

7.–8. nóvember í Hörpu

Stjórnun fiskveiða

– svo miklu meira en kvóti

ÓSON Í MATVÆLAIÐNAÐI

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HAMPIÐJAN



HÁSKÓLINN Í REYKJAVÍK
REYKJAVÍK UNIVERSITY

ICELANDAIR
CARGO

ISI ICELAND
SEAFOOD



marel

Pipar TBWA



SJÁVARÚTVEGS
RÁÐSTEFNAN
2024

ÓSON Í MATVÆLAÐNADI

Næsta skref að betri gæðum

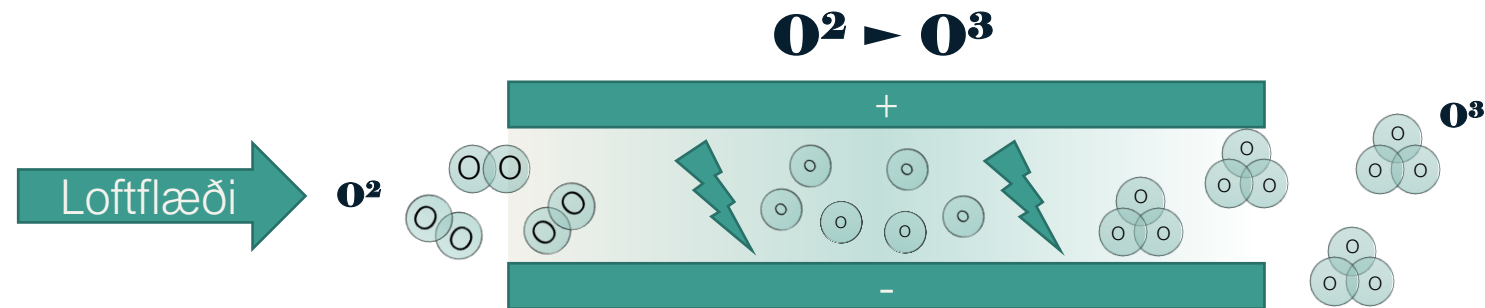
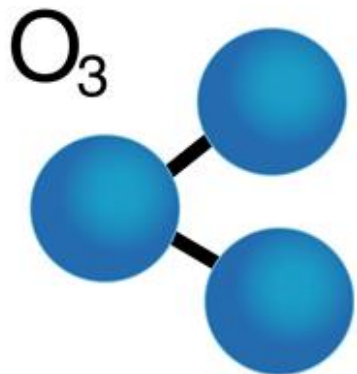
Valpór Hermannsson - Þróunarstjóri KAPP

Hvað er óson og hvernig er það búið til?

Óson er gastegund unnin úr súrefni. $O_2 > O_3$

Búið til með UV eða rafmagni (corona discharge)

