CAMBRIDGE JOURNALS

# Discover the benefits of *WPSJ* on Cambridge Journals Online (CJO)




- Register for content alerts and receive notification when new articles are published online **journals.cambridge.org/wps-alerts**
- Save searches
- Search across Cambridge Books Online (CBO) and Cambridge Journals Online (CJO) simultaneously using our new faceted search functionality
- Register for updates on new developments and sample content from your 'favourite journals'
- Easily download citations to reference management software

Members of WPSA who prefer online access should subscribe through the society website **www.wpsa.com**

## CJOmobile (CJOm)

CJOmobile is now available and offers the following functionality:

- CJOm is optimised for smart phones and other small mobile devices. Mobile devices will be detected and automatically directed to CJOmobile
- If users sign up for content alerts, or save searches or articles, they are now available on the main CJO and vice versa
- CJOm offers increased speed and convenience for mobile users
- CJOm also functions as a faster access point for readers in countries with low bandwidth internet access

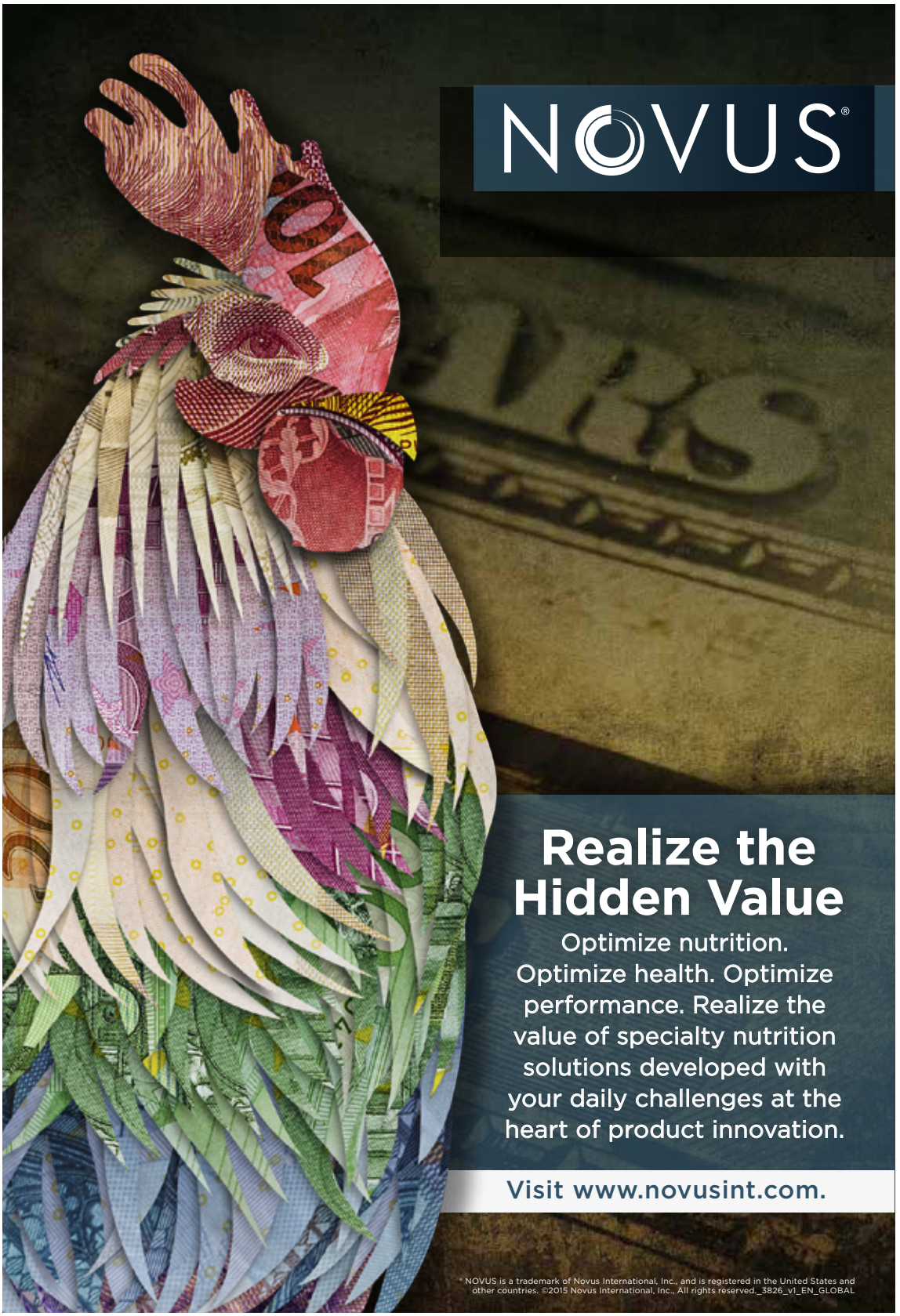


THE WORLD'S POULTRY SCIENCE ASSOCIATION

**journals.cambridge.org/wps**

CAMBRIDGE UNIVERSITY PRESS

https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press




https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press

WE ANALYSE

# GUT HEALTH BIOMARKERS

FROM **YOUR TRIAL SAMPLES**



**You**
- collect samples according to our instructions
- use the analysis data for product development, publications and marketing
- gain maximum information from each trial conducted

**We**
- arrange kits for user-friendly sample handling and stabilisation
- take care of sample delivery logistics and import licenses
- analyse and report microbiological, chemical and immunological gut health biomarkers

Alimetrics DIAGNOSTICS

**alimetrics.com | diagnostics@alimetrics.com**

# So Many Reasons...

Cobb500™

