

# Bioinformatics from Experts - Get the Best Out of Your NGS Data

Numerous Validated Pipelines  
Supportive Bioinformatics Experts for Backup  
Rapid Turnover and Attractive Prices

## Introduction

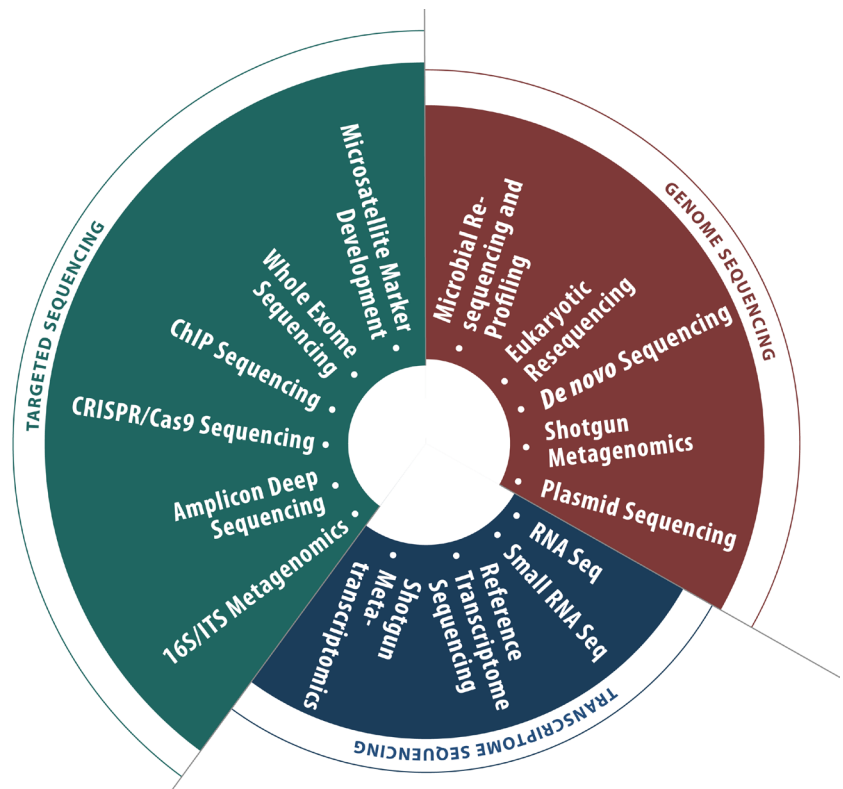
Are you looking for an experienced NGS sequencing provider who can generate reliable sequence data and also has the capabilities to get the maximum out of your data? Then consider outsourcing your sequencing project to Microsynth

(from the entire project to **bioinformatics only**, everything is possible). Microsynth has developed numerous bioinformatics pipelines to analyze and enrich NGS data. Our NGS and bioinformatics experts will guide you all the

way from study design to elucidating the results if desired. Therefore, do not hesitate to contact us in case you need a **professional bioinformatics service** with a **rapid turnover time** at an **attractive price**.

## Overview of Microsynth's Bioinformatics Services

For the most common analysis problems concerning NGS data, Microsynth has modules in place which may already answer your questions or could be combined to do so. This way, individual workflows could be composed for reliable and rapid analysis of your data. Additionally, fully customized bioinformatics analysis may be provided if desired. Microsynth uses community-accepted, peer-reviewed open source software wherever possible. Standard data formats are utilized to facilitate publication and to enable downstream analysis, further deployment, and long-term usability of the data. Essential results are presented as an interactive and user-friendly HTML report to guide you through the data. As a consequence, our bioinformatics services will spare you the tasks of laborious low-level data handling, parametrization, and of acquiring the necessary computational power, and instead provide you with state-of-the-art bioinformatics expertise to handle NGS projects in a professional manner.



# Why Approach Microsynth for a “Bioinformatics Only” Service?

Reanalyze Data with Up-to-Date Software & Methods  
Validate Own Pipeline by an External Provider  
Overcome Bottlenecks in Manpower & Time

## Introduction

**Focus on science**, not tools. Whether in business, manufacturing or scientific research, success is made possible by alignment of resources toward an identified goal. Each step in a process takes time and money, and a wrong step wastes these resources without achieving results.

For the genomics researcher, data is only the raw material, but knowledge is the product being created. Therefore, tools

that simplify front-end or back-end steps free the researcher to **focus on knowledge output**, such as discovery, learning or creative thinking. Microsynth is continuously developing and validating state-of-the-art bioinformatics tools, and our experts support researchers in getting the best out of their NGS data. Our experience and strict adherence to quality standards ensure confidence in the obtained results.

Here are the three major reasons why researchers approach us for a “bioinformatics only” service:

1. to reanalyze “old data” with up-to-date software and methods
2. to validate an own pipeline by an external provider
3. to overcome bottlenecks in human resources and/or time

## Reanalyze Data with Up-to-Date Software & Methods

Good science is continuously aiming at improving the interpretation of data by using up-to-date analysis software and methods. The pace of innovation in NGS technologies and bioinformatics pipelines is extremely fast. Hence, analysis of NGS data in the past may have resulted in a certain level of useful information, but in most cases it did not reach the potential that would be possible today. Prior to starting new expensive and laborious NGS experiments, it is advisable to think twice if there is a possibility to upgrade your previous data/experiment. Good examples are RNA-Seq projects with “old” Illumina reads which often experience an enormous boost if reanalyzed using our Differential Gene Expression pipeline on current reference genomes.

## Validate Your Own Pipeline by an External Provider

Want to push your metagenomics (e.g. 16S) analysis forward? Feel free to validate your own work flow with our mock community-validated metagenomics pipelines.

Since the comparison of analysis pipelines is a complex field and a fair comparison is tough, an important first step is to clearly define the expectations as to the common outcome including accepted tolerances.

Our experts will guide you through the whole process to ensure confidence in the results.

## Overcome Bottlenecks in Manpower & Time

You have a lack of human or computational resources and/or are in need of an urgent analysis? Or you want to profit from our experience in bioinformatics and want to speed up your workflow starting from pre-analyzed data? Just let us know your interests in experimental design, outsourcing and desired timeline. Along with the analysis, you will receive a transparent report on how the analysis was conducted.