Engin aukaefni við framleiðslu, bara framleitt með rafmagni

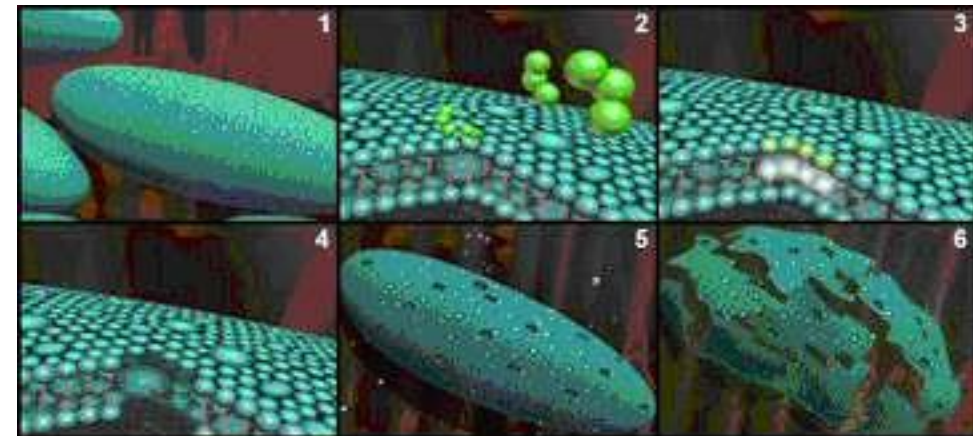


Öflugur sótthreinsir

Oxidizing Regent	Oxidizing Potential
Ozone	2,07
Hydrogen Peroxide	1,77
Permanganate	1,67
Hypochlorous Acid	1,49
Chlorine Gas	1,36
Hypobromous Acid	1,33
Oxygen	1,23
Bromine	1,09
Hypoiodous Acid	0,99
Chlorine Dioxide	0,95
Hypochlorite	0,94
Chlorite	0,76
Iodine	0,54

ÓSON EYÐIR FRUMU

- ÓSON OXAR GÖT Á FRUMUNA
- UPPBYGGING FRUMUNNAR VERÐUR ÓSTÖÐUG
- Á ENDANUM SUNDRAST FRUMAN (E. CELL LYSING)



