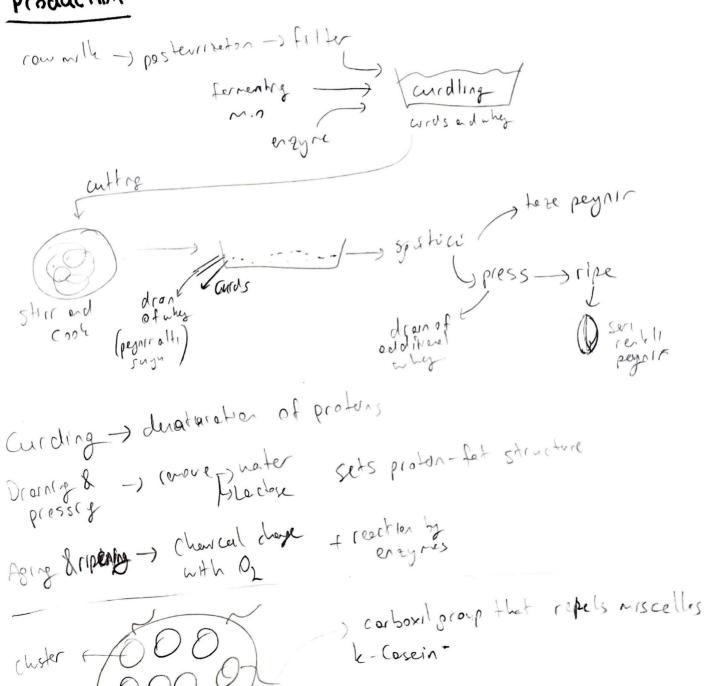
### Cheese

### week 8

-Mills + sun -> sour -When sour mile was drained and salted -> less perisheble then yogurt

- curdling is better when it occurs in online's stomach.

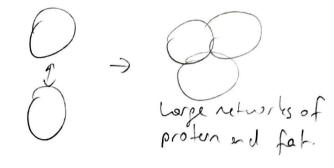
### Production



## Acid Mediated Curd Formation

- Discupt cosein miscilles to form milk curd by change pH & (lung gree or lactic actd by herteria ferrentation)

-pH, ruscille repulsion



## Acid set Cheese do not melt

-acid dissolves calcium ghe that holds casem proteins together

m miscilles.

when and and is heated, first thing to behole loose is mater not proton not proton to large together - contine heat, water off, but w.s. calcium to large together

not gig to have melting action

you could use backers ferrenteben (Indirect acid)

- lackic ocid, pHb

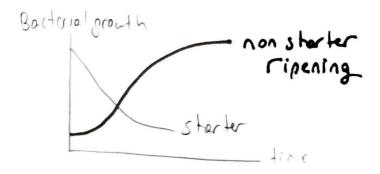
to not my formation of curd Ly but also taste and arona

2 types of beeture

131 storter

42 repening -Firsting backers -> changes depending on the type

My temp /



## Enzyme mediated Curd Formation

-remet -jenzim

Gaevis getiren begventern midleinde ver.

Soparate mile into solid aids of chase no ling

- Hayvanin midesinde gapilise (satter-spenie) de he het li slager

### Can we make cheese/yogurt from UHT

-Milk for cheese temp 72°C ~ 155.

Scosen and whys.

Lihigh temp -> discript of whey -> adsorbed (tutural)

be prevented

)add Ca+2 to reduce this effect.

MIT can be used to make grount

## Processed Cheese

theese heat fat & protein = ) terrible

ve need to contain fet in protein matrix.

east -) & emulsifying copability of protein

-melting solt (either turn) is used. Good analsifier but they restore the ability of milk proteins very efficiently Quark -Acid cogulated wear get - Not joghart, cheese - Not only casen but also why , more proten White Cheese - Toste, odor ) plent ornel odef. technologies -cornet added -> pressed -> brined (selenure) Ezre pegnisi, edisse, us, fa, longe sheep, good, com steep con steep goat Hallouini (Hellin) - high melting pont - ) fried or grilled Lusually annt is added. Spreservative +flavor -curd is boiled in why 30-45 mm 30°C ) corres from fresh and is heated before being shaped and placed. - Closec ino our holes.

