



F3 Fish Oil Challenge

Four Global Competitors Enter “Fish-Free” Fish Oil Race

四家国际公司角逐第二届 F3“非鱼基”鱼油挑战赛

Final contestants announced, first sales results in for F3 Fish Oil Challenge

最终参赛队伍名单已确定，首轮销售统计结果新鲜出炉

Jan. 17, 2019—Four contestants have officially joined the race to replace the “fish” in fish oil. The global competitor who sells the most “fish-free” fish oil for aquaculture that meets the [challenge criteria](#) by Aug. 31, 2019 will win the \$100,000 USD grand prize.

2019 年 1 月 17 日——第二届 F3 “非鱼基”鱼油挑战赛共有四家国际公司进入最终比赛环节。谁能在 2019 年 8 月 31 日前销售最多符合比赛标准的“非鱼基”鱼油用做水产饲料，谁就将赢得 10 万美金的奖金。

The competitors include China-based Guangdong Evergreen Feed Industry Co. Ltd., China-based Shen Zhen Alpha Feed Co. Ltd., Netherlands-based Veramaris and the UK/U.S.-based team Aquaculture Innovation/Qualitas Health. A combined total of 77,535 kilograms of F3 oil was sold by the contestants during the first sales period, which ran from Oct. 1 to Dec. 31, 2018. Veramaris is currently in the lead with the most oil sold.

四家参赛公司分别是来自广东的恒兴饲料实业股份有限公司、深圳的澳华集团股份有限公司、荷兰的 Veramaris 公司、英国/美国的 Aquaculture Innovation/Qualitas Health 团队。在 2018 年 10 月 1 日至 12 月 31 日的首轮销售统计当中，四家参赛公司共销售了约 77535 公斤的“非鱼基”鱼油。截止目前，Veramaris 公司拥有最多的销售量。

“We are excited by the global reach of the contestants in the F3 fish oil race,” said Kevin Fitzsimmons, F3 Challenge judge and professor at the University of Arizona. “These top-notch competitors will help move the industry toward more sustainable ingredients in fish feed.”

“我们非常高兴，参加本次 F3“非鱼基”鱼油挑战赛的公司都很有国际影响力。” F3 挑战赛主席、亚利桑那大学教授 Kevin Fitzsimmons 说道，“这些龙头公司将会推动水产饲料行业向更可持续发展的方向发展。”

The [F3 Fish Oil Challenge](#) is an incentive prize designed to help accelerate commercial-scale ingredients for aquaculture feed that meet the nutritional requirements of fish to produce healthy seafood for consumers without utilizing wild-caught fish.

F3“非鱼基”鱼油挑战赛旨在帮助加速替代原料的商业化，这些替代原料不依赖于海洋野生鱼类，但又能满足养殖鱼类的营养需求，饲养出健康水产品。

Aquaculture, or fish farming, supplies one of the world's most efficient sources of animal protein. However, the industry is being held back by the availability of one key ingredient: fish oil, which provides important omega fatty acids necessary for animal and human nutrition.

水产养殖是世界上效率最高的动物蛋白生产途径之一。鱼油是水产饲料当中的重要成分，富含人体所必须的欧米伽 3 与欧米伽 6 脂肪酸。然而，鱼油的供应不足严重限制了水产养殖业的发展。

Each year, an estimated 16 million metric tons of wild fish are caught exclusively for use in fish oil and fishmeal. Wild-caught fish are currently the major source of Omega-3 known and contains DHA, EPA

and ARA—essential fatty acids needed to grow farmed-raised fish. Without alternative marine animal-free oil sources, the world’s oceans will not be able to keep up with the demand for fish to feed the growing world population, which could result in major supply chain disruptions in the multi-billion dollar aquaculture industry.

据估算，每年大概有 160 万吨的野生鱼类用于制作鱼油鱼粉。野生捕捞的鱼类是目前欧米伽 3 脂肪酸最主要的来源，同时也蕴含了丰富的 DHA、EPA 与 ARA 等重要的养殖鱼类所需脂肪酸。当前海洋饵料渔业资源已接近枯竭，若无法找到“非鱼基”鱼油来源，那么海洋将无法满足日益增长的世界人口的需求，同时也会导致水产养殖业供应链的中断。

The University of Arizona, University of Massachusetts Boston, Synbiobeta, Anthropocene Institute, Dawson Family Fund, Sustainable Ocean Alliance, The Nature Conservancy, The Campbell Foundation, Tides Foundation and The National Renderers Association are sponsors of the crowdfunded prize.

感谢以下单位提供赞助：亚利桑那大学，马萨诸塞州波士顿大学，Synbiobeta 公司，Anthropocene 研究院，Dawson 基金会，可持续海洋联盟，大自然保护协会，Campbell 基金会，Tides 基金会，动物油脂协会

Team Profiles

参赛团队简介

Aquaculture Innovation/Qualitas Health

UK-based Aquaculture Innovation has a history of bringing innovation to the aquaculture market, with a track record of successfully commercializing novel feed control systems and biotechnology. The company has now turned its interest to new fish feed ingredients that will facilitate sustainable growth of the aquaculture sector. Aquaculture Innovation has a material that provides a high level of digestible protein as well as omega-3, with the ratio between the two being controllable, and the production technology being highly scalable. For more information, visit: <http://aquainnovation.com/>

Aquaculture Innovation/Qualitas Health

总部位于英国的 Aquaculture Innovation 公司一直以来致力于水产养殖市场的创新发展，并曾成功地使新型饲料控制系统与生物技术商业化。如今，Aquaculture Innovation 开始研究新型鱼类饲料成分，以促进水产养殖业的可持续性发展。Aquaculture Innovation 研发出一种物质可提供高质量易消化蛋白与欧米伽 3，并且可控制二者之间的比例。这种物质可大规模商业化生产。详情请查询 <http://aquainnovation.com/>

Guangdong Evergreen Feed Industry Co., Ltd.

