

IFIF



Feed the world

International
Feed
Industry
Federation

Adequate (Animal) Nutrition – Tertiary Prevention Approach

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CODEX TF Antimicrobial Resistance Side Event
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IFIF is a global organization & represents over **80%** of compound feed production worldwide

National & Regional Associations



Corporate Members



Feed-related Organizations



IFIF's Mission

- Represent the global feed industry with international governmental organizations and agencies, including the FAO, WTO, WHO, OIE and CODEX Alimentarius, on crucial global feed and food issues.
- Promote science-based solutions and information sharing for the feed industry by facilitating global forums, such as the Global Feed & Food Congress (GFFC) and the International Feed Regulators Meeting (IFRM).
- Promote a balanced regulatory framework to support a fair global playing field, facilitate market access and support the competitiveness of the feed and livestock industries.
- Expand the global network of national and regional feed associations and promote the adoption of international standards and global equivalency.
- Continue to support and encourage the sustainable development of animal production.

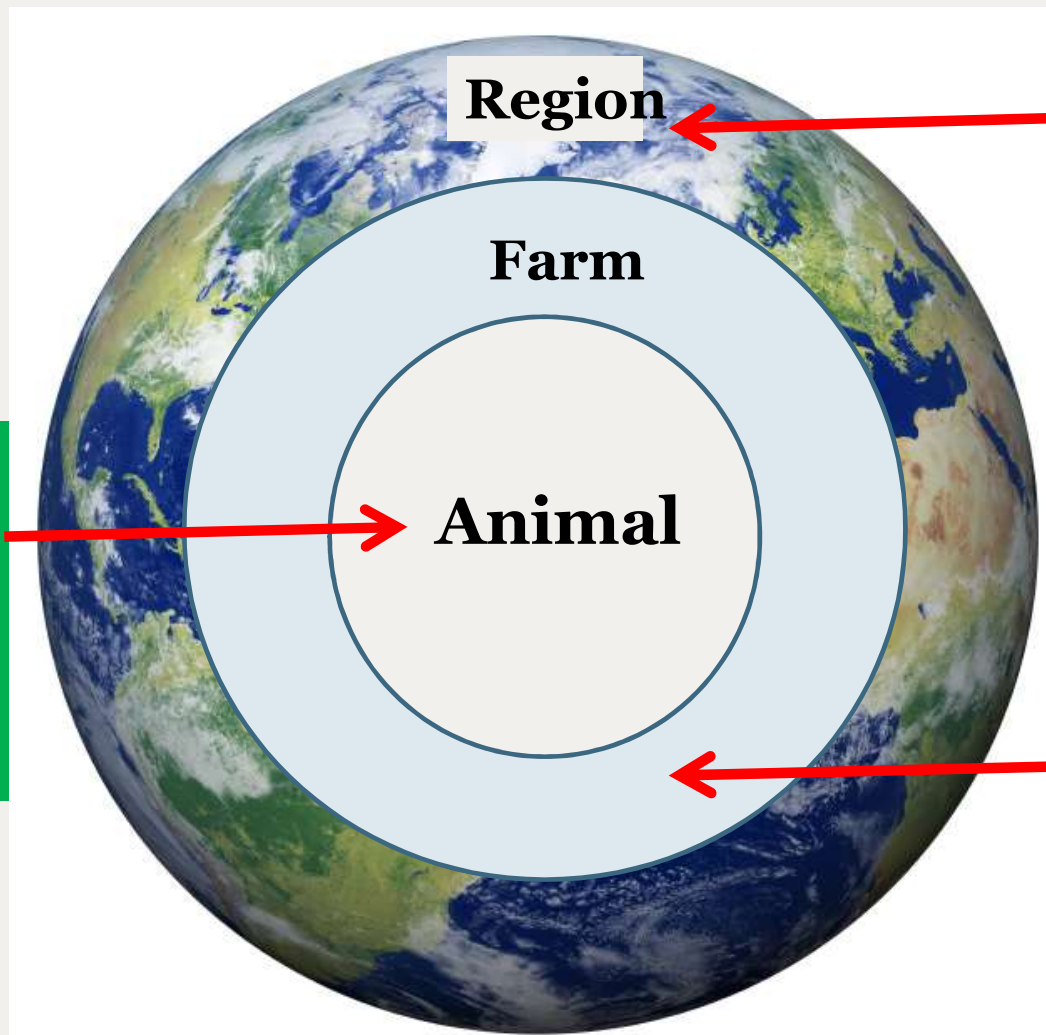
Examples of activities

- 2005: Regulatory comparison project followed by the risk assessment convergence project
- 2006: 1st annual International Feed Regulators Meeting
- 2010: Publication of the FAO/IFIF Manual of Good Practices for the Feed Industry (to implement Codex Code of Practice on Good Animal Feeding)
- 2012: start of the training the trainer programme
- 2016: Partner of the FAO-facilitated Feed Safety Multi-stakeholder Platform

Strategies to reduce the need to use antibiotics

Tertiary prevention:

Increase ability of animals to cope with pathogens



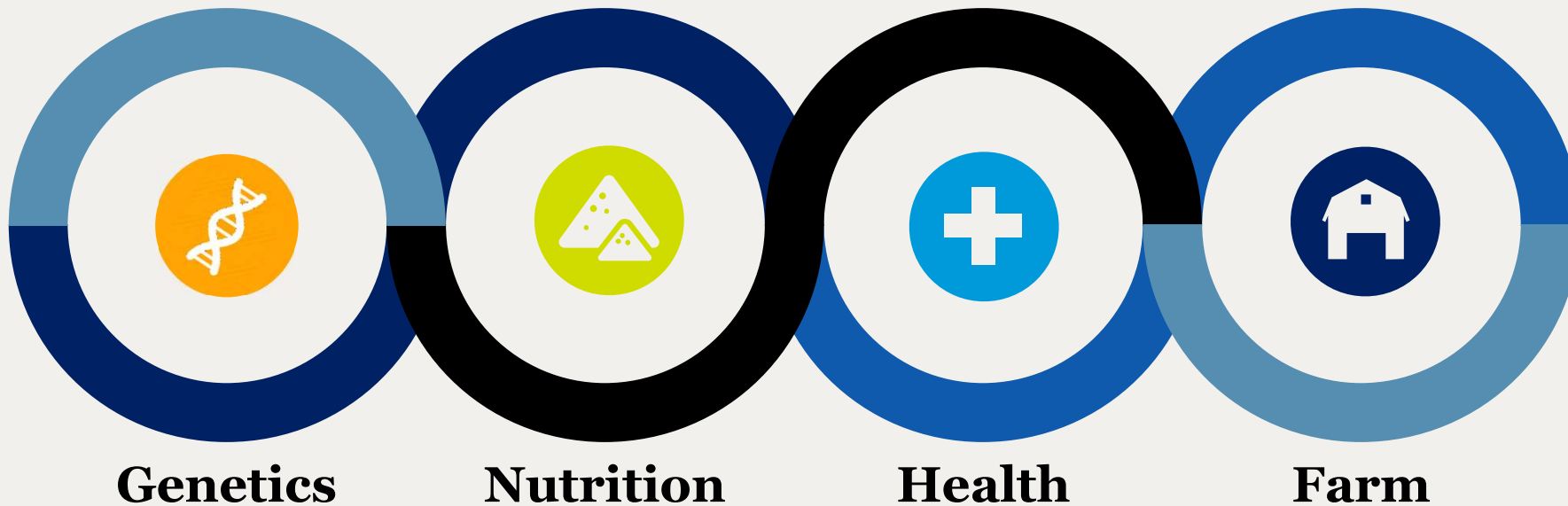
Primary prevention:

Reduce introduction and spread of microorganisms between farms

Secondary prevention:

Reduce transmission or spread within farm

A multistakeholder approach is needed....