4

#### Kashkaval - Hard, yellow - Curd left for Demutation 6 months then boiled at 70°C - To know desired acidity is achieved to sheet enlergment - > too much from . -> torn not eneigh form. - not en lege Usicia Celerel pH -35-5.5 aurd 48 and below-) bolly Lesil MK probles Sut Mihalia - Balikesir - Stored in brine (sinier to white cheese) Gerbez after boding the cord, put into bostat for shoping Tulum ripered in gootstin cosing (tulum) - me ze -sute starter elle. 30de sonra curd & whey - dran the cird, at the wid - ) were why to drain -curd'u torbaya koy-p belle. - table helps leay, of will be sole feele whey to drain Lor -Rich in proten Scito hay not, sere hoy

Ice Cream Sorbet -> megve le gepler dondurme - mille, suger, sometimes eggs. , stabilities (1941) -air > %30-50

-air > %30-50

- prevents overly sweet flavor

- timel for flavor to released - flavor

lasts

lasts

lasts -High in fat (%10) Jones from milk Limproves density, smoothness - Ice crystals are formed when water in receion stats to freek. too by crystals -) grany - To avoid sondy ice creen, ice crystels should be small. - Some stabilizers absorbs water in ice creen -> less ice crystals - More solids -> less free mater -> less ice crystels too few solids -> sondy ice cream Fir, ice crystals, fat 3 laboles, liquid syrup, stabilizers (~0,2%)

Limportent, erimmo dondurmay, tekrer dondurup yesen sizel olmas.

Likutuyu alip eritirsen volument

6

whipped cream -> kren sonti plain creen - sode brene sucetness Plan cream > whipped creen havayor have ver (cold text) Structure control the rate at which flavor molecules are released into the mouth Loger structure (ice creen) - loger flower Overrun -The amount of our in ice creen. - Congressed nex 50% -> 50% our 50% ice com = Better brends have higher dursity - More our -> quicker melting

fresence of our in icercan - foom taste good because of fet (from milk)

-Proprium ice creens (20%) fat.

Reduced-fast occurren does not teste good as real.

Each fat droplet is coated with milk proteins, prevents + droplets from interesting with each other.

emulsi Frer. I good in nik. But not good in receirem Stebilize enulsion. I droplest should merge to trop air.

Another enulsifier is added to allow fet to coalesce (legrasne?) Speplere milk protons recithor (egg yolk) bfat globullermin birlikte durnosini septiyor. - our is trapped Stabilizers - Make texture creamy. -Prevent large crytels -> small ree crystels melts slowly becomes fats surrounds small crystals - Proteins (gelein) and egg whites. -w.o. stabilizers ice orean will look like milkshake. (ce cream deesnot preeze at 0°C. - for every note of solute per 1 kg nater -> -1.86°C. 1 mole of sugar in Alguater - ) -1.86°C freeze temp How is ice-cream made

- Mille, creen, sugar ore heated until sugar dissolved. - flavorings are addled. round goes to the machine,

stirred until thick /softly cream b) oir is added -> volume 1 inflated volume = overun

| Hardening  |
|--|
| -Difficult to fully freeze while churing (calleler - 1/3 of water is           |
| 13 not frozen.   |
| not enough to scoop/stay in ice creen come.                                    |
| - Jeni-frozen ice creen is packed into containers                              |
| hordening - sin freezes  |
| creany texture   |
| - capid chill + chunning -> water to minuscle crystals.                        |
| - constant churning prevents water to attrach each other.  Screeny menth feel. |
| When ru cream melts sismall rues melt  |
| Greeze again - larger erystels.  |
| errystals?   |
| Thus, ice cream stores in small containers with little to                      |
| allows take only the amount of scecrean you need                               |
| allows take only the amount of scecrean you need                               |
|  |

# Salep

-Bir bitternin lester.

- Selep flour.

Ice creem 10% mill fat (at least)

Geleto

-less cream, more mille

- lover fet then Ice crem.

Soft serve

-less mille fet

-priore arr.

-fluffy -McDonelds dendings,

Frozen Custerd

- thicker

- A+ least 1.4% egg yolk

She bet

Flourred with fruit

-Mille fet 1-2%

sneeter then ice creen

for het

on doising)

nzen jurus