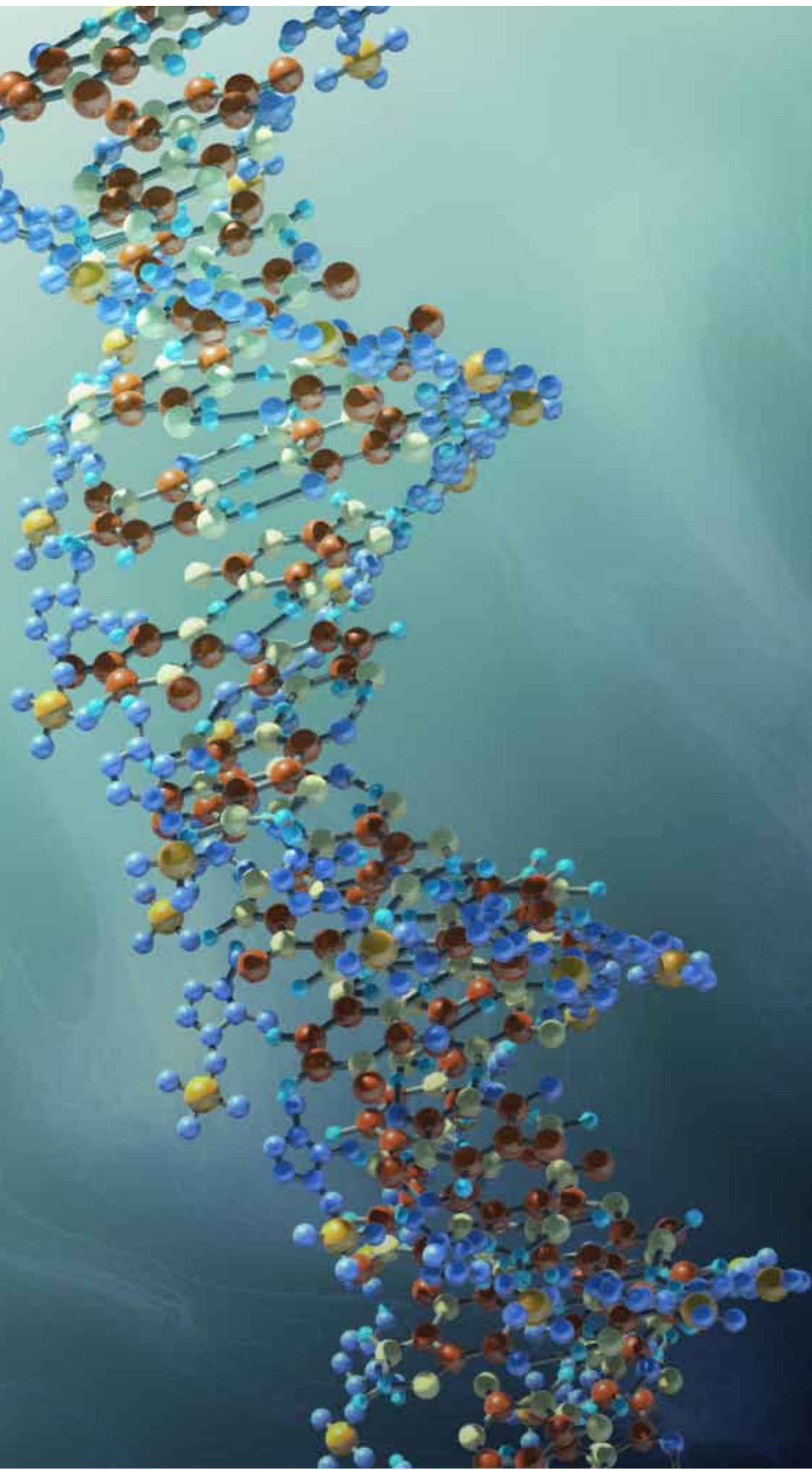


I N T E R N A T I O N A L



Milk Genomics Consortium





Mission

The International Milk Genomics Consortium (IMGC) provides a collaborative, interactive and pre-competitive platform for researchers and industry to accelerate the understanding of the biological processes underlying mammalian milk genomics and facilitates the transition of that knowledge into usable benefits for producers, manufacturers and consumers of dairy products.

IMGC members use molecular biology and cutting-edge genomics approaches to understand how the mammary gland is regulated, the basis for the molecules in milk production and the nutritional advantages they provide. Ultimately the knowledge gained will be translated into usable benefits for the industry to reduce the cost of milk production, improve and add value to milk and dairy products, and ensure the safety of milk and consumer perception of the dairy industry.

