



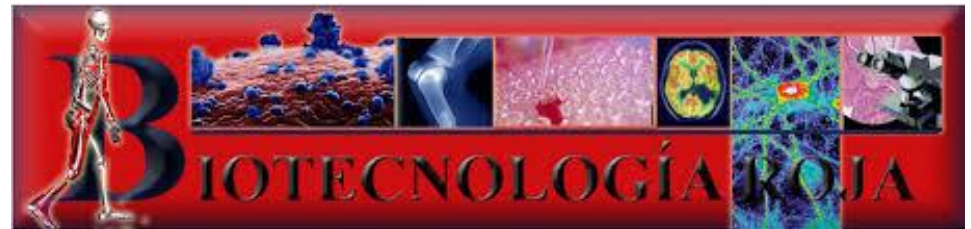
# Que es la biotecnología y la biomedicina

Herramientas para la innovación y el  
desarrollo empresarial

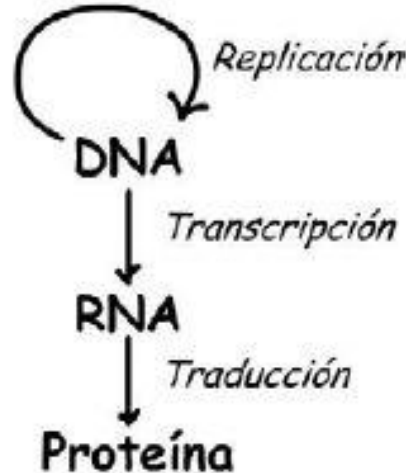
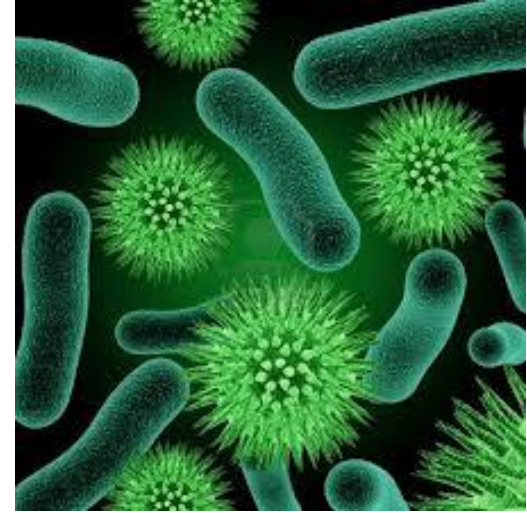
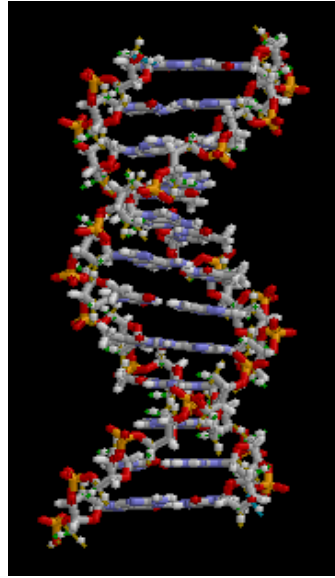
Gabriel Moncalián  
IBBTEC

# BIOTECNOLOGÍA

Toda aplicación tecnológica que utilice sistemas biológicos y organismos vivos o sus derivados para la creación o modificación de productos o procesos para usos específicos.



# ADN → ARN → Proteínas



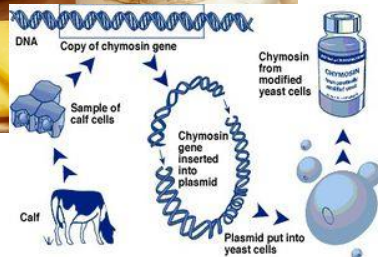
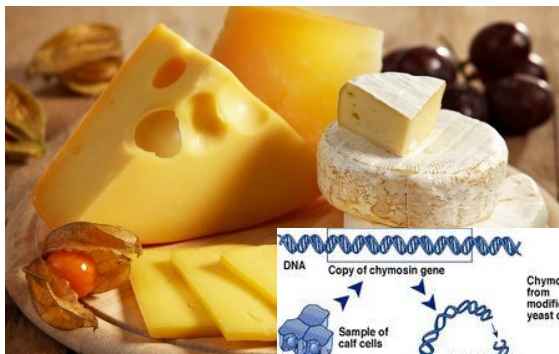
# Productos



