

- Agriculture Canada to further foster the development and use of probiotics for commercialization.

4. HUMAN BIOPHARMACEUTICALS

- development and construction of a fermentation facility ,designed to Good Manufacturing Practice (GMP) standards.

Public expenditure for the period 1988-1989 exceeded Cnd \$11.1 billion. A distribution of these expenditures is shown in Figure 9. World-class collaborative research projects are being carried out at 14 National Centres of Excellence. Biotechnology is a major component in 7 out of those 14 Centres which count with the participation and support of the federal government, over 40 companies, and 35 universities. Areas of research include:

1. Bacterial diseases: molecular strategies for the study and control of bacterial pathogens of humans, fish, and plants
2. Biotechnology for insect pest management
3. Genetic basis of human disease: innovations for health care

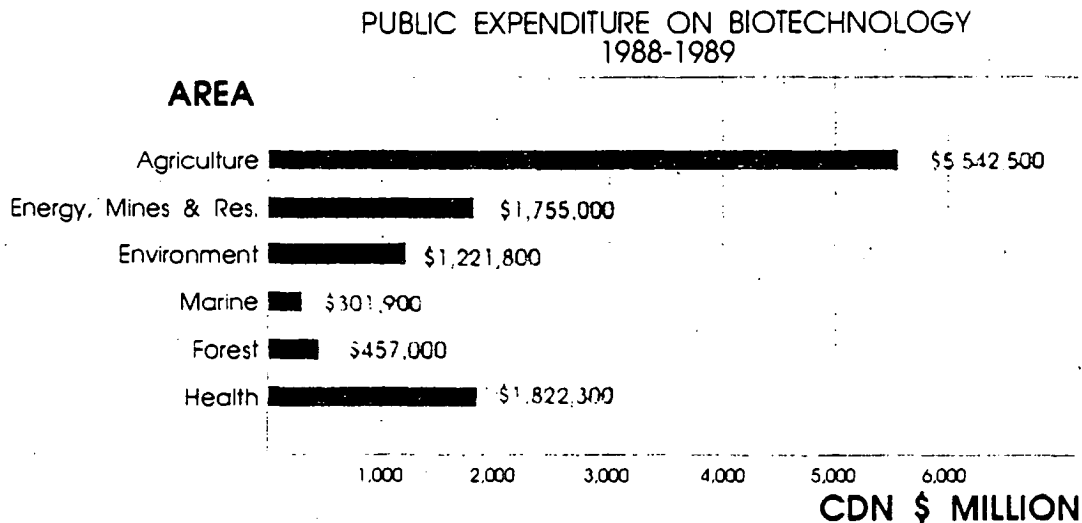


FIGURE 9

4. Neural regeneration functional recovery
5. Protein engineering : 3D structure, function and design
6. Respiratory health network of centres of excellence