The project to sequence the bovine genome, led by an international team of over 300 scientists, is complete and the annotation process has begun. The bovine milk and lactation data are being aligned to mammalian genomes for the first time, providing a complete picture of the molecular evolution of milk and lactation. The data that will come from the bovine genome projects will be essential to managing the dairy industry in the future. The IMGC specifically contributed to the lactation companion project by providing networking opportunities for members to meet through the symposia and the Web portal as a tool for managing the data between collaborating members of the Consortium.

Key Objectives

1. Develop an up-to-date, interactive one-stop bioinformatics international Web portal to identify, annotate and curate lactation-specific genes in the milk genome responsible for milk synthesis, assembly, secretion, biological activity and nutrient provision. The portal includes public and Consortium-derived knowledge and provides a platform to link to novel research and development.

2. Organize an annual symposium to facilitate and promote communication and exchange among academics, industry and government in the developing field of milk genomics with invited speakers from the intellectual and innovative leadership in the areas of genomics, proteomics, metabolomics and bioinformatics.



IMGC Membership

IMGC membership and sponsorship provides a point of entry and a mechanism for industry, academia, research institutions/organizations and government agencies involved in milk genomics worldwide to work together on a regular basis. There is a strong value proposition for all members and sponsors. Sponsors invest money and members invest time and/or resources in the Consortium in return for a share in the knowledge gained. [For a complete list of member benefits, visit \[www.milkgenomics.org/benefits\]\(http://www.milkgenomics.org/benefits\).](http://www.milkgenomics.org/benefits)

Sponsoring Membership

Sponsoring membership is reserved for national and/or multi-national companies, private and/or government research institutes, and international organizations that wish to receive the full benefits of the IMGC and high visibility across IMGC programs. Sponsoring members have voting rights on all matters. The current sponsorship fee is USD \$25,000 per year.

Regular Membership

Regular membership is open to all scientists in the milk genomics community willing to share and contribute research data to the IMGC Web portal. This membership has no voting privileges and is not fee-based.

In-Kind Membership

This membership is available to organizations willing to provide valuable services and/or resources such as time and staff, and other in-kind services to the Consortium and its programs. In-Kind membership has no voting privileges and is not fee-based.

Symposium Sponsorship

The symposium is supported by the IMGC, as well as by individual symposium sponsors. Sponsorship is open to individuals, national and/or multi-national companies, private and/or government research institutes, and international organizations. Five levels of symposium sponsorship are currently available.

Platinum Sponsor • USD • \$6,000+

Gold Sponsor • USD • \$5,000

Silver Sponsor • USD • \$4,000

Reception Sponsor • USD • \$3,000

Speaker Sponsor • USD • \$1,500

Please see the back panel of this brochure for a list of symposium sponsorship benefits.



Areas of Research Interest & Related Industry Impact

Identify and compare genes associated with milk production and with the genetic variation of milk quality traits such as milkfat and milk protein.

Potential industry impact

- Development of novel genomic tools for accelerated and high performance breeding programs.
- Enable the use of natural genetic variation in milk production and milk quality traits to produce value-added milk, e.g., milk more suitable for cheesemaking or with specific properties to enhance human health.

Compare milk and lactation phenotypes between mammalian species to speed genetic discovery for improved lactation performance in the dairy cow and to identify valuable bioactives in bovine milk.

Potential industry impact

- Enhanced value-added new dairy products with health-providing bioactives that have widespread applications from infant formulas to supplements for human food and animal feeds.

Proteomic approaches to describe metabolic adaptation to changing environments: systemic identification of all variable milk components important to supporting a proper environment for fermentative bacteria.

Potential industry impact

- Tools for better and inexpensive selection of LAB strains for cheese and fermented dairy product manufacturing.

Comparative genomics to identify genetic features that enable probiotic bacteria to thrive in dairy and utilize milk components.

Potential industry impact

- Strategies to deliver optimized probiotics through milk and dairy products for human consumption and animal feeds.

Genome sequencing to identify markers to track pathogens/spoilage bacteria in milk and dairy products.

Potential industry impact

- Development of rapid and accurate diagnostic tools for surveillance of track pathogens/spoilage bacteria.

Develop high throughput analytical assays to systematically annotate structure and function of bioactive dairy components. Generate the next generation of value-added dairy ingredients enriched in bioactive peptides, glycolipids and oligosaccharides.

Potential industry impact

- Broaden and strengthen nutrition-related claims associated with milk and dairy components.
- Improve functionality of dairy products by increasing the bioactive components in dairy.
- Improve manufacturing benefits by identifying new accurate tools for value-added milk component isolation and designing novel dairy products.

Metabolic approaches to determine the health benefits provided by milk and enhanced dairy products.

Potential industry impact

- Inform novel formulation of enhanced dairy products with demonstrable health benefits to the consumer such as amplifying satiety signals found in milk to combat obesity and accompanying metabolic disorders.