Simply the best broiler in the world




COBB-VANTRESS.COM

Cobb

ONE FAMILY.
ONE PURPOSE.


https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press

Cevac IBird®



HEALTHY CHICKENS

Cevac IBird®: infectious bronchitis under control from the hatchery.

**Ceva Santé Animale S.A.** - 10, av. de la Ballastière - 33500 Libourne - France
Phone : +33 (0) 5 57 55 40 40 / Fax : +33 (0) 5 57 55 42 37
**www.ceva.com - contact@ceva.com**

https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press




# THE FRENCH BRANCH OF WPSA IS INVITING YOU TO PARIS FOR WPC2020

**Nearby Champs-Elysées**
at « Palais des Congrès de PARIS »,
A venue with scientific sessions, posters, exhibition on a single level




## EARLY SPONSORING

is open with a **10% discount until June 30, 2019.**
A large choice of options is proposed, including technical symposia.
Contact: i.brochot@clq-group.com

## SCIENTIFIC PROGRAM

The scientific committee gathers representatives of the 14 Working Groups of WPSA, and recognized international experts in poultry science.

NEW!

- **Multidisciplinary sessions** adressing major challenges in poultry production
- Posters will be displayed on large TV screens: **no paper, just 'e-posters'**
- **A mobile app** will help participants to organize their agenda, question speakers and exchange with participants
- **A FAO symposium** to address the contribution of poultry production to sustainable development goals

## Important dates

Abstract submission
**September 1 to December 31, 2019**

Early rate for registration
**September 1 to December 31, 2019**

## A surprising Gala Dinner

with lots of fun and games for an enjoyable evening with colleagues and friends!

KEEP UP-TO-DATE BY VISITING **WPCPARIS2020.COM**

https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press



Think ahead with **poultry people**





Vencomatic Group is a global supplier of innovative and sustainable housing and egg collection systems for the poultry sector.