... where feed industry has a crucial role

**Feed
Ingredients**
Nutrient /
Function

Animals
Adequate
Nutrition

Feed Industry

**Feed composition
tables**

**Least cost
formulation**

**Nutrient
requirement tables**

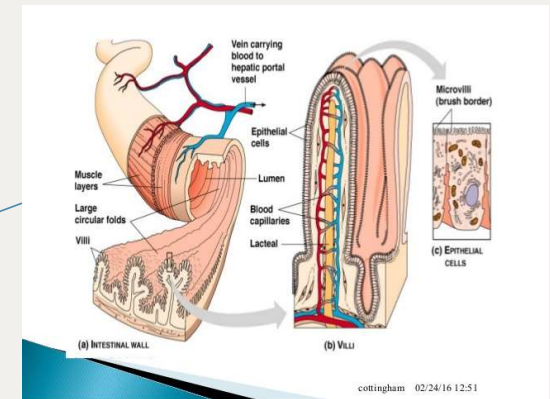
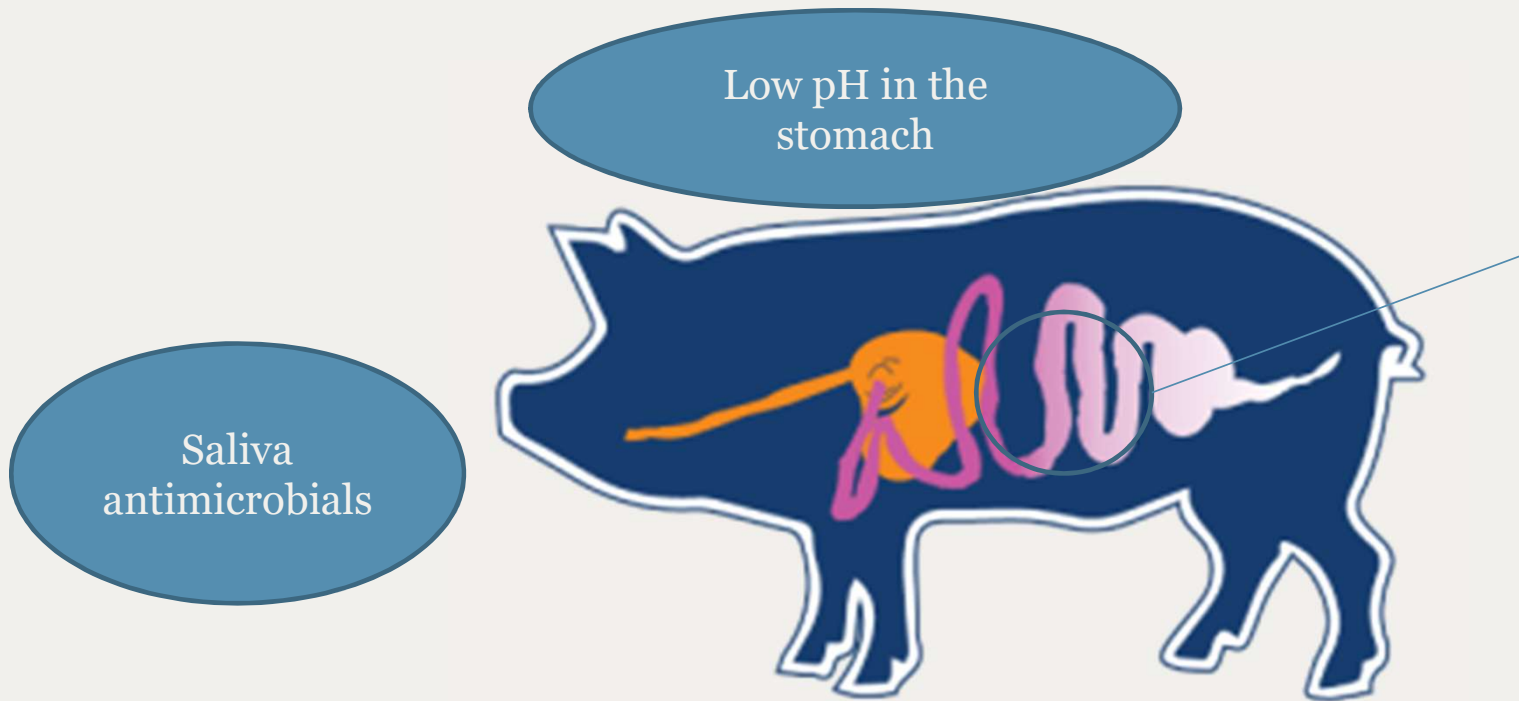
**Specialty Feed
Ingredients**

Feed processing

Feeding approaches

Nutritional strategies

Animals are naturally coping with pathogens...



