



Matís ohf. / Icelandic Food and Biotech R&D

Vínlandsleið 12, IS-113, Reykjavík, Iceland

Phone: (+354) 422 5000 - Fax: (+354) 422 5001

www.matis.is

Department of Biotechnology and Biomolecules

Guðmundur Óli Hreggviðsson, Research Group Leader, gudmundur.o.hreggvidsson@matís.is

Sólveig K. Pétursdóttir, Project Manager, solveigp@matís.is

Snædís H. Björnsdóttir, Research Scientist, snaedis@matís.is

Currently used techniques:

- General microbiology, isolation and enrichments with an emphasis on thermophiles
- Cultivation and handling of aerobic and anaerobic bacteria, microalgae and cyanobacteria
- Molecular biology, PCR, cloning, expression, protein purification, blotting, etc.
- ABI and 454 sequencing, phylogenetic analyses and bioinformatics
- Genetic engineering of thermophilic bacteria
- Cell sorting with FACSAria II (newly implemented)
- Elemental analysis, in collaboration with the Chemical Department of Matís

What we would like to focus more on:

- Geomicrobiology, including *in situ* chemical analyses
- Microscopy, including SEM-EDS, TEM and FISH
- Metagenomics and functional gene analysis
- Integration of biological and chemical data

Projects using the above mentioned techniques include:

- Microbial diversity surveys
- Pan-Thermus, the divergence of species
- Geomicrobial research on thermal sites in Iceland