With many years of experience, we are the expert in this field and a reliable partner for you. Vencomatic Group combines three strong brands in the poultry sector:

- Vencomatic - Housing equipment
- Agro Supply - Climate control
- Prinzen - Egg handling

**www.vencomaticgroup.com**

Vencomatic Group

Agro Supply – Prinzen – Vencomatic


https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press



KEEP CONTROL & THINK FAST

# 15,000 BPH PROCESSING

**Proven solution for all-time high processing capacity**

- All systems set for 15,000 bph: from live bird handling up to chilling and distribution line
- Keeping control of optimal efficiency and highest quality standards without compromises
- Cost effective with attention to animal well-being and food safety

Contact us to find out more:
+31 485 586 111
info.poultry@marel.com
**marel.com/15000**

ADVANCING
FOOD PROCESSING

marel
POULTRY

https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press

# Mycofix®
## Proven protection

EU REGISTERED*
*Regulation (EU) No 1060/2013

… throughout the entire production cycle.

**Mycofix®** is **the** solution for mycotoxin risk management.

mycofix.biomin.net

MYCOTOXIN RISK MANAGEMENT



Naturally ahead

Biomin®

Hubbard
YOUR CHOICE, OUR COMMITMENT

HUBBARD CONVENTIONAL
*the efficient choice!*

EFFICIENCY PLUS

NEW



THE NEW STANDARD
FOR EFFICIENCY

www.hubbardbreeders.com


https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press

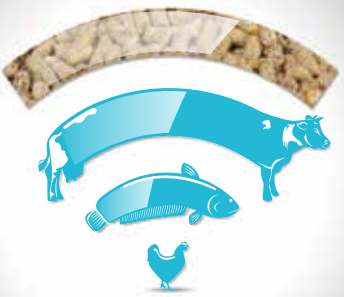
**It is all about the embryo.**
Successful incubation relies on supporting the needs of the growing embryo with the right tools. Managing and monitoring endothermic, neutral, exothermic and hatching environments by tailoring conditions to the specific embryonic needs throughout the hatch.

**And it is also about knowledge.**
With 250 years of combined knowledge, our team of hatchery professionals know how to use the right tools to get the best results.



JAMESWAY
The Incubator Company
www.jamesway.com

*all about feed technology in the website*



www.nmfeed.com
An Iranian website for the whole world



*New Millennium Feed Processing Co.*

BioChek
BIOCHEK, SMART VETERINARY DIAGNOSTICS

The BioChek Quality System

**ELISA & qPCR test kits**

- Easy protocol
- Excellent reproducibility
- Reference controls
- Conclusive and differentiated results
- Powerful yet user-friendly software with online database



**www.biochek.com**

https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press

## Don't water down your efforts.

Best results with MetAMINO®

**Enhance nutritional value – and reduce costs.**

Liquid methionine sources add unnecessary mass to your feed mix. MetAMINO® in dry crystalline form adds nothing but pure quality. To make the very most of MetAMINO®, you can take advantage of our analytical services for feed components.
MetAMINO®: not just better – best results.

**www.metamino.com**



EVONIK
POWER TO CREATE



SALMET®

**Reliable, durable and thoroughly tested poultry equipment**





**Conventional Layer Systems**

**Cage Free Systems**

**Manure Handling**

Tel: +49 6074 3760 0
info@salmet.de
**salmet.de**

... for your success!




7th
Mediterranean
Poultry Summit

Córdoba, Spain
25-27 March 2020

Contact: Mr C. Garcés Narro
cordoba2020@mpn-wpsa.org
www.mpn-wpsa.org/spain2020/


https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press

# Protected? Let the chickens talk

Protectotype



Designing the right vaccination program is an art. When it comes to Infectious Bronchitis, serotype and genotype are of limited help. You want broad protection without question? Let the chickens tell you how well they are protected by your vaccination program. www.infectious-bronchitis.com

## We call it the Protectotype™ approach

Intervet International bv, P.O. Box 31, 5830 AA Boxmeer, The Netherlands, Phone +31 (0)485 587600,
Fax +31 (0)485 577333, E-mail info@merck.com, www.msd-animal-health.com
Merck Animal Health (known as MSD Animal Health outside the US and Canada), subsidiaries of Merck & Co., Inc, Whitehouse Station, NJ, USA.
MERCK and MSD are trademarks of Merck Sharp & Dohme Corp., a subsidiary of Merck & Co., Inc., Whitehouse Station, NJ, USA.
Copyright © 2011 Intervet International B.V, subsidiaries of Merck & Co., Inc., Whitehouse Station, NJ, USA.
All rights reserved.

