

# ***International Biomarker Discovery Consortium Conference***

**Fred Hutchinson Cancer Research Center**

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## ***Establishing a Biomarkers Discovery Team in Mexico***

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# ***National Institute of Genomic Medicine, Mexico***

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- **The 11th NIH of Mexico, funded in 2004**
- **Goal: To conduct translational research and training programs in genomic medicine**
- **Current research in obesity, cardiovascular, cancer, pharmacogenomics, population genomics, autoimmune diseases**
- **Academic collaborations within Mexico and abroad**



# ***INMEGEN: Initial Research Components***

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## **Research areas**

- **Metabolic: Diabetes and Obesity**
- **Cardiovascular**
- **Infectious**
- **Cancer**
- **Pharmacogenomics**
- **Genomic structure of the Mexican population**

## **Support**

- **Committees of Research, Ethics and Biosecurity**
- **Genotyping unit**
- **Expression analysis**
- **Bioinformatics**
- **Intellectual property**
- **Business incubator**

# ***Initial Actions to Establish a Biomarkers Discovery Team in Mexico***

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- ID Proteomics facilities in Mexico and US. Site visits.
- Initial Proteomics laboratory
- \$1M USD for initial equipment & personnel recruitment
- Bioinformatics unit
- Coordinated effort for patients and clinical samples
  - National Cancer Institute, National Institute of Respiratory Diseases, National Institute of Neurology & Neurosurgery, General Hospital of Mexico
- Analytical Chemistry
- Project support from Minister of Health

# ***Challenges to Initiate Operations of Biomarker Discovery Team***

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- **In the process of selecting initial cancer for this project**
- **Setting standard processes for high-throughput analysis**
- **Final definition of technology to be used**
- **Specific bioinformatics for proteomics**
- **Seeking mouse model component in Mexico**

