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Processes  
**Fermentation  
Processes  
Engineering In  
The Food Industry  
Contemporary  
Food Engineering  
Industry  
Contemporary  
Food  
Engineering**

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~~Webinar 1: 5 steps~~  
~~into the Scale Up of~~  
~~Microbial~~ Industry  
~~Fermentation~~  
~~Processes~~  
~~Bioprocessing Part~~  
~~1: Fermentation~~  
Sandor Katz: The  
Art of Fermentation;  
Science \u0026  
Cooking Public  
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Stoichiometry of

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Processes-I *The  
Science of Kimchi*  
Fermentation -  
Science - Flavourful  
Summer of STEAM  
Fermentation  
Bio-processing  
overview (Upstream  
and downstream  
process) *Breaking  
the Mold: A  
Conversation w/  
Fermentation***

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*Fanatics Sandor  
Katz, Rich Shih,*

*u0026 Jeremy*

*Umansky*

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**Ripe Pu-erh Tea  
Fermentation**

**Process ~~Process of~~  
Fermentation**

***The  
Art of Fermentation  
Sandor Katz***

***Interview The  
Complete Guide to  
Fermenting Every  
Single Vegetable***

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Processes

***Easy Preserved  
Lemons (Just  
Lemons \u0026amp; Salt  
& No Measuring)***

**Lacto-Fermented  
Preserved Lemons**

~~**Make Fermented  
Ginger Carrots - A  
Sweet, Super  
Probiotic Food  
Make a Soda Out of  
Anything With  
Fermentation Brad  
Makes Fermented**~~

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~~Hot Sauce | It's Alive  
| Bon Appétit  
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DUMMIES! SO EASY  
Fermented Garlic  
Preserving Garlic  
with Fermentation  
Brad Makes  
Crunchy, Half-Sour  
Pickles | It's Alive |  
Bon Appétit  
Fermented Foods  
Made Easy with  
Fermentation Expert~~

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~~Sander Katz How To  
Ferment And Make  
Your Own Hot  
Sauce, Easily Batch  
culture~~  
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Food Engineering  
Fermentation -  
Answers to  
Common Questions  
about Fermenting  
Vegetables and the  
Fermentation  
Process *What is  
Fermenting?*

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**The Guide to Lacto-**

*Page 7/79*

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**Fermentation: How  
To Ferment Nearly  
Anything**

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**How to Pickle  
Ginger (The  
Fermentation  
Process for Pickling  
Ginger) Noma Guide  
to Lacto Fermented  
Pickles Lacto  
Fermented  
Blueberries // Noma  
Guide to  
Fermentation *How***

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***Cigar Tobacco Is  
Cured, Fermented,  
1u0026 Aged For By  
Davidoff***

**Fermentation  
Processes**

**Engineering In The  
Whether a company  
is pursuing a  
therapeutic protein,  
intermediate  
chemical or biofuel,  
microbial strain  
development and**

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**Processes**  
**fermentation**  
**Engineering In**  
**process**  
**development**  
**Industry**  
**require engineers to**  
**Contemporary**  
**carry out a large**  
**Food Engineering**  
**number of**  
**experiments in a**  
**manageable format**  
**that reasonably**  
**mimics the process**  
**conditions of larger-**  
**scale operations.**

**Fermentation**

*Page 10/79*

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**Fermentation  
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Engineering in the  
Food Industry ...  
Reflecting these  
advances,  
Fermentation**

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**Engineering In  
The Food Industry**  
explores the state of  
the art of the  
engineering  
technology aspects  
of fermentation  
processes in  
diverse food  
sectors. The book  
describes the  
benefits of  
fermented foods in

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human health in  
Engineering In  
both dairy and non-  
The Food Industry  
dairy products and  
Contemporary  
beverages.  
Food Engineering  
Fermentation  
Processes  
Engineering in the  
Food Industry ...  
Develop a strategy  
for fermentation  
process  
development. This  
MBI is

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**recommended for:**  
Engineering In  
**This module is**  
The Food Industry  
**suitable for**  
Contemporary  
**scientists and**  
Food Engineering  
**engineers who wish**  
**to familiarise**  
**themselves with**  
**fermentation**  
**processes and**  
**those who wish to**  
**build underlying**  
**principles into their**  
**operational**  
**expertise in areas**

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Development •  
Industry  
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Fermentation  
Processes (Online) |  
UCL ...  
Learn fermentation  
principles and  
engineering  
fundamentals of  
growing

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**recombinant  
microorganisms in a  
bioreactor to  
express therapeutic  
proteins. Gain  
fundamental  
understanding of  
the relationship  
between process  
design and product  
quality. Engage in  
hands-on pilot-scale  
laboratory  
experiences that**