Eubiosis

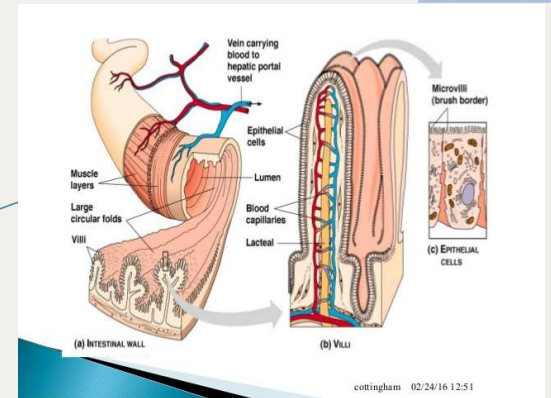
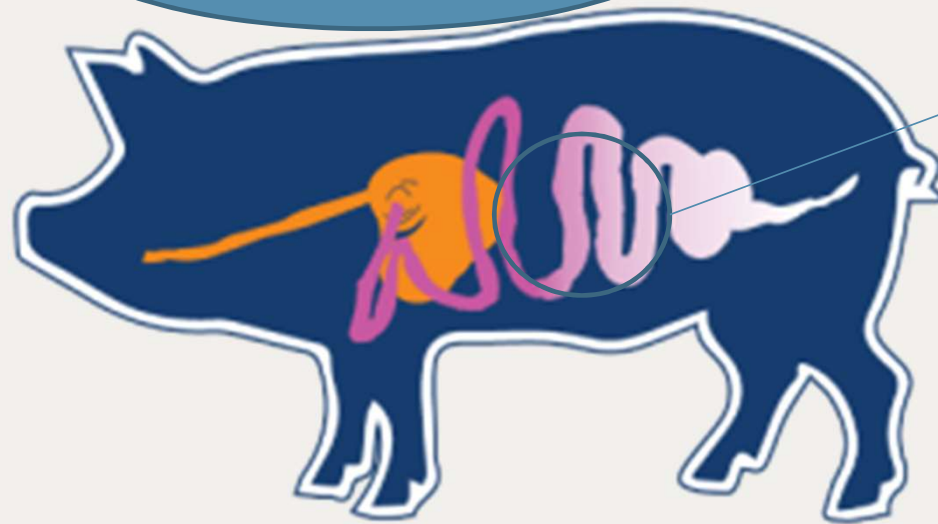


Adequate (animal) nutrition is providing the right amount and quality of nutrients

... but under certain circumstances, the balance is lost ...

