

Jian Han, MD., Ph.D.
Principle Investigator



601 Genome Way
Huntsville, AL 35806
T 256-653-4520

jhan@hudsonalpha.org

Profile

I am a scientist, inventor, and an entrepreneur.

As a scientist, my current interest is to develop tools and methods to study the link between late onset diseases (such as cancers and Alzheimer's diseases) and early infections.

As an inventor, I developed the award winning tem-PCR technology that make molecular differential diagnosis possible. The tem-PCR technology is a highly specific and sensitive multiplex PCR technology that also can be automated.

As an entrepreneur, I founded Genaco and grow it into a very successful molecular diagnostic company. Over the past 10 years, we build the team, developed the products and technology, open up the market. Through technology integration and collaboration, we provided our customers a complete solution for molecular differential diagnosis of many infectious diseases.

Experience

Principle Investigator, Hudson Alpha Institute for Biotechnology 2007-

Establishing a new field of scientific research, called "immunorepertomics". A method is developed to study the overall genetic make-up of a person's immune response to specific antigens. It could become the new platform for biomarker identification and lead to new diagnostics and treatment options.

R&D director, Molecular Diagnostics, Qiagen 2006-2007

Developing molecular differential diagnostic products, integrate technology platforms, directing pre-clinical studies, design clinical trials and guide the establishment of a quality system for product development and FDA approval.

CSO, President, Genaco, 2004-2006

Developed the tem-PCR technology and integrated it with Luminex xMAP technology platform to provide molecular differential diagnoses for many infectious syndrome. Products include panels (a panel is a test that identify 10-15 pathogens in one assay) for respiratory syndromes, blood stream infections, hospital acquired infections, and food safety, and avian flu detection. The tem-PCR technology and related products won us Frost & Sullivan Technology Innovation and Leadership award (2006) and Wall Street Journal Technology Innovation award (2007, 1st runner up, Medicine/Biotech).



CEO, President, Genaco, 1996-2004

Founded Genaco in 1996 to develop molecular diagnostic products for China. We were the first to introduce Down's syndrome prenatal screening and diagnostic products to China. Our products obtained Chinese FDA approval now become government mandate. While working in China in the field of medical genetics, we recognized greater products opportunity in infectious diseases and switched focus. During SARS outbreak, we work with Chinese partners to develop the first molecular differential diagnostic test for respiratory infections.

Director, Clinical molecular Genetics Laboratory, UAB, 1994-1996

After graduate school and post-doc training, I became an assistant professor in Pediatrics at UAB and serve as the director of clinical molecular genetics laboratory.

Education

University of Alabama at Birmingham, Ph.D. 1986-1991

SuZhou Medical College, China. MD., 1978-1983

Skills

Strong sense of what the market needs and wants. Capable of solve tough challenges to develop a complete solution by integratng available technologies or invent new devices.

Outstanding communication skills and can motivate a team to achieve extrodinary goals.

Referrals

Dr. Wayne Finley (wfinley1942@charter.net), former Chair of Medical Genetics Dept at UAB.

Mr. Dennis Grimaud (grimaud8@aol.com), former CEO of Genaco.

Mr. Jim Hudson (jimhudsonjr@mac.com), President Hudson Alpha Institute of Technology.

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