

Hi, just a reminder that you're receiving this email because you have expressed an interest in Marine Bio-Technologies Center of Innovation. Don't forget to add mmiller@mbcoi.net to your address book so we'll be sure to land in your inbox!

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A Nexus for Marine Biotechnology Supporting the Blue Economy

MAY 2016

WHY MBCOI?

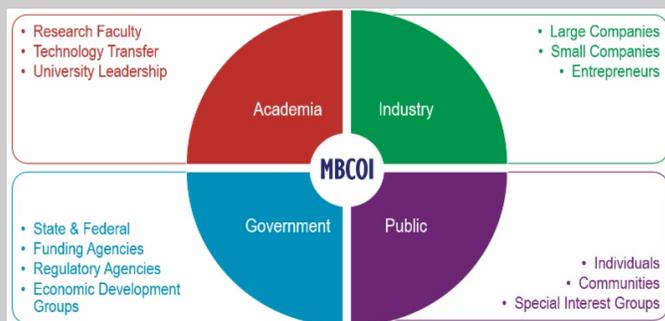
At MBCOI we are passionate about the development of marine bio-resources in a sustainable, environmentally friendly way to address the global challenges of a burgeoning population. By 2030, the global population is expected to exceed eight (8) billion and will require 30% more water, 40% more energy, and **50% more food to survive**. The Food and Agriculture Organization of the UN (FAO) projects that by 2030, **AQUACULTURE**, one of the fastest growing methods of producing food in the world, will be responsible for almost two-thirds of the fish we eat.

HOW do we drive our success?

Marine biotechnology, sometimes referred to as **BLUE BIOTECHNOLOGY**, is a relatively new but rapidly growing sector that can be described as the translation of basic marine science into products and services that impact living organisms for the benefit of society, the environment, or economic development. While some limit marine biotechnology to marine-based biochemicals, MBCOI has a much broader vision to **'fathom the opportunities'** that includes non-obvious applications of marine-based discoveries in sectors such as food, energy, and health. By combining a regional focus with a global perspective, MBCOI serves as the **NEXUS** for information, collaboration, and commercialization of marine biotechnologies among our stakeholders, both domestically and internationally.



MBCOI's strong subject-matter expertise and rich extended network enables us to identify opportunities for commercialization of marine biotechnology in other sectors that might otherwise be overlooked. For **ACADEMIA**, we facilitate a broad range of scientific collaborations, identify non-obvious commercial applications of ongoing



research in adjacent fields, and establish academic-industry partnerships that can lead to commercial development of inventions and technologies. For

INDUSTRY, we connect entrepreneurs and small

companies to our network of

global stakeholders to maximize value for their promising or cutting-edge technologies or products. For large companies we are a trusted partner and source of expertise, new technologies and products needed to maintain healthy pipelines. In the **GOVERNMENT** sector, MBCOI drives the promotion of NC's strengths in marine science to maximize its economic wellbeing through management of all marine bio-resources. Finally, MBCOI serves the **PUBLIC** as the go-to resource for information on marine science in NC and beyond.

WHAT do we offer our stakeholders?

MBCOI offers support to its stakeholders, facilitates collaboration with partners, and empowers our stakeholders to gain industry partnerships. **We are currently working on a number of ventures in the [Aquaculture & Seafood](#) and [Genomics](#) sectors.** If you would like to learn more, please contact **Dr. Roy Carter** (rcarter@MBCOI.net) or visit our website www.MBCOI.net.

Recently announced collaborations

[CRBM](#) Quebec: A formal signing ceremony took place at the international BioMarine Business Convention held in Wilmington, NC in October 2015. MBCOI and CRBM are working together in aquaculture and other marine biotech.

[Shannon ABC H2020](#), Ireland: MBCOI was recently appointed as an advisor to represent US interests in marine biotech, and smart algae integrated bio refineries.

[iBioIC](#), Scotland: MBCOI is a new member of this cluster, one of eight Centre's funded by the Scottish Funding Council and supported by Scottish Enterprise and Highlands and Islands Enterprise.

[NC Sea Grant Blue Economy](#): MBCOI assisted with a statewide survey to assess opportunities to better align future growth in North Carolina's ocean economy with environmental health.

Stakeholder News

[Kepley Biosystems](#) is working in the field of synthetic bait and has demonstrated that its breakthrough technology is an eco-friendly and effective replacement for traditional, biologically based bait material. After winning a competition for a \$750,000 NSF phase II grant in early March, Kepley, one of 50 winners of the grant, plans to commercialize its product upon obtaining alternative funding.

[Sandbar Oyster Co](#) recently applied for an [NCIDEA](#) grant and has made it to the semifinalist stage. The company's goal is to provide high quality oysters for consumer markets and bulk oysters for habitat restoration, shoreline protection, water quality enhancement and more. They are presently engaged in a large-scale field test funded by the UNC-CH Office of Technology Development testing the efficacy of the ephemeral substrates.

MBCOI's genomics partner, [Orion](#) Integrated Biosciences, has opened a new office in Manhattan to work more closely with Kansas State University scientists and capitalize on the future opening of the National Bio and Agro-defense Facility, or [NBAF](#).

News Snippets

Be a part of [Fish 2.0 2017](#): learn more about plans for partnering to grow the field of sustainable seafood businesses and investors - Email [Monica Jain](#).

[The NC Oyster Blueprint](#). The NC Coastal Federation recently launched a website intended to connect organizations, state agencies and universities that have a stake in restoring and protecting North Carolina's oysters.

The News & Observer's published an article by Jared Brumbaugh on how a scientist and a fisherman teamed up to solve the [NC oyster crisis](#).

Learn why Dr. William Fenical at the Scripps Institution of Oceanography searches the ocean for new [antibiotics](#).

Could developing a market for [plate-sized fish](#) in the US could "revolutionize" American aquaculture by opening it up to more marine fish? Read what Daniel Benetti, Director of Aquaculture at the University of Miami's Rosenstiel School of Marine & Atmospheric Science has to say about it.

The NC Biotechnology Center (NCBiotech) partnered with MBCOI to bring the 2015 BioMarine Business Convention to Wilmington, NC last October. A number of NC companies had an opportunity to present to an international audience during the Pitching Sessions - Read NCBiotech's coverage here [Oyster Boosters, Crab Custard In NC's BioMarine Catalog](#).

Mark your calendar

[Ag Biotech Entrepreneurial Showcase](#), May 18, 2016 at the North Carolina Biotechnology Center, RTP, NC.

[IntraFish Seafood Investor Forum](#), May 19, 2016 in New York City.

[The Alltech Ideas Conference](#), May 22, 2016, Lexington, KY.

[International Marine Biotechnology Conference](#) (IMBC), Aug 29 - Sep 2, 2016, Baltimore MD.

The XV International Symposium on Marine Natural Products, Aug 29 - Sep 2, 2016, Cumbuco, Ceara, Brazil. Contact Viviane@eventus.com.br

[BioMarine](#) Business Convention, 19-21 October, 2016, Oslo, Norway.

18th Annual International Conference on [Shellfish Restoration](#): Restoration in an Ever Changing World, 16-19 Nov, 2016, Charleston, SC.

Our Coasts, Our Future, Our Choice: [8th National Summit](#) on Coastal and Estuarine Restoration and 25th Biennial Meeting of the Coastal Society, 10-15 Dec, 2016, New Orleans, LA.

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