

## Application areas for TheGMax

Normal Data Content	Application	Target
Continuous, categorical Text, numeric, pateint data in same dataset	Functionalgenomics Metabolomics Genetics	<ul style="list-style-type: none"> <li>- Sequence information on proteins or nucleic acids</li> <li>- Expression profiling of RNA, proteins or metabolites</li> <li>- Microarray content design &amp; analysis</li> <li>- paternity testing</li> </ul>
Continuous, categorical, text , numeric in same dataset in same dataset	Cellomics	<ul style="list-style-type: none"> <li>- Study of intracellular events &amp; pathways</li> <li>- Man on a plate content optimization</li> </ul>
Continuous, categorical, text,numeric, epidemiological data Patient physiological data in same dataset	<ul style="list-style-type: none"> <li>- Secondary screening</li> <li>- ADME</li> <li>- Toxicological profiling</li> <li>- Drug Safety studies</li> <li>- Virtual drug discovery</li> <li>- Blood Brain Barrier modelling</li> </ul>	<ul style="list-style-type: none"> <li>- Activity of a sequence or as a motif or promoter</li> <li>- Personnel medicine</li> <li>- QSAR</li> </ul>
Continuous, categorical, text,numeric in same dataset	Strain selection & optimization	Maximize yeilds of crops and micro-organisms
Continuous, categorical, text, numeric, epidemiological data, socio economic data etc in same dataset	Pharmacogenomics	<ul style="list-style-type: none"> <li>- Predictive medicine</li> <li>- Prognostics</li> <li>- Diagnostics</li> <li>- Presence or liklihood of disease</li> <li>- Susceptability/ risk analysis to genetic disorder or disease</li> </ul>
Continuous, categorical, text, numeric in same dataset	Chemometrics	<ul style="list-style-type: none"> <li>- Mass spectrometric data analysis</li> <li>- Mass spectrometric instrument optimization</li> <li>- Analysis of dirty samples</li> <li>- assay design optimization</li> <li>- feature extraction</li> <li>- Molecular dynamics</li> <li>- Kinetic modelling</li> </ul>
Continuous, categorical, text, numeric, other data forms	Behavioural sciences	Psychological profiling Psycho logical testing
Continuous, categorical, text, numeric, other data forms	Engineering & Aerospace	Differential imaging Signal analysis System time to failure Causes of failure
Continuous, categorical, text, numeric, other data forms	Physics, Astronomy, Geography & Meteorology	Oil prospecting Environmental impact studies Stellar classification Particle event modelling