**Biocarburantes**



**Enzimas industriales**

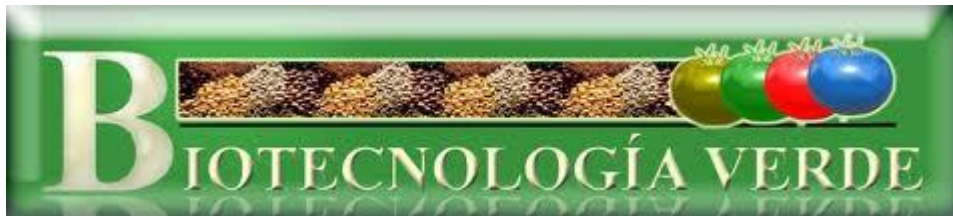


**Quimosina**

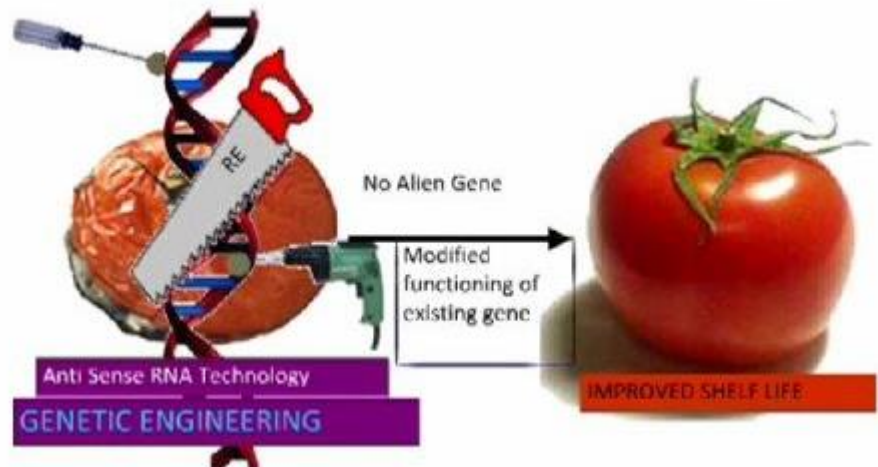


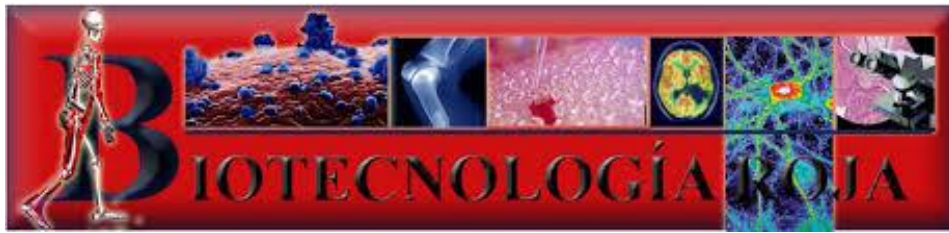
**Omega-3**

# Transgénicos



MONSANTO

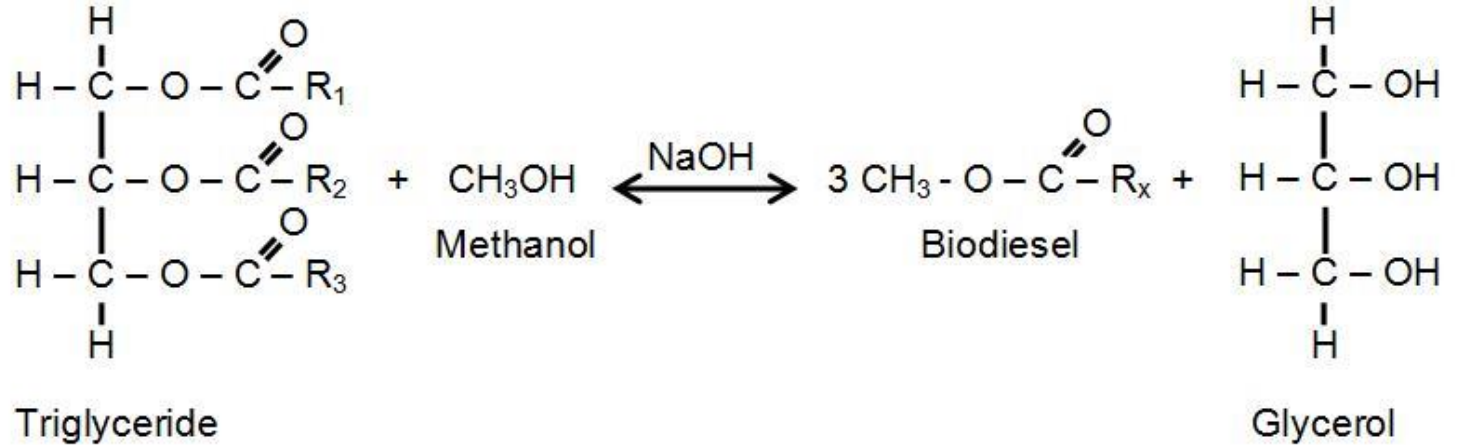




# Fármacos

Rank	Product	Company	Technology	WW Sales (\$m)
1	Avastin	Roche	Monoclonal antibody	9,232
2	Humira	Abbott & Eisai	Monoclonal antibody	9,134
3	Rituxan	Roche	Monoclonal antibody	7,815
4	Enbrel	Wyeth, Amgen & Takeda	Recombinant product	6,583
5	Lantus	Sanofi-Aventis	Recombinant product	6,386
6	Herceptin	Roche	Monoclonal antibody	5,796
7	Crestor	AstraZeneca	Small molecule chemistry	5,739
8	Spiriva	Boehringer Ingelheim	Small molecule chemistry	5,552
9	Remicade	SGP, J&J & Mitsubishi Tanabe	Monoclonal antibody	5,220
10	Gleevec/Glivec	Novartis	Small molecule chemistry	5,136

# Subproductos y residuos



iStock photo-illustration by Stephen Thompson



# Bioremediación





# Herramientas

