

Bioinformatics



Farming, Food and Health. **First**™

Te Ahuwhenua, Te Kai me te Whai Ora. Tuatahi

**Number one
best value for
your business**

Who is AgResearch?

AgResearch is New Zealand's largest Crown Research Institute. With an outstanding team of around 1000 scientists, engineers, technicians and support staff, we offer a wealth of experience and expertise in pastoral farming and biotechnology research and development.

Bringing together some of the best scientific brains with cutting-edge technology and facilities, we sit among the world's leading agricultural research institutes, with a track record of conducting excellent scientific research, and creating world-class innovations. Through the commercial arm of our organisation, we have developed a reputation for delivering innovative, client-focussed solutions to companies around the world.



“We are committed to providing top quality data analysis, consultancy and support – on time, and within budget.”

DR ANETTE BECHER

AgResearch Bioinformatics Team Leader



RESEARCH

BIOINFORMATICS

Why are we the number one bioinformatics team for your business?

- Our tailored pre-experiment consultancy service helps you select the best technology to answer your scientific question, saving you time and money
- We are solely dedicated to delivering data analysis of outstanding quality, within your budget and your time frames – we do not have our own bioinformatics research agenda
- Our team integrates individual expertise in biology, statistics and IT to deliver you the best outcome
- As biologists, we speak your language to provide outputs that address biological questions
- Being embedded in a large research organisation enhances our depth of biological knowledge through constant interaction with various biology science teams
- We work in collaborative partnership with you, giving ongoing guidance and support, even after the analysis has been delivered
- Our service is highly price competitive
- We speak several European languages

These people think we're the best

Client: The University of Sydney, Australia

Project: Worked with the AgResearch Bioinformatics Team in the five-year \$30M SheepGenomics (SG) program, and ongoing work with the International Sheep Genomics Consortium (ISGC).

Genetics Laboratory Professor Frank Nicholas: "The AgResearch Bioinformatics Team has world-class expertise and experience. I can't think of any aspect of bioinformatics where SG felt that

it was not receiving the best service available anywhere in the world."

"The team has not only made major contributions in gathering, editing, storing and analysing enormous quantities of sequence data, but also simulated a range of possible strategies at every step along the way, providing invaluable guidance as to how the ISGC can operate most cost-effectively."

Client: The University of Auckland, New Zealand, and Nutrigenomics New Zealand

Project: AgResearch provides bioinformatic services to Nutrigenomics New Zealand, a group looking at how foods and food components affect health at the molecular genetic level.

Head of Nutrition, The University of Auckland; and Programme Leader, Nutrigenomics New Zealand Professor Lynnette R. Ferguson: "An essential part of the ambitious programme set up for the New Zealand national Nutrigenomics Centre (Nutrigenomics New Zealand) involves a

substantial database. This integrates data from 55 individuals across New Zealand, and needs to be maintained accurately, with data easily retrieved and managed. The ability to utilise the AgResearch servers, and the involvement of the AgResearch experts in establishing systems for data analysis has been an important part of the continuing success of this important Centre."

Client: University of Otago, Dunedin, New Zealand

Project: Seeking to understand how honey bee workers become Queen bees through genetic expression profiling.

Director of Genetics Otago Dr Peter Dearden: "The difference to our research through teaming up with AgResearch's Bioinformatics Team is like night and day. They have turned masses of data we didn't know what to do with into a fantastic resource to help answer our scientific questions."

"They are right on the cutting-edge of bioinformatics, giving us expert advice on the best technology and tools to make sense of our data. They have worked hard to meet our deadlines, and certainly worked to our budget very well."

"They have been great at finding solutions for us – we tell them exactly what we want and they have delivered."



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