China-based Guangdong Evergreen Feed Industry established in 1995, is a corporate enterprise integrated in seedling breeding, feed production and marketing, micro ecological preparation and health products, import and export trade. There are 32 subsidiaries belong to Evergreen, which are located in many different provinces, such as Guangdong, Guangxi, Hainan, Fujian, Jiangsu, Zhejiang, Hubei, Jilin and even some Southeast Asian countries like Vietnam. The domestic sales of Evergreen’s special aquatic feed have been the top sales for many years. For more information, visit: <http://www.evergreenfeedindustry.com/en/>

广东恒兴饲料实业股份有限公司

总部位于中国广东的广东恒兴饲料实业股份有限公司成立于 1995 年，是一家集育苗、饲料生产与市场营销、微生态制剂与保健品、进出口贸易于一体的企业集团。恒兴公司旗下有 32 个分公司，位于多个省份，例如广东、广西、海南、福建、江苏、浙江、湖北、吉林，甚至一些东南亚国家如越南。恒兴的水产养殖饲料在国内销量长期名列前茅。详情请查询：<http://www.evergreenfeedindustry.com/en/>

Shen Zhen Alpha Feed Co. Ltd.

China-based Alpha Feed established in 1998 is an international high-tech company specializing in high-end feed research and development, production and sales. At the same time, the services Alpha Feed provides include integrated solutions for animal nutrition, breeding environment purification and breeding mode consultation. For more information, visit: www.alphafeed.com

深圳澳华集团股份有限公司

总部位于中国的深圳澳华集团股份有限公司成立于 1998 年，是一家专门从事高端饲料研发、生产和销售的国际性高科技公司。与此同时，澳华集团股份有限公司还提供动物营养，育种环境净化和育种模式咨询的综合解决方案服务。详情请浏览：www.alphafeed.com

Veramaris

Veramaris is a 50:50 joint venture of DSM and Evonik to produce the omega-3 fatty acids EPA and DHA from natural marine algae. Located in Delft, the Netherlands, Veramaris was launched in 2018, because its parent companies shared a vision: to conserve marine life by using a resource the ocean provides – natural marine microalgae. Producing an algal oil rich in the two essential omega-3 fatty acids EPA and DHA through large-scale fermentation at its facility in Blair, Nebraska, USA, Veramaris enables partners along the value chain to become independent from wild-caught fish and meet the growing demand for animal protein responsibly. Veramaris' omega-3 from microalgae is a high-quality alternative to fish-based ingredients for sustainable animal nutrition. Feeding Veramaris omega-3 oil directly to animals helps protect marine habitats and conserve the biodiversity of our oceans. For more information, visit: www.veramaris.com

Veramaris 是帝斯曼与赢创的合资产业，致力于从普通海洋藻类中提取欧米茄 3 脂肪酸 EPA 与 DHA。由于两个母公司共同拥有一个愿景：通过利用海洋资源—天然海洋藻类，来保护海洋生物，位于荷兰代尔夫特的 Veramaris 于 2018 年正式成立。通过在美国内布拉斯加州布莱尔的工厂进行大规模发酵，Veramaris 生产的藻油富含两种重要的脂肪酸欧米茄 3EPA 与 DHA，使得它的合作伙伴可以不再依赖于野生捕捞鱼类的同时满足市场日益增长的对动物蛋白的需求。Veramaris 在微藻类中提取的欧米茄 3 可以高质替代传统饲料中的野生鱼类，从而满足可持续发展的要求。给动物直接喂养 Veramaris 生产的欧米茄 3 油可以保护海洋栖息地与维护海洋的生物多样性。详情请浏览：www.veramaris.com

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The goal of the F3 Fish Oil Challenge is to accelerate the availability of cost-competitive, viable alternatives to fish oil that provide the essential nutritional components for fish that at the same time help reduce demand for wild-caught fish feed and enhance food security. The contest is sponsored by Future of Fish Feed (F3), a collaborative effort between NGOs, researchers, and private partnerships to accelerate and support the scaling of innovative, alternative aquaculture feed ingredients. To learn more, visit: <http://www.f3challenge.org/>.

F3“非鱼基”鱼油挑战赛旨在加速生产性价比高、可行性强的“非鱼基”鱼油原料。这些鱼油替代原料能够满足养殖鱼类的营养需求，同时帮助减少对野生鱼类的依赖，提高全球粮食安全保障。本次挑战赛由 Future of Fish Feed (F3)赞助。F3 由非政府机构、科学家、私营公司合作成立，致力于支持与加速创新型水产养殖饲料和替代原料的规模性生产。更多详情请浏览：<http://www.f3challenge.org/>.

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