

# Advanced Research On Animal Cell Technology

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## Animal Agriculture

### 1. INTRODUCTION

Animal products are a primary source of protein and key nutrients in American diets (Bentley, 2017). In addition, livestock and poultry production account for approximately \$100 billion per year in agricultural cash receipts (USDA-ERS, 2018a). In the United States, most food animal production (meat, fish, milk, eggs) is accomplished through an intensive rearing system that reflects decades of improvements in production efficiencies made possible by research and development. Genetic improvement and adoption of optimized nutritional programs, along with innovations to maintain and improve animal health status, have reduced the costs of production, lowered prices for consumers, decreased resources used (resulting in lower greenhouse gas [GHG] emission intensities per unit of production), and increased the competitiveness of American products internationally, benefiting both local and national economies (Havenstein et al., 2003; Capper et al., 2009; Capper, 2011; Gerber et al., 2011; Tokach et al., 2016). For example, the GHG emissions associated with the production of a glass of milk in the United States in 1977 were one-third of what they were in 1944 (Capper et al., 2009); and today, livestock sources (including enteric fermentation and manure) account for about 3.9 percent of U.S. anthropogenic GHG emissions expressed as carbon dioxide equivalents (EPA, 2016). Over the past 15 years, the U.S. livestock industry has gained greater access to international markets with a growing share of its production destined for foreign markets. In 2016, exports accounted for 23 percent of pork produced, nearly 20 percent for broiler meat, 14 percent for turkey, and 11 percent for beef (see Figure 3-1). This brings in more than \$25 billion annually in export sales (USDA-ERS, 2018b) to the national economy.

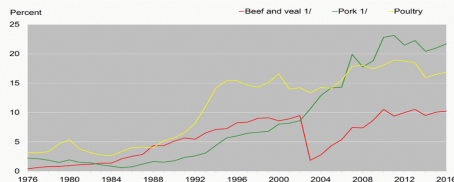


FIGURE 3-1 U.S. meat exports (beef and veal, pork, and poultry) as a share of domestic production from 1976-2018. NOTE: 1/ Carcass-weight equivalent. SOURCE: USDA, Foreign Agricultural Service, Production, Supply, and Distribution database.

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