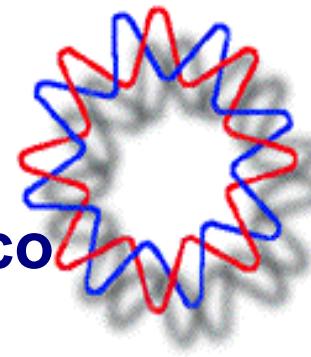




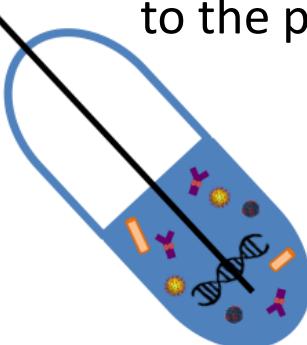
Instituto de Biotecnología Universidad Nacional Autónoma de México



Laura A. Palomares

Health and Pharmaceutical Biotechnology

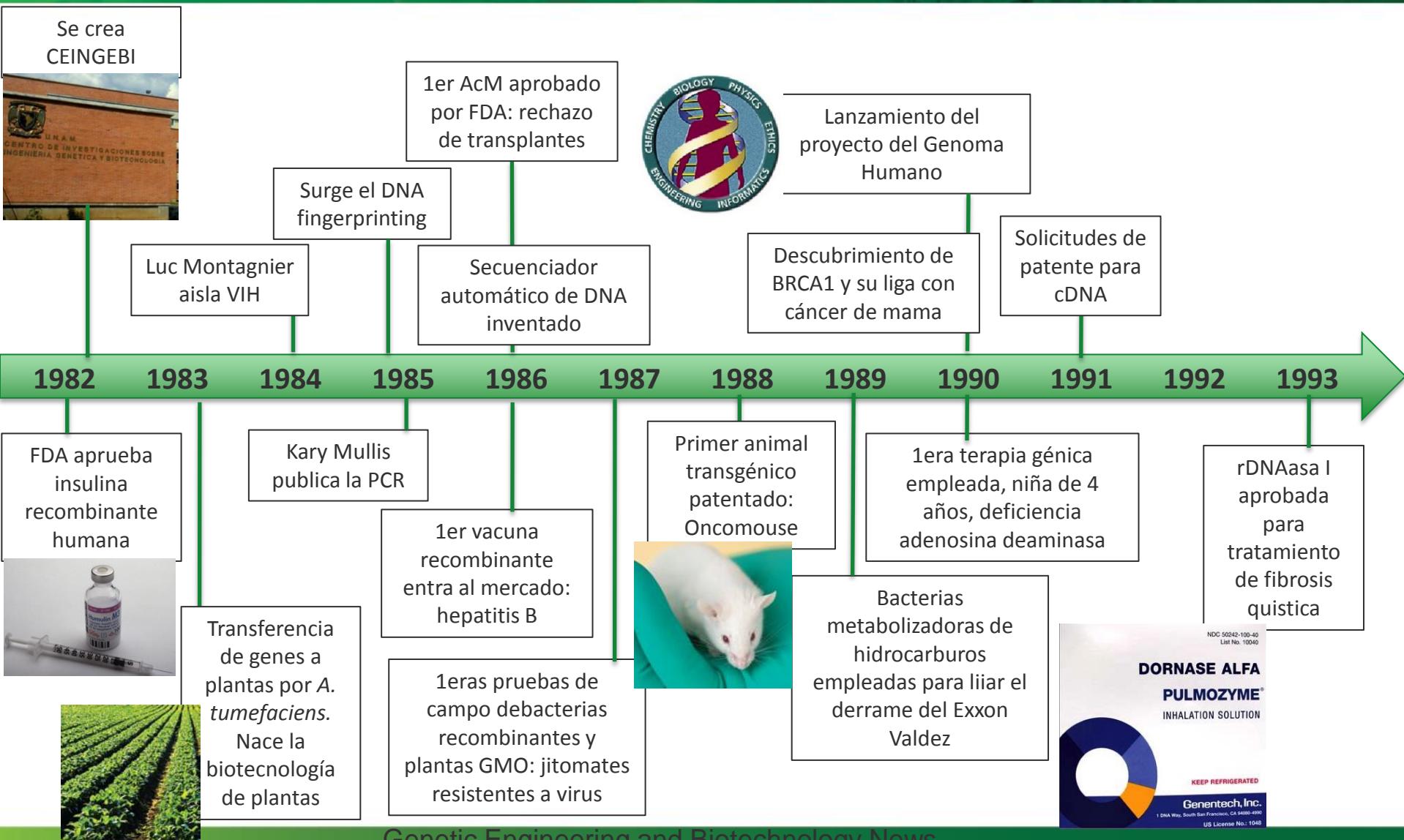
- CHALLENGE: We live in a world where children are dying of preventable and curable disease
- CHALLENGE: We live in a world where health care is a privilege even in the so called developed countries
- CHALLENGE: We live in a world where state of the art drugs are unaffordable to the population