MSD Animal Health

PM11_0017


https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press

# EuroTier

First in animal farming.



The world's leading trade fair

## 17– 20 November 2020
## Hanover, Germany

Hotline: +49 69 24788-265 | expo@DLG.org

www.eurotier.com | facebook.com/eurotier

including energy decentral POWERING NEW IDEAS

MADE BY DLG


https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press

MOBA

GRADING - PACKING - PROCESSING

Moba is a global organisation that offers total solutions for making egg grading, packing and processing more efficient. Our global team of skilled specialists is there to help you implement and maintain the most innovative and profitable equipment, designed for your future.

EGG HANDLING FROM 1.600
UP TO 180.000 EGGS PER HOUR





THE PARTNER FOR PROFIT

www.moba.nl

https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press










https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press

NABEL
Grading with NABEL

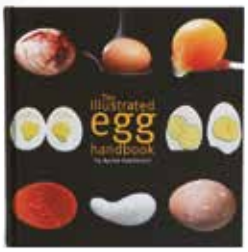
Egg Quality Management

HIGH SPEED
& HIGH ACCURACY
DET6500
Digital Egg Tester

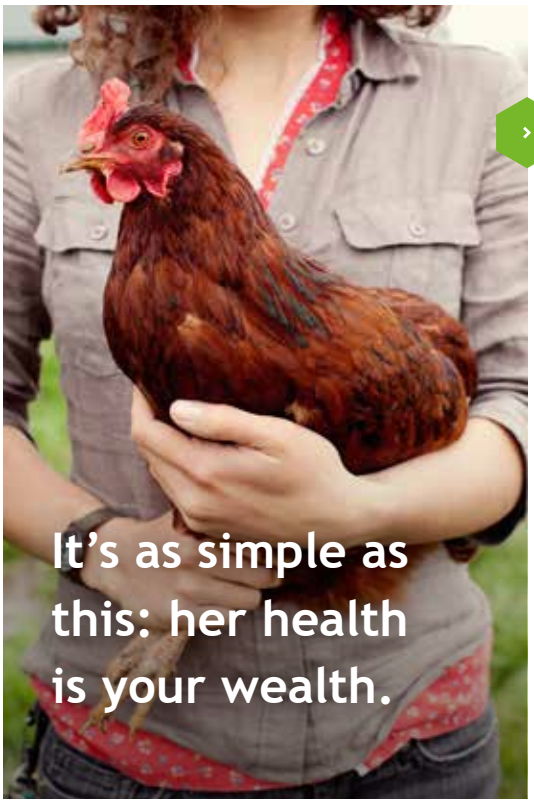
Haugh Unit
Yolk Index
Yolk Color
Shell Strength
Shell Thickness



The Illustrated egg handbook
English Ver.
158 pages
Full color



NABEL Co., Ltd. Web:www.nabel.co.jp / E-Mail:nabel@mail.nabel.co.jp / Tel:+81(0)75-693-5309




A NA028-23

At Nutriad, we have a thorough understanding of animals and animal processes, which gives you the certainty that all our feed additives help improve the health of your animals in the most effective way. That means they are growing safely – securing your investments and income. After all, we have a thorough understanding of farmers and feed manufacturers too.

**Interested?**
**Visit nutriad.com for your local contact.**

nutriad

https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press

Delacon
BIOSTRONG® FORTE

Because food safety matters:
Have guts to walk away from AGPs.

BIOSTRONG® FORTE is designed to control the microbial ecosystem in the gastro intestinal tract and to improve protein utilization – for top performance under challenge conditions.

