



Technology Progress			
	Chemistry & Physics	First Half of 20 <sup>th</sup> Century	
	Engineering, Electronics, Computer and Information Technology	Second Half of 20 <sup>th</sup> Century	
	Biotechnology, Bioprocessing, Biomanufacturing, Genomics, Proteomics and the rest of the "omics"	Dominant Economic Force for the 21 <sup>st</sup> Century	
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*	Pre Pasteur Era	Before 1865
	<ul> <li>Alcoholic beverages, dairy products</li> </ul>	
*	Pasteur Era	1865-1940
	<ul> <li>Ethanol, acetone, glycerol, citric acid</li> </ul>	
*	Antibiotic Era	1940-1960
	<ul> <li>Penicillin, Viral vaccines</li> </ul>	
*	Post Antibiotic Era	1960-1975
	<ul> <li>Amino acids, enzymes</li> </ul>	
*	Era of New Biotechnology	1975-
	<ul> <li>Genetic Engineering</li> </ul>	
	<ul> <li>Systems Biology</li> </ul>	
	<ul> <li>CRISPR Technology- Exciting New Deve</li> </ul>	elopment
	<ul> <li>Synthetic Biology</li> </ul>	
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