Notkunin í dag

ÓSÓN



Notkunin í dag

Air Treatment & Odor Control



Beef



Beer & Wine



Poultry



Bottled Water



Cooling Towers



Dairy Operations



Wastewater



Food Production



Fresh Produce



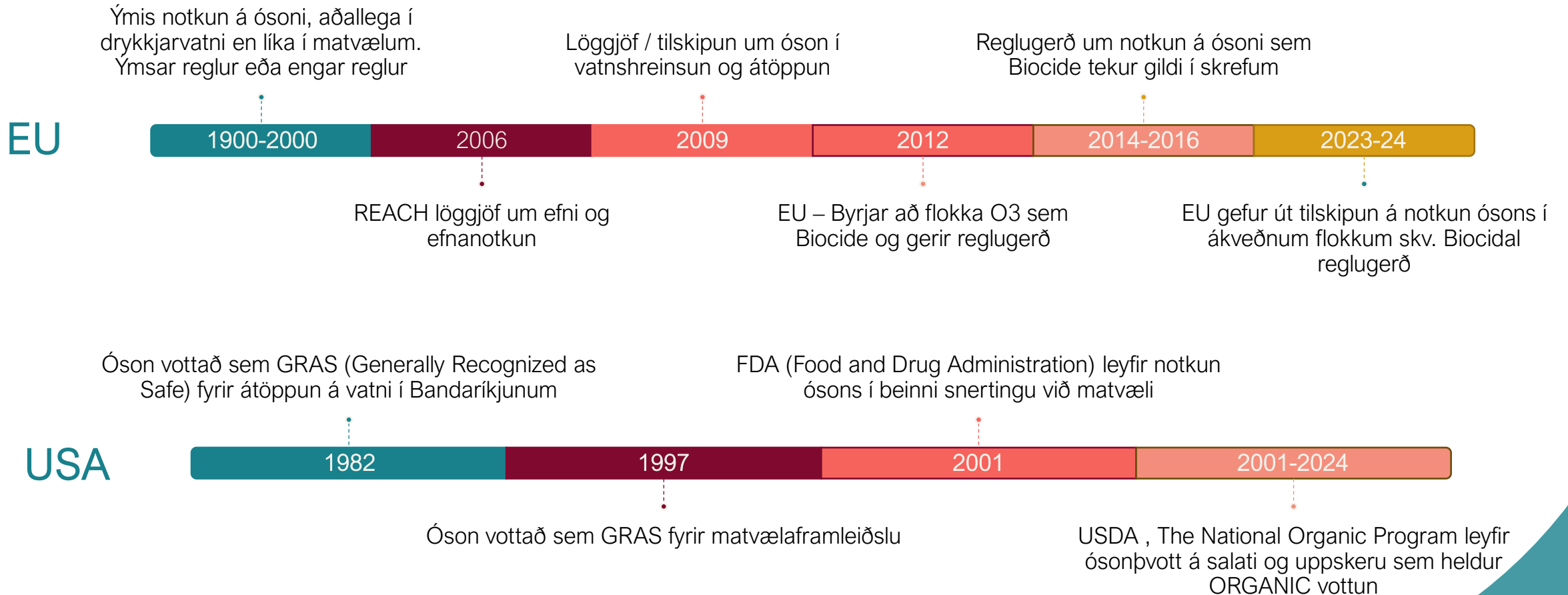
Hospitality



Seafood



Löggjöf um óson hjá EU og USA



Framtíðin í ósoni hjá KAPP og KAPP Skaganum

ÓSON + CO2 KRAPAVÉL

- Ósonmettaður krapi



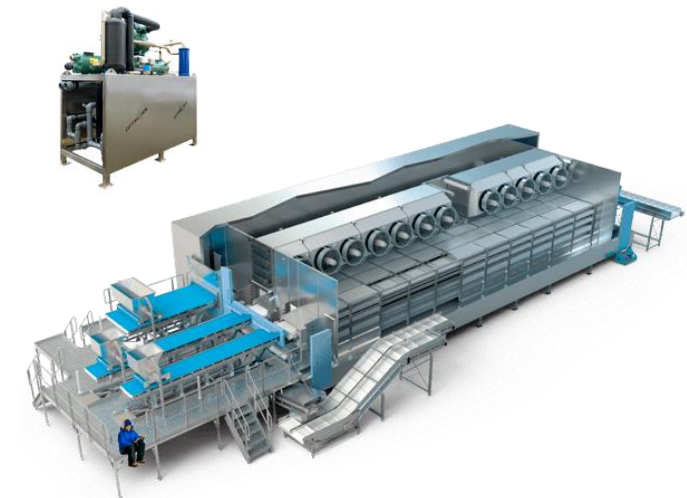
ÓSON + UPPÞÝÐING/BLÆÐING

- Hreinsun á hringrás, minni hætta á krossmengun, minni vatnsnotkun



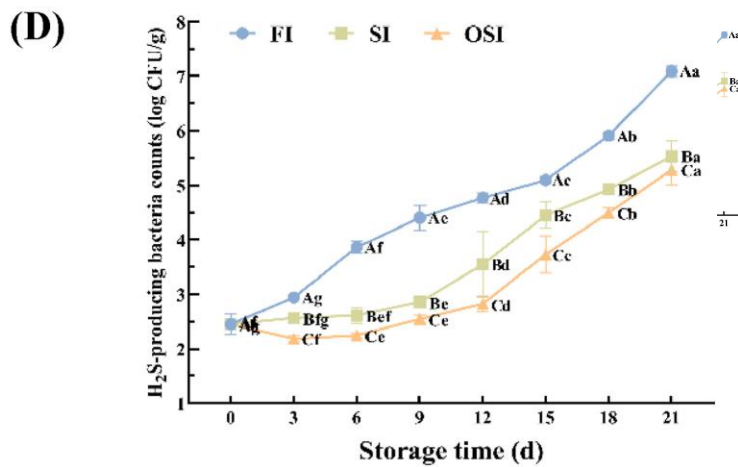
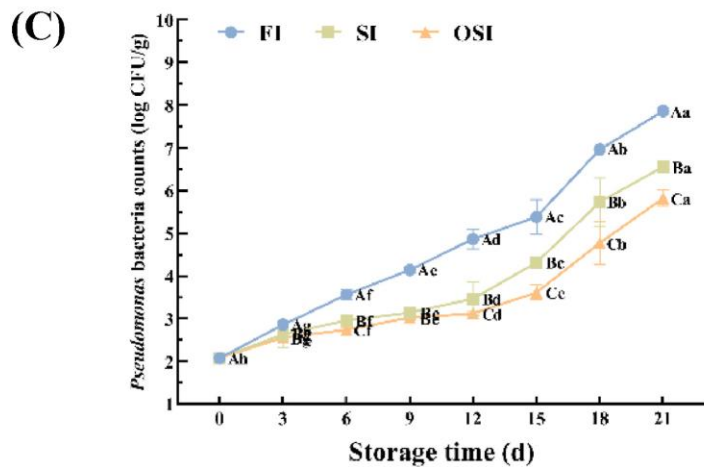
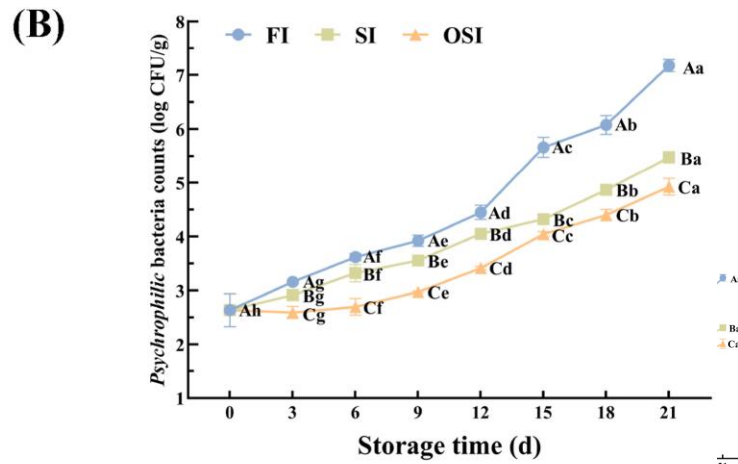
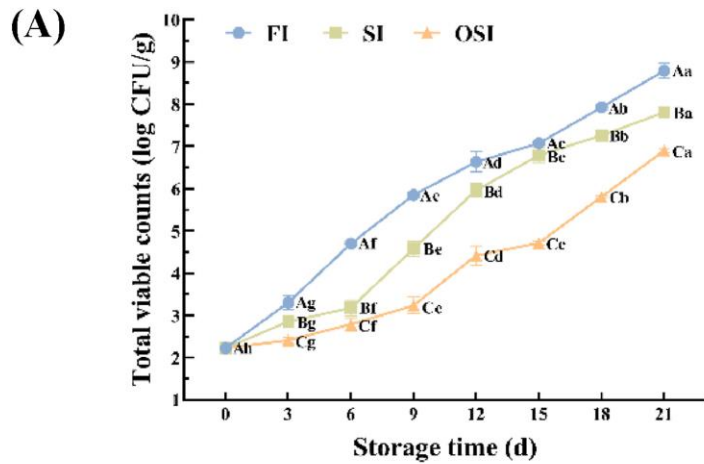
ÓSON + FORKÆLING, FRYSTING OG PÖKKUN

- Þvottur, skolun og pakkþvottur



Ósonmettaður ís

Birt rannsóknarritgerð 2023



Highlights

- OSI treatment could reduce the increase of TBA, TVB-N, K-value and BAs by inhibiting the growth of microorganisms.
- The changes of TPA and color verified the combination of ozone and slurry ice could get better effects during circulation.
- The LF-NMR and MRI analysis suggested that OSI samples could reduce the water loss of large yellow croaker.
- OSI treatment could maintain better quality and extend the shelf-life of large yellow croaker to 21 days.
- BAs (including CUD, PUT and HIS) had a potential reference index for evaluating the freshness of large yellow croaker.

**Hvað getur óson gert
til að hjálpa við
matvælaframleiðslu?**



A circular inset image showing a vibrant green aurora borealis (northern lights) against a dark, starry night sky. The aurora consists of several horizontal, wavy bands of light that appear to be flowing across the sky.

Takk fyrir

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