

Resource Summary Report

Generated by [RRID](#) on Aug 12, 2026

Institute for Advanced Biosciences

RRID:SCR_008526

Type: Tool

Proper Citation

Institute for Advanced Biosciences (RRID:SCR_008526)

Resource Information

URL: <http://g2d2.ogic.ca>

Proper Citation: Institute for Advanced Biosciences (RRID:SCR_008526)

Description: The Institute for Advanced Biosciences, Keio University, is an academic research institute pioneering the new life science field of Systems Biology, using both experimental and computational biology. There are several groups working in collaboration, focusing mainly on genome biology and engineering, genome design and synthetic biology, metabolic engineering, proteomics, metabolomics, RNA biology, bioinformatics and computational biology. Using cutting-edge technologies, intracellular components can be analyzed comprehensively to construct computer simulation models that can find numerous applications in fields such as biomedical, environmental, and agricultural science. Experimental and computational facilities are located in Tsuruoka, Yamagata prefecture, in northern Japan while the SFC campus, in the Tokyo area, hosts the bioinformatics laboratory and most undergraduate curricular activities. IAB has successfully attracted very significant funding for multiple research projects from major funding organizations including the New Energy and Industrial Technology Development Organization (NEDO) (2002-2006), for bioprocesses and cell modeling, the Ministry of Education, Culture, Sports, Science and Technology (MEXT) and its COE network, for biosimulation and systems biology (2003-2008), the Japan Science and Technology Agency (CREST, 2004-2009) for simulation and systems biology, the Ministry of Health, for cancer biology (2005), as well as from Yamagata prefecture and Tsuruoka city, 2001-2006 and 2006-2011). Over the past few years, IAB scientists have accumulated several awards including the 1st prize during the 5th Japan Biotechnology Business Competition (2005), the Minister of State for Science and Technology Policy award in recognition for industry-academia-government collaboration performance (2004), the IBM Shared University Research Award (2003), and the Nihon Kogyo Shimbunsha Award (2003) during the 17th Leading-edge Technology for Originality and Creativity. Sponsor. This study was supported by a grant from the Global COE Program entitled, Human Metabolomic Systems Biology and by a Grant-in-Aid for Scientific Research on Priority Areas Systems Genomes and on Lifesurveyor from the Ministry of Education, Culture, Sports, Science and Technology of Japan as well as research funds from the Yamagata

prefectural government and the City of Tsuruoka.

Synonyms: IAB

Resource Type: data or information resource, portal, database, organization portal

Resource Name: Institute for Advanced Biosciences

Resource ID: SCR_008526

Alternate IDs: nif-0000-30595

Old URLs: http://www.ogic.ca/projects/g2d_2/

Record Creation Time: 20220129T080247+0000

Record Last Update: 20260812T044143+0000

Ratings and Alerts

No rating or validation information has been found for Institute for Advanced Biosciences.

No alerts have been found for Institute for Advanced Biosciences.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#).

Mori H, et al. (2023) Aberrant Expression of GABA-Related Genes in the Hippocampus of 3xTg-AD Model Mice from the Early to End Stages of Alzheimer's Disease. Journal of Alzheimer's disease : JAD, 94(1), 177.

Tremblay K, et al. (2008) Genes to diseases (G2D) computational method to identify asthma candidate genes. PloS one, 3(8), e2907.

Perez-Iratxeta C, et al. (2007) Update of the G2D tool for prioritization of gene candidates to inherited diseases. Nucleic acids research, 35(Web Server issue), W212.

Zhu M, et al. (2007) Candidate gene identification approach: progress and challenges. International journal of biological sciences, 3(7), 420.

Tiffin N, et al. (2006) Computational disease gene identification: a concert of methods prioritizes type 2 diabetes and obesity candidate genes. Nucleic acids research, 34(10), 3067.

van Driel MA, et al. (2006) Bioinformatics methods for identifying candidate disease genes. *Human genomics*, 2(6), 429.

Perez-Iratxeta C, et al. (2005) G2D: a tool for mining genes associated with disease. *BMC genetics*, 6, 45.