week 3 wheat Bread -> triticum aestivum Pasta - triticum durum, also emolina (irmite) Dig hobugu > Bran, fiber oran yükset.
tom bugday etmefinde var Kahvereyini veriyor. Endosperm -> Karbonhidrati güketk.en ash bu bulunuyor. Germ -> protein guilesele Cereal - Hahil - Trificeae clar - wheat (bujday)

- Trificeae clar - wheat (bujday) - Earliest acestors ~75,000 years 90. - Einhorn -> first wheat gathered and cultivated - Armenia, Georgia, Turley - Derly distribution - No prohistoric records of in India, china, Africa -20 aminoacid. -> 11 we can synthesize
g we cant -> essential Ax - Proteins made up with 100-1000 ominoacids. Critical roles
structure function regulation Amino acids -AMINE, NH2 Junusta besleyrer bre gida auntis essential protenteri in oranda

bulundurayor.

(1)

Sluter - Dough (honor)u alguran ger halon løstik gibi hisma gluten -Most popular protun. - Gives Wheat dough liveliness, rate raised breads devilyor (Chinese -) muste of Flour) Wheat Flavors include 2 protein -> Glutenin/gliadin Lygheter, con trop our (boilloon) Gluten network - trops afficalsed bread Bread Flar Cale flour -most protein - least arount of protein -12-14% -6-8% washed both of them to get rid of storch highly resilient weak gluten
Cen sip apert strech - we not just enough ghter for structure - Jone people has ceilec(adyale) diserse. Connot consume wheat, herley, (ye --) allergic reactions, -> gluter free product gluter free products => malte(misir) >> flours

Lichickpea (nohut)

Nopublished evidence of gluter free supports weight loss.

people benefit from slutenfree diet.

- And insenter lished by hismanin alergist oldupe 1411 digerter!

de bunua pererti olduguan dissiniper.

- istotistiklerde gluten intolerence; olen insenterin artnis olnesi bir hastoliğin hizla yayıldığını gösterniyer. Estiden tetrologi ile bir hastoliğin bulanıyordur. Artik tespit etnek de,ha lenley. bir hastoliği bulanıyordur. Artik tespit etnek - Celiac hastaliër stræden da gluterden rahatsiz ole insenter revout.

Bread

- Mix flour, water jugast, salt - Knead (yogurnak) the mixture to develop shite network. Ezer and yogurursun gluta networks praalesin ve elenek hebermer.

- Give yeast thre to produce CO2, All dough with gas cells.

- Bake

Flour

Broad flour - high protein wheats -> strong gluten - well raised All purpose flour - lower protein - denser looves - cake-like Wholewest flour - heabverenge obyor. Byjdeyin he high de oldigu water -Asith su -) wealers gluter returne -) [- Alkaline nater -> strengthen -> [] Proportion of nater -> less -> denser leaf high protein Hours absorbs more water -not just halaced histe. It improves flowers. - where see salt (calcium and represent) additional strength in gluter
- unrefined see salt (calcium and represent) -in soundough (elisi elimete) helps limit protein digestry activity of bacteria - denage to the gluter I Instart yeast -> learisine direct elile limiter Yeast active dry yeast >1 ste, soah it with mater fresh yeast -) en sys tade bu veryor - Forresegora his badicant icin dale social places porcess , yes urt elss obret regest deviller. Kinde cot feele esset yeen hatters

elss obret regest deviller.

not.

teporty the Dough Knead - not too much - , gluten network may corrupt (1819) - formertetion. Uyour ist re rende betiled.

onneterin yourt geperten site sites dire.

Uyour sicollitte belieferter oregip contrabilism dire. Preparing the Bread Packaging -> higher shelf life -> morstire belovce by env. Boliz (00/13 Storch Gluter -> %10 -together with mater -) half of the volume of dough nterperedrote gluten retwork -) tenderte (yumusentra) In cake > gluten is too disposed in large amount of naturend sugar. -during belong of bread acates, storch absorbs mater, smell Fren hat medde, have trabercillaring bigurestal eigelliger. Su raerde This is colled generation. Ouding geperteen kivani ertip hasikla heristicishen zorlanger. Blu gizder. any lope chin

Nigasta su alip böysya ve sisiyar.

Sogndupu zenen bu islem tersine densjør. Kine aldigt su disina hikiyor. Dolepta Sekletila merciner corkosinin su ve disina hikiyor. Dolepta Sekletila merciner corkosinin su ve diger hisma agrismosi bu gotteler.

Retrogradation -> nisasterin rundetir suyu disoriya salmesi reversable by heating. three boyatladiji zeman isitinca yerilebilir olrasi da bu justden.

Staling

- vagariera i -thregi disagni partietlegip anyu disariya harmese, bile heyarthyor! - Bazatlerak -threet isitiona storch tehrer gelate olinger ve gentlebiliger

-Elongi buzdolabinda soullersen 1 gende boyertler.

Oda siceleliginda 6 gende.

1 Buzlukta Saklal

Fibers

Soluble > dissolves in mater lowers blood colestrol lovers glurose lands slows digestion Gobsarbig nutrients? - halintzegisettati suda ver Ensoluble -) not dissolves in mater -Increase biovement. -decreases cardiovoscular risk -kabizliji soler - bogirsok herelætini hizlendirdigi (constipation) un zererti meddeler segirsent ta data are durur, data of lesten

Browning Reactions
- Non enzymatic) coronelization - Non enzymatic) mailled browning
- (herrical reaction -) brown color. - charge in color not causes flower, but we can evaluate flower. - charge in color not causes flower, but we can evaluate flower. - by color the - 100-1000 large largesed on alleger. Consider color /flower.
Protein + Heat > you winter Sugar Sugar Sucose + many of amino heat mailland mailland reaction (Fructose olso) but Harrist ghosse Groved in reat/stack /slycege C=0 begin olayor, Naton large bag grpp
Scherler acute ohnce C=0 begindinger, Natombergle begypp Scherler acute ohnce C=0 begindinger, Natombergle begypp - Popacarin istine yumurte sirince yyumurtedeli protein + popaça - Popacarin istine yumurte sirince yapıyar. - Popacarin istine yumurte sirin maillard yapıyar.

Kahuerin fozla havrulner da bu realizion. Daha aci olugor, dala fer la yer cron olduju icin How to increase reaction? -Dry food. Water inhibits reaction - 12 garader alinca, hearth, browning l - High heat. Where reactants come? - Sugar, simple sugar found in rang fords. Jone sugers brown better then others. (Complex (is don't brown well) (comas Ender) - Mose (DNA de feler vor) - jen cole teplonège gran - 3hcox . o chose - Antro ouds provide diverse products body soda (albeli) -> pHT, cooling their

osit olunca, ocile glibor aminoosidi alrole gerre ortan

osigni orpisa