Saliva antimicrobials

Low pH in the stomach

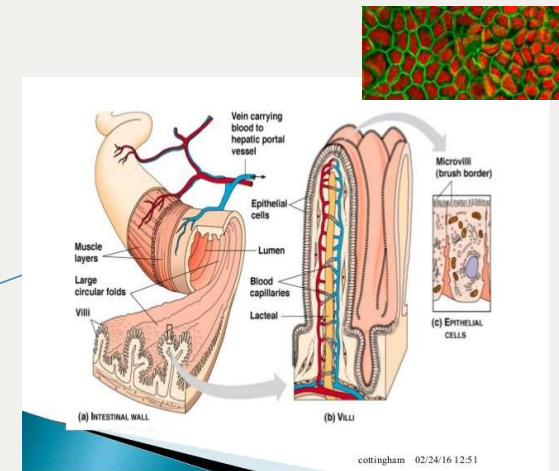
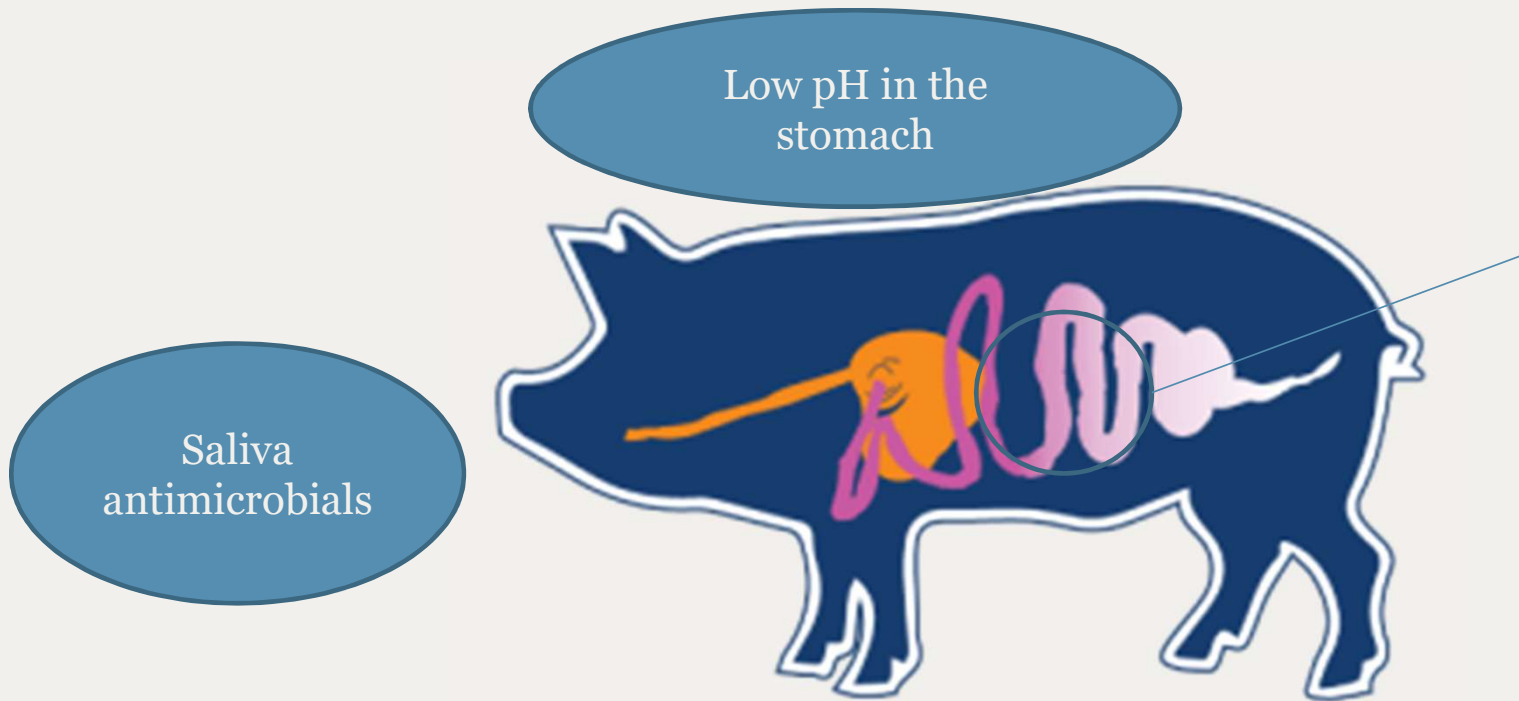


Dysbiosis



When the balance is lost, animals become sick and antibiotics are used

... unless adequate nutrition is implemented



Eubiosis



Adequate (animal) Nutrition is implementing nutritional strategies to prevent balance loss

Specific Roles of the Feed Industry



Raw material management

Protein sources
Limitation of
antinutritional factors

Ingredients	Age, days		
	0-10	11-20	21-30
Max	35	45	60
Max	6	2.5	5
Max	10	15	20
Max	5	5	7.5
Min-Max	25-50	10-35	5-22.5
Max	10	10	10
Max	20	25	30
Max	15	17.5	20
Max	5	5	5
Max (P/M, w/kg)	2.5	2.5	-
Max	5	5	-
Max	6	-	-
Max	-	-	-

Diet formulation

Protein digestibility
Phase feeding
Early Life Nutrition
Specialty Feed
Ingredients



Feed processing

Feed form
Feed processing
Particle size
Segregation



Feed safety

Moulds / Mycotoxins
Microorganisms



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