Find more information online!

www.delacon.com



Yukou Jing Series Layer Varieties, the more popular layers in China

Yukou Poultry, one of the top three layer breeding companies, has successfully bred five layer varieties to meet the diversified demands for eggs, including Jing Brown 1, Jing Pink 1, Jing Pink 2, Jing Pink 6, and Jing White 1.

Yukou Jing series layers are famous for low mortality, high yield, sound FCR, and excellent efficiency, which account for 50% of the market share in China.



峪口禽业
Yukou Poultry

Add: NO.3 Xinglongzhuang North Street Pinggu District Beijing, 101206
Tel: +86 10 61905659

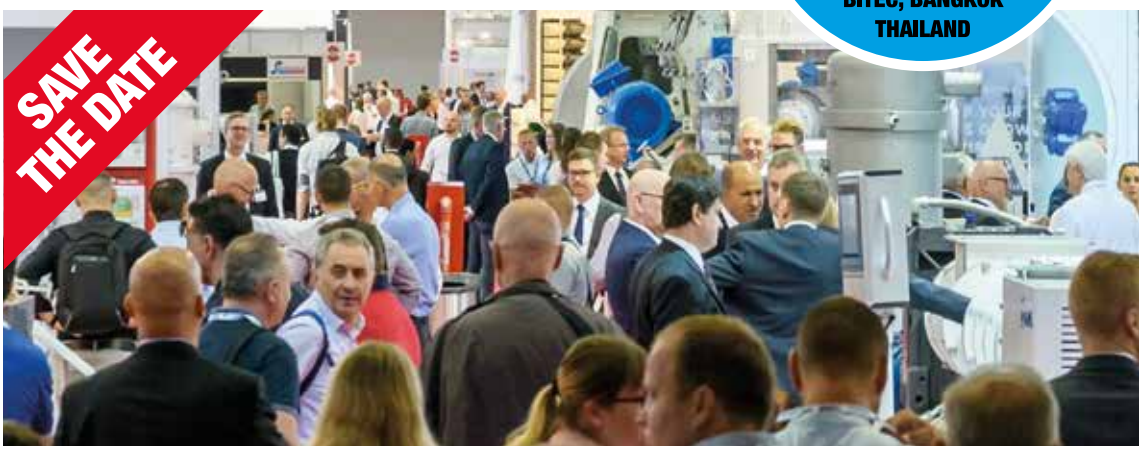
www.hdyk.com.cn

https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press

# VICTAM AND ANIMAL HEALTH AND NUTRITION Asia 2020

**THE TOTAL ANIMAL FEED AND HEALTH EVENT**

**MARCH 24 - 26**
**BITEC, BANGKOK**
**THAILAND**




## JOIN US IN 2020

VICTAM ASIA is firmly established as the event dedicated to the animal feed processing industry within Asia. Co-located with VICTAM Asia 2020 is Animal Health & Nutrition, making this the total animal feed and health event organized by Victam and VIV.

## WHY ATTEND?

- ✔ **See what is trending in your industry**
- ✔ **Conferences with key topics in line with your interests**
- ✔ **Build your network**
- ✔ **Business matchmaking opportunities**
- ✔ **Access to the industry exhibition**
- ✔ **Meet (potential) customers**

**Organized by:** VICTAM CORPORATION | viv

**Supported by:** Thailand Convention and Exhibition Bureau (TCEB)

TCEB THAILAND CONVENTION & EXHIBITION BUREAU

**400** exhibitors | **17.800** m² exhibition | **9.000+** visitors | **100+** speakers | **70+** countries | **100+** media

**OFFICIAL SHOW WEBSITES: VICTAMASIA.COM & VIVHEALTHANDNUTRITION.NL**


https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press




DSM
BRIGHT SCIENCE. BRIGHTER LIVING.

Poultry production faces increasing challenges.
There are so many things to consider that it can be hard to find the balance between meeting these challenges and maintaining profitability. Together DSM and Novozymes have created Balancius™, the first and only broiler feed ingredient designed to unlock the hidden potential in gastrointestinal functionality.