Identify genes and gene polymorphisms associated with improved animal health, and resistance to specific diseases such as mastitis in dairy cows.

Potential industry impact

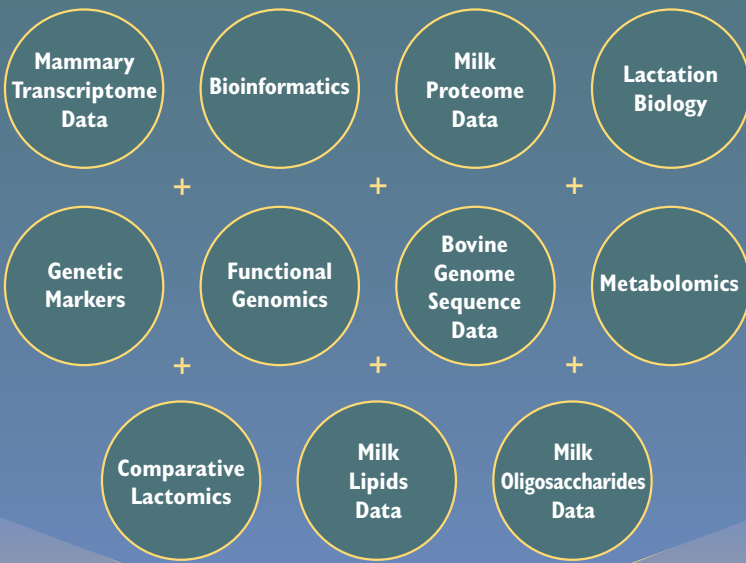
- Improve lifelong animal health and welfare by decreasing milk production losses due to disease.
- Ensure consumer confidence in the wholesomeness of milk and dairy products by preventing and/or eliminating animal diseases.

Identify genes associated with lactation energy efficiency (ability to convert low-energy grass and/or feed into high-energy milk) in dairy cows using functional genomics and single nucleotide polymorphisms to accelerate breed improvement.

Potential industry impact:

- Improve overall sustainability by decreasing the environmental footprint of dairy cattle through lower greenhouse gas emissions.
- Reduce cost of milk production.

Milk Genomics Information From Contributing Sources Adds To The Discovery And Applied Knowledge Base



IMGC Web Portal

Creates applied knowledge and new insights for the benefit of the dairy industry and consumers

Potential Industry Outcomes

- ✓ Increased productivity and efficiency
- ✓ Reduced environmental footprint
- ✓ Improved animal health and welfare
- ✓ Improved and added value to milk and dairy products
- ✓ Ensure the safety of milk and consumer perception of the dairy industry



Organization and Management

The Consortium is an unincorporated, nonprofit entity financed by sponsoring member organizations and organized into three bodies: management, steering committee (SC) and scientific advisory committee (SAC).

Management

The Consortium is managed by the California Dairy Research Foundation (CDRF), a nonprofit corporation that oversees the research activities of the California dairy industry in the areas of basic and applied dairy product research, nutrition and health, and dairy confidence.

The role of the CDRF is to manage and coordinate the Consortium's programs under the direction of the SC. This includes strategic planning and implementation, resource allocation and prioritization (budget and staff), communication, monitoring and reporting, IMGC Web portal content and technical development, and organizing the annual International Symposium on Milk Genomics and Human Health.

Steering Committee

The SC is the highest governing body, providing leadership and developing a basic framework and working principles for the Consortium. The SC also decides on all modification of the general policies and procedures and advises the SAC on scientific strategy.

Scientific Advisory Committee

The role of the SAC is to develop the scientific and technical content and priorities for the Consortium's programs.

Information

For more information about the International Milk Genomics Consortium, visit:

www.milkgenomics.org

Symposium Sponsorship

Speaker
Reception
Silver
Gold
Platinum

The symposium is supported by the IMGCC, as well as by individual sponsors. Five levels of sponsorship are open to individuals, companies, research institutes, and international organizations.

Speaker	Reception	Silver	Gold	Platinum	
	X	X	X	X	Company logo displayed in all symposium event areas
				X	Display table for company brochure/materials
				X	Company banner (provided by sponsor) displayed in main meeting room
X	X	X	X	X	Company logo in final printed program
X	X	X	X	X	Company logo on event Web site
				X	Symposium registration for four attendees or more
			X		Symposium registration for up to three attendees
		X			Symposium registration for up to two attendees
X	X				Symposium registration for one attendee
	X	X	X	X	Recognition in public relations outreach and registration materials
	X	X	X	X	Sponsorship acknowledged during Welcome and Opening Remarks

Note: Customized sponsorships are available upon request.

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Sponsoring Members



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