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define and explore  
Engineering In  
the critical control ...  
The Food Industry  
Fermentation  
Contemporary  
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Food Engineering  
Fermentation  
scientists and  
engineers in  
biotechnology and  
biopharmaceutical  
companies' or  
similar who are  
involved in process  
transfer to

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**Processes**  
**manufacturers and**  
**also those in**  
**established**  
**fermentation**  
**development**  
**groups wishing to**  
**be kept up to date**  
**with the latest**  
**research in this**  
**area.**

**Rapid Fermentation**  
**Process Design**  
**(Online) | UCL ...**

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**Hongzhang Chen, in  
Engineering In  
Lignocellulose  
Biorefinery Industry  
Engineering, 2015.**

**6.3.3.1 Introduction  
to gas double  
dynamic solid-state  
fermentation  
technology. SSF  
plays a more  
important role in  
industrial  
fermentation  
processes**

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Contemporary  
Food Engineering

**compared to the  
traditional  
submerged  
fermentation (SMF),  
because it resolves  
the problem of solid  
waste disposal.**

**Solid-State  
Fermentation - an  
overview |  
ScienceDirect  
Topics  
A complete**

**reference for  
fermentation  
engineers engaged  
in commercial  
chemical and  
pharmaceutical  
production,  
Fermentation and  
Biochemical  
Engineering  
Handbook  
emphasizes the  
operation,  
development and**

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Processes  
**design of  
manufacturing  
processes that use  
fermentation,  
separation and  
purification  
techniques.  
Contributing  
authors from  
companies such as  
Merck, Eli Lilly,  
Amgen and Bristol-  
Myers Squibb  
highlight the**

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**practical aspects of  
the processes—data  
collection, scale-up  
parameters,  
equipment ...**

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Biochemical  
Engineering  
Handbook ...  
Fermentation –  
Biochemical  
engineering -  
Microbial processes**

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Processes  
**- Industrial  
microbiology -  
Industrial Industry  
biotechnology -  
Innovative  
Fermentation  
Strategies - Batch -  
Fed-batch -  
Continuous -  
Reactor –Bioreactor  
- Heterogeneity -  
Quantitative  
physiology -  
Subpopulation**

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**analysis – Single-  
cell analysis -  
Microbial Industry  
engineering -  
Phenomenological  
model - MFA - FBA –  
Dynamic metabolic  
model - Population  
model - Model  
reduction.**

**Fermentation  
Advances and  
Microbial**

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Processes

**Engineering (EAD8**

**Engineering In**  
...

**The Jilin Fuel Industry**

**Ethanol operation**

**will employ the UK  
company's HT**

**agitators in giant**

**3-million-litre**

**fermentation tanks.**

**The rugged HT**

**agitators, which**

**have shaft lengths**

**up to 15m long, are**

**used to steadily**

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Processes  
concentrate the  
Engineering In  
alcohol in a series  
The Food Industry  
of fermenters.  
Contemporary  
Fermentation fuels  
Food Engineering  
demand | Process  
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Fermentation  
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Food Industry:  
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Ricardo, Pandey,  
Ashok, Larroche,

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The discovery of the  
tools of genetic

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**engineering**  
Engineering In  
**expanded the**  
The Food Industry  
**possibilities for**  
Contemporary  
**products made by**  
Food Engineering  
**fermentation in situ,**  
**and the first**  
**genetically**  
**engineered**  
**fermentation**  
**product was**  
**developed and**  
**commercialized in**  
**1977. The historical**  
**events developed in**

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Processes  
Engineering In  
The Food Industry/  
Contemporary  
Fermentation  
Process:  
Introduction,  
Progress and  
Process ...  
A fermentation  
process requires a  
fermenter for  
successful  
production because

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Processes

it provides the following facilities for the process such as contamination free environment, specific temperature maintenance, maintenance of agitation and aeration, pH control, monitoring Dissolved Oxygen (DO), ports for

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Contemporary  
Food Engineering  
Bioprocessing

**nutrient and reagent  
feeding, ports for  
inoculation and  
Fermentation -  
Bioprocessing**

**In general, there are  
two processes for  
producing  
fermentable  
carbohydrate from  
corn. The first, dry  
milling, is the lowest-  
cost route to a**

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Processes  
**fermentable  
intermediate (7) but  
results in a...**  
Contemporary  
**Metabolic  
engineering of  
microbial  
competitive  
advantage ...  
Industrial  
fermentations  
include both  
upstream (USP) and  
downstream**

