Research & Development in Cellular Agriculture

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Animal ag has been optimized

1957
1978
2005

Zuidhof et al (2014)
...but remains prone to uncontrollable factors
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A portfolio approach to animal products.
CELLULAR AGRICULTURE: The production of agriculture products from cell cultures rather than whole plants or animals.
Cellular agriculture is unsupported field:

- A lack of public funding opportunities
- A lack of research tools
- A lack of experts
Public Funding (Governments):
• 1999 – NASA fish research
• 2005 – Dutch government
• 2013 – NSF SBIR
Public Funding (Non-profits):

• 2004 ongoing – New Harvest
• 2013 – Sergey Brin
• 2016 ongoing – GFI
Cellular agriculture needs public funding:
  • Foundational public research
  • Train talent & cultivate expertise