Through its unique mode of action, this patented technology helps optimize nutritional absorption and digestibility, so broilers get more from their feed. Balancius™ has also been shown to consistently improve feed conversion ratios by 4-6 points (3%).
That's a lot of rewards for a small addition.

**To discover the science behind Balancius™, visit dsm.com/balancius**

NUTRITION • HEALTH • SUSTAINABLE LIVING


https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press




# Meyn Rapid Plus breast deboner M4.1
## saves up to 33 FTE per shift

Meyn understands the industry, we know how to deal with the challenges presented by the market and we provide relevant solutions. E.g. for processors facing increasing demand for poultry meat while unemployment rates are low. The innovative solution for minimizing your dependency on labor skills and labor availability.
So, let's work together! **www.meyn.com**

SMART LABOR
**SOLUTIONS**

meyn
Innovating the future

Meyn Food Processing Technology B.V., P.O. Box 16, 1510 AA Oostzaan, The Netherlands
T: +31 (0)20 2045 000 E: sales@meyn.com I:www.meyn.com

https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press

innovad® LABORATORIES



## Natural Solutions

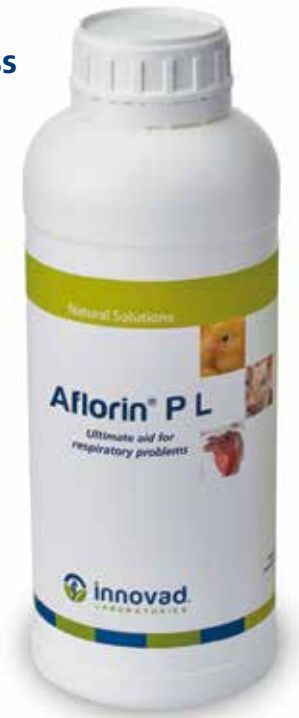
**Menthol** **Eucalyptus** **Plant sterols saponin**

# Aflorin® P L

## The ultimate aid for respiratory stress

**Benefits:**

- Improves respiration and air passage.
- Reduces mucus accumulation and discharge out of respiratory cavities.
- Reduces the negative effects of disease as well as quick recovery.
- Improves resistance to all respiratory infections.
- Improves survivability and reduces mortality.






**www.innovad-laboratories.com**
Essen, Belgium

https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press

# ...COMING IN 2020

## VIV **MEA**

**ABU DHABI, U.A.E. | MARCH 9-11, 2020**

INTERNATIONAL TRADE SHOW FROM FEED TO FOOD FOR THE MIDDLE EAST AND AFRICA

## VICTAM **ASIA & ANIMAL HEALTH & NUTRITION ASIA**

**BANGKOK, THAILAND | MARCH 24-26, 2020**

THE TOTAL ANIMAL FEED AND HEALTH EVENT, BY VICTAM AND VIV

### VIV WORLDWIDE **FULL EVENTS CALENDAR** 2019-2022

| | |
|---|---|
| **POULTRY Africa** 2019 | KIGALI, OCTOBER 2-3 |
| VICTAM **ASIA** & ANIMAL **HEALTH & NUTRITION** ASIA BY VICTAM AND VIV | BANGKOK, MARCH 24-26 |
| VIV **MEA** 2020 | ABU DHABI, MARCH 9-11 |
| VIV **ASIA** 2021 | BANGKOK |
| VIV **EUROPE** 2022 | WORLD EXPO FROM FEED TO FOOD |

PARTNER EVENTS SUPPORTED BY VIV WORLDWIDE

| | |
|---|---|
| VIV **Qingdao** 2019 | QINGDAO CHINA, SEPTEMBER 19-21 |
| VIV **Russia** 2020 | MOSCOW |
| VIV **Turkey** 2021 | ISTANBUL |

**THE BUSINESS NETWORK LINKING PROFESSIONALS FROM FEED TO FOOD**

**WWW.VIV.NET**

**Online**
24/7 knowledge networking from feed to food

https://doi.org/10.1017/S0043933919000801 Published online by Cambridge University Press