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PDF Fermentation

Processes

Engineering In

USP consists of

three main areas: (1)

the producing

organism, (2) the

culture medium, and

(3) the fermentation

process. DSP

includes all

processes following

the fermentation

process. Sign in to

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Topics

This book contains  
eleven chapters  
written by  
international  
experts in the field  
of fermentation. It  
covers all recent

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**aspects on  
fermentation-based  
processes with  
potential  
applications in  
many fields such as  
bio combustible  
production, food  
and beverage  
processing, and  
biomedicine. Read  
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**New Advances on  
Engineering In  
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Biochemical and  
Bioprocess  
Engineering  
Biochemical and  
bioprocess  
engineering is  
concerned with the  
design of processes  
which involve  
biological**

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transformations to  
manufacture a  
range of bio-based  
chemicals,  
biopharmaceuticals  
and biofuels.

~~Webinar 1: 5 steps  
into the Scale-Up of  
Microbial  
Fermentation  
Processes~~

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~~Bioprocessing Part  
1: Fermentation~~

Sandor Katz: The  
Art of Fermentation:  
Science &  
Cooking Public  
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Lecture 6 :  
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Biochemical  
Processes-I *The  
Science of Kimchi  
Fermentation -  
Science - Flavourful*

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***Summer of STEAM  
Fermentation In***

***Bio-processing***

***overview (Upstream  
and downstream  
process)***

***Breaking***

***the Mold: A  
Conversation w/  
Fermentation***

***Fanatics Sandor***

***Katz, Rich Shih,***

***u0026 Jeremy***

***Umansky***

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**Ripe Pu-erh Tea**

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~~Process~~  
~~Process of~~  
~~Fermentation~~ *The*  
*Art of Fermentation*  
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*Interview* *The*  
**Complete Guide to**  
**Fermenting Every**  
**Single Vegetable**  
*Easy Preserved*  
*Lemons (Just*  
*Lemons \u0026amp; Salt*  
*+ No Measuring)*  
**Lacto-Fermented**

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Processes  
Preserved Lemons

~~Make Fermented~~

~~Ginger Carrots - A~~

~~Sweet, Super~~

~~Probiotic Food~~

~~Make a Soda Out of~~

~~Anything With~~

~~Fermentation Brad~~

~~Makes Fermented~~

~~Hot Sauce | It's Alive~~

~~| Bon Appétit~~

~~FERMENTING FOR~~

~~DUMMIES! SO EASY~~

~~Fermented Garlic -~~

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**Preserving Garlic  
with Fermentation  
Brad Makes  
Crunchy, Half-Sour  
Pickles | It's Alive |  
Bon Appétit  
Fermented Foods  
Made Easy with  
Fermentation Expert  
Sandor Katz How To  
Ferment And Make  
Your Own Hot  
Sauce, Easily Batch  
culture**

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Answers to  
Common Questions  
about Fermenting  
Vegetables and the  
Fermentation  
Process *What is  
Fermenting?***

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**The Guide to Lacto-  
Fermentation: How  
To Ferment Nearly  
Anything**

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**How to Pickle  
Ginger (The**

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**Fermentation**

**Process for Pickling**

**Ginger) Noma Guide**

**to Lacto Fermented**

**Pickles Lacto**

**Fermented**

**Blueberries // Noma**

**Guide to**

**Fermentation How**

**Cigar Tobacco Is**

**Cured, Fermented,**

**and Aged For By**

**Davidoff**

**Fermentation**

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**Engineering In The**

**Whether a company**

**is pursuing a**

**therapeutic protein,  
intermediate**

**chemical or biofuel,  
microbial strain**

**development and  
fermentation**

**process**

**development**

**require engineers to**

**carry out a large**

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number of  
experiments in a  
manageable format  
that reasonably  
mimics the process  
conditions of larger-  
scale operations.

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advances,  
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Food Industry  
explores the state of  
the art of the

**engineering  
technology aspects  
of fermentation  
processes in  
diverse food  
sectors. The book  
describes the  
benefits of  
fermented foods in  
human health in  
both dairy and non-  
dairy products and  
beverages.**

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Engineering In  
Engineering in the  
Food Industry ...  
Develop a strategy  
for fermentation  
process  
development. This  
MBI is  
recommended for:  
This module is  
suitable for  
scientists and  
engineers who wish**

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to familiarise  
Engineering In  
themselves with  
The Food Industry  
fermentation  
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processes and  
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those who wish to  
build underlying  
principles into their  
operational  
expertise in areas  
of: • Research •  
Process  
Development •  
Manufacturing

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engineering  
fundamentals of  
growing  
recombinant  
microorganisms in a  
bioreactor to  
express therapeutic  
proteins. Gain

