Simulation Activity: Mars Colony Emergency

The Mars colony faces an unprecedented situation where the AI system, designed to manage the colony's resources and ensure safety, encounters a scenario not covered by its existing programming. Two critical systems are at risk due to unexpected environmental conditions: The colony's agricultural dome, which houses genetically modified crops crucial for future food supply, and a research lab containing irreplaceable alien specimens that could hold the key to understanding life beyond Earth.

The dilemma arises because saving one would unavoidably lead to the loss of the other. The agricultural dome ensures the colony's long-term sustainability and food security, while the research lab has the potential to revolutionize scientific understanding and could lead to breakthroughs in technology, medicine, and the understanding of life in the universe.

Roles
Colony Leader: Responsible for the welfare and future of the colony.
Agricultural Specialist: Advocates for the importance of food security and sustainability.
Chief Scientist: Emphasizes the unique value and potential of the alien specimens.
AI Programmer: Understands the AI's decision-making capabilities and limitations.

Your group will debate how to program AI for such ethical dilemmas, considering various ethical frameworks and the potential for unforeseen circumstances.
Each person presents their argument from the perspective of their role, and the group must reach a consensus on what action to take, justifying their decision based on ethical reasoning.

What did your group decide? How should the AI be programmed?

What is your justification for this decision?

How did you come to this conclusion?