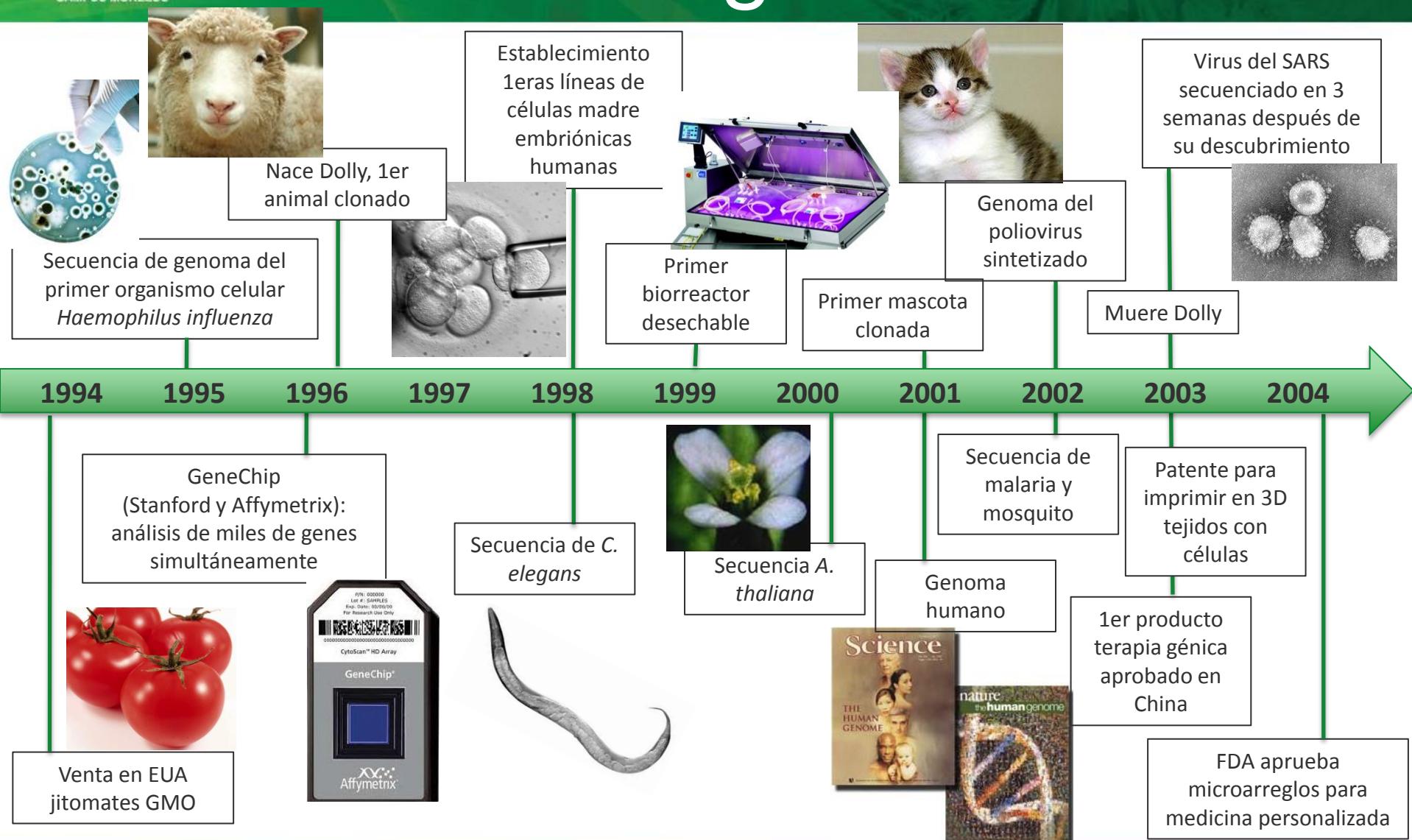
A blue capsule-shaped graphic on the left side of the slide. Inside the capsule, there are various small, colorful icons representing biological molecules, including a DNA double helix, a virus-like particle, and other cellular structures.

