INSIGHTS ON ASIAN AND GLOBAL PET FOOD TRENDS

PETFOOD FORUM ASIA

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CREEP

Comprehensive Risk Evaluation of Environmental Pathogens

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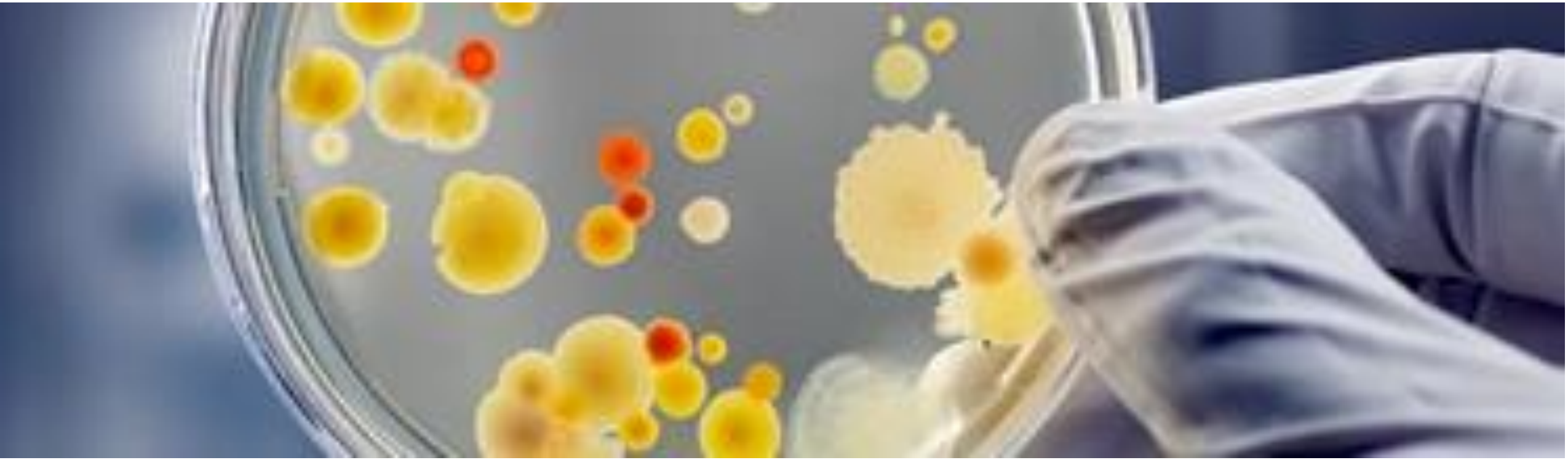
Who are the “environmental pathogens”?

Who are the “environmental pathogens”?

Why are environmental pathogens so special?



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- Highly pathogenic for susceptible victims
- Zero tolerance in RTE petfood

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Hazards can roughly be classified into two types:

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Type I: Hazards originating from raw materials that must be eliminated or reduced to an acceptable level somewhere along the process

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Hazards can roughly be classified into two types:

Type II: Hazards that can be introduced (or worsened) from the processing environment

CREEP Comprehensive Risk Evaluation of Environmental Pathogens: TYPE I

CREEP Comprehensive Risk Evaluation of Environmental Pathogens: TYPE I

It should be assumed that all raw ingredients, plant or animal, are contaminated with environmental pathogens

CREEP Comprehensive Risk Evaluation of Environmental Pathogens: TYPE I

Therefore, pathogens should not be ruled out by testing for them.

A validated pathogen **kill step** should always be a CCP!!!!




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Type II: After the CCP, recontamination should be prevented by implementing PRPs and oPRPs (or RPCs)

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RTE products with hand contact	Employee hand hygiene
Areas where RTE products are exposed	Pest control: birds and rodents
Equipment in contact with RTE products	Cleaning and sanitizing (SSOP)

Zoning

Nonproduction

Zoning

- Nonproduction
- Basic GMP

Zoning

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- Basic GMP
- High risk

In addition…

a spatial CREEP assessment should be performed to assess environmental pathogen entry points:

Packaging material

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Roofs

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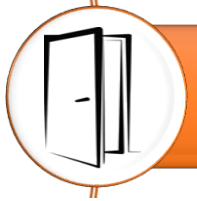
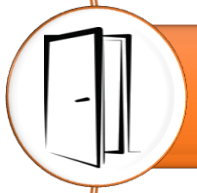


External openings

Packaging material

Roofs



External openings

Shoes

- Packaging material
- Roofs
- External openings
- Shoes
- Sewage

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Verification

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However, it is as important to test for bacteria that indicate environmental contamination: pathogens and indicative bacteria

Environmental sampling plan

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Plan corrective actions

Environmental sampling plan

No two manufacturing facilities are the same: seek expert consulting services to assist in your CREEP

Take home points:

- The battle against environmental pathogens requires a multi-faceted comprehensive approach

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- Environmental pathogens in petfood are a threat to human health
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Take home points:

- What you don't know can harm you
- Environmental pathogens in petfood are a threat to human health
- The battle against environmental pathogens requires a multi-faceted comprehensive approach

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