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**fundamental  
understanding of  
the relationship  
between process  
design and product  
quality. Engage in  
hands-on pilot-scale  
laboratory  
experiences that  
define and explore  
the critical control ...**

**Fermentation  
Engineering - BTEC**

*Page 56/79*

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**Fermentation  
scientists and  
engineers in  
biotechnology and  
biopharmaceutical  
companies' or  
similar who are  
involved in process  
transfer to  
manufacturers and  
also those in  
established  
fermentation  
development**

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**Processes**  
**groups wishing to**  
**Engineering In**  
**be kept up to date**  
**with the latest Industry**  
**research in this**  
**Contemporary**  
**area. Food Engineering**

**Rapid Fermentation**  
**Process Design**  
**(Online) | UCL ...**  
**Hongzhang Chen, in**  
**Lignocellulose**  
**Biorefinery**  
**Engineering, 2015.**  
**6.3.3.1 Introduction**

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Contemporary  
Food Engineering

**to gas double  
dynamic solid-state  
fermentation  
technology. SSF  
plays a more  
important role in  
industrial  
fermentation  
processes  
compared to the  
traditional  
submerged  
fermentation (SMF),  
because it resolves**

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the problem of solid  
waste disposal!  
The Food Industry  
Solid-State  
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A complete  
reference for  
fermentation  
engineers engaged  
in commercial  
chemical and

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production,  
Fermentation and  
Biochemical  
Engineering  
Handbook**  
emphasizes the  
operation,  
development and  
design of  
manufacturing  
processes that use  
fermentation,  
separation and

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purification  
Engineering In  
techniques.  
Contributing Industry  
authors from  
companies such as  
Merck, Eli Lilly,  
Amgen and Bristol-  
Myers Squibb  
highlight the  
practical aspects of  
the processes—data  
collection, scale-up  
parameters,  
equipment ...

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Biochemical Industry  
Engineering  
Handbook ...  
Fermentation –  
Biochemical  
engineering -  
Microbial processes  
- Industrial  
microbiology -  
Industrial  
biotechnology -  
Innovative

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**Fermentation  
Strategies - Batch -  
Fed-batch - Industry  
Continuous -  
Reactor – Bioreactor  
- Heterogeneity -  
Quantitative  
physiology -  
Subpopulation  
analysis – Single-  
cell analysis -  
Microbial  
engineering -  
Phenomenological**

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**model - MFA - FBA –  
Dynamic metabolic  
model - Population  
model - Model  
reduction.**

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Advances and  
Microbial  
Engineering (EAD8**

...

**The Jilin Fuel  
Ethanol operation  
will employ the UK**

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company's HT  
Engineering In  
agitators in giant  
The  
3-million-litre industry  
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fermentation tanks.  
Food Engineering  
The rugged HT  
agitators, which  
have shaft lengths  
up to 15m long, are  
used to steadily  
concentrate the  
alcohol in a series  
of fermenters.

**Fermentation fuels**

*Page 66/79*

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demand | Process  
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Fermentation Industry  
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The discovery of the  
tools of genetic  
engineering  
expanded the  
possibilities for  
products made by  
fermentation in situ,

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and the first  
genetically  
engineered  
fermentation  
product was  
developed and  
commercialized in  
1977. The historical  
events developed in  
the progress of  
fermentations are  
précised in table 2.1.**

**Fermentation**

*Page 70/79*

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Processes  
**Process:**  
Introduction,  
Progress and  
Process ...

**A fermentation process requires a fermenter for successful production because it provides the following facilities for the process such as contamination free environment,**

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Processes  
specific  
Engineering In  
temperature  
maintenance,  
maintenance of  
Contemporary  
agitation and  
Food Engineering  
aeration, pH control,  
monitoring  
Dissolved Oxygen  
(DO), ports for  
nutrient and reagent  
feeding, ports for  
inoculation and

**Fermentation -**

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The Food Industry

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Food Engineering

## **Bioprocessing**

**In general, there are two processes for producing fermentable carbohydrate from corn. The first, dry milling, is the lowest-cost route to a fermentable intermediate (7) but results in a...**

**Metabolic**

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**engineering of  
microbial  
competitive  
advantage...  
Industrial  
fermentations  
include both  
upstream (USP) and  
downstream  
processing (DSP)  
stages (Fig. 2.1).  
USP consists of  
three main areas: (1)  
the producing**

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organism, (2) the  
culture medium, and  
(3) the fermentation  
process. DSP  
includes all  
processes following  
the fermentation  
process. Sign in to  
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Industrial  
Fermentation - an  
overview |

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