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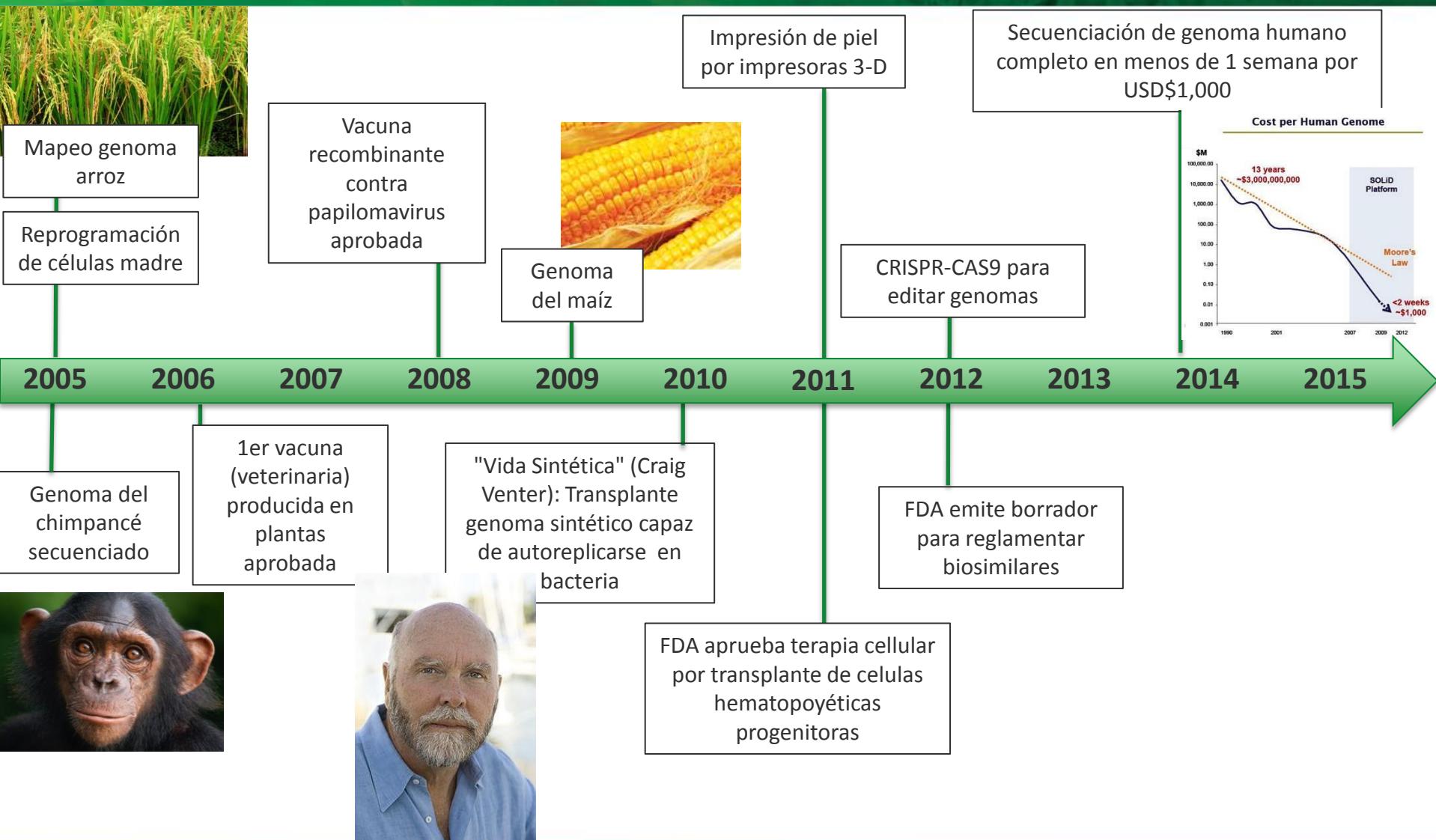
Hitos en Biotecnología



Hitos en Biotecnología



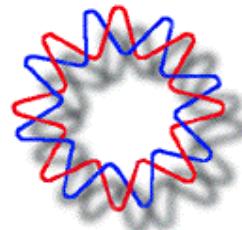
Hitos en Biotecnología



- Change of paradigm technologies result in:
 - Personalized medicine
 - New tools for diagnostics (available to all)
 - More active role of patients
- And more things are coming
 - Plant on a chip for drug manufacture
 - AI for diagnosis and for prescription
 - Organ production (food too)
 - Gene editing (CRISPER/Cas9 technology)



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Menaces and opportunities for addressing SDG

- People as high consumers of drugs/ generating waste
 - Antibiotic/antiviral resistance: Appearance of new resistant strains and disease
- Misinformation: Education is key
- Technology not attending disease relevant in underdeveloped areas
- Changes of way of life: new ailments,
 - Obesity, hearing and eyesight loss, muscle and arthricular pain
 - Depression and other mental health issues



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