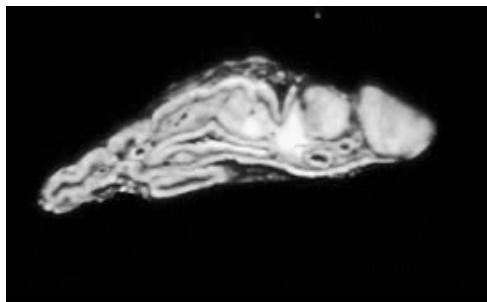
Breast Carcinoma (intraductal and invasive)





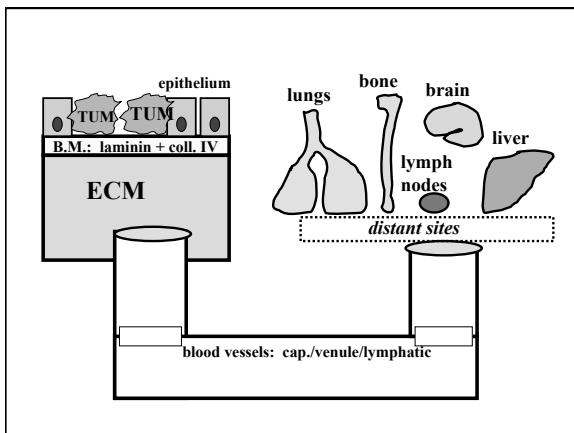


Lung Carcinoma metastasis to Adrenal



Source: University of Alberta, Dep't of Laboratory Medicine & Pathology

Therapeutic Implications



Anti-angiogenic agents		
Agent	Mech. of action	Neoplasm(s)
Bevacizumab	Monoclonal Ab against VEGF	colorectal
Sunitinib	Multi-kinase inhibitor of VEGFR, PDGFR	renal cell; GIST
Sorafenib	Multi-kinase inhibitor: VEGFR, PDGFR, C-kit, Raf	renal cell
Anti-chemokine receptors		