ATP Improves Your Health and Quality of Life

ATP Is Saving the Lives of Cancer Patients and Reducing Their Pain

- A desktop-size, first-of-its-kind, bioreactor grows stem cells (*Aastrom Biosciences*) and:
  - Produces clinically useful quantities of cells from small amounts of bone marrow and umbilical cord blood
  - Is useful for a broad range of cellular therapies (e.g., leukemia, lymphoma, and lung, breast, and colon cancer)
  - Is less invasive, less painful, and less costly.

ATP is making future detection of breast cancer more affordable for routine use

- ATP enabled a next generation, all-digital mammography system (*GE Medical Systems*) that will:
  - Reach increased market penetration faster
  - Produce fast and accurate mammograms at lower cost
  - Make routine use more affordable
  - Lead to improved medical outcomes, including saving lives.

ATP Is Paving the Way for Organ Transplantation (livers, kidneys, and other organs)

- Genetic engineering and animal cloning techniques (Revivicor, formerly *PPL Therapeutics*) are:
  - Accelerating organ transplantation using animal tissue that the body won’t reject
  - Meeting acute need for livers, hearts, and other organs.
ATP Is Accelerating New Drug Discovery

- New automated processes for analyzing how genes and proteins function (Curagen).
- Fully-automated DNA-sequencing technology (GeneTrace).
- New mathematical software is speeding up drug discovery (Molecular Simulations).

ATP Is Improving Orthopedic Care

- A new bioabsorbable polymer (Integra LifeSciences) derived from tyrosine for medical implants:
  o Does not adversely affect tissue or bone, or emit toxic substances when it degrades
  o Is dissolvable and absorbable by the body
  o Eliminates the need for a second surgical removal
  o Is useful for orthopedic, weight-bearing devices such as large surgical screws for repairing cartilage damage by attaching soft tissue to bone in the knee or shoulder
  o May help in preventing some types of degenerative arthritic diseases.