

COMPUTEBIO LLC

CONTRACT BIOINFORMATICS

Maksim Struchalin, CEO



Our mission

USE BIOINFORMATICS TO
MAKE DNA WORK ON YOUR BUSINESS

WHAT WE DO



Bioinformatics

Analysis of animal and human genome



Genomic breeding

Selection of the most productive animals



Software

Development of pipelines, Python, C++, Java.



Consulting

Prepare a comprehensive overview of possible solutions of your problem.

COMPETENCIES



Genomics

Sequence, SNPs, WGS, GWAS, Linkage, PRS, Structural variants, Single cell, Genome annotation, Imputation, Gene networks, Medical genetics, Metagenomics, Phylogenetics



Transcriptomics

DamID, MPRA, GFP, TRIP, Assembly, RNA Expression in tissues and single cells



Breeding

Genomic selection, Breeding value estimation, Animal models, ssBLUP, Bayesian methods, Parentage verification/discovery, Data collection and quality control, Software development



Immunology

Immunogenetics, Antibody engineering, Analysis of peptide sequences for solving problems of immunoinformatics



Data Science

Mass-spectrometric, Medical images processing (CT, MRI, X-ray), Analysis and modification of protein sequences



Drug design

Drug discovery/design, Virtual screening, Molecular modeling, docking, dynamics, QSAR, ADMET, Target prediction, Bioactivity, Cheminformatics, Drug Efficiency prediction

How we work



YOU EXPLAIN YOUR PROBLEM

Your company miss
some competencies
in genomics or need
more hands



WE PREPARE A DETAILED PLAN AND SIGN AGREEMENT

How we will solve it,
Time lines & cost,
Methods & software
References on
similar solution



DO WORK

We provide all the
necessary
competencies,
Form a project team



YOU GET THE PROBLEM SOLVED

Comprehensive report
with detailed
description of solution

Our clients

МИРАТОРГ

 **РУСАГРО**
Группа Компаний

 **ASPIRA**
WOMEN'S HEALTH

 **DIMITRA**

Encoded 
THERAPEUTICS

NOVEL
Software Systems

The 
Bioinformatics
CRO

 **Applied
Genomics**

 **LIC**
LIVESTOCK IMPROVEMENT

ThirtyFiveBio

 **BIOMEDICAN**

Our clients

МИРАТОРГ

Miratorg is the the biggest producer of beef meat in Europe

We develeped models to predict breeding values for animal selection

Testimonial

"...I can note the high professionalism in the field of Bioinformatics and Computational biology and compliance with the deadlines, which is very important"

Ekaterina Chernyaeva, Chief Scientist in Miratorg



DIMITRA



ThirtyFiveBio



Our clients

МИРАТОРГ

Dimitra is a Global Agtech company

We designed a system of animal data collection for the national breeding program



DIMITRA

Testimonial

"...contribution to the design and development of the system was instrumental in successfully delivering the project..."

Jon Trask, CEO at Dimitra









Applied Genomics

LIC
LIVESTOCK IMPROVEMENT

ThirtyFiveBio

BIO MEDICAN

EXAMPLES OF OUR PROJECTS

-  Developed custom chip for plant selection
-  Detected virus integration into monkey genome
-  Developed pipelines for structural variants for monogenic diseases
-  Increased detection of ovarian cancer on early stage
-  Developed pipeline for prediction of cardio disease risk
-  Found new genes for Restless Legs Syndrome
-  Designed a system for collection of animal data
-  Predicted meat bovine productivity

TEAM



**MAKSIM
STRUCHALIN**

CEO
PhD



**FAN
LIU**

Scientific advisor
PhD



**NATALIA
RIVERA**

Scientific advisor
PhD



**DMITRY
BAEV**

Scientific advisor
PhD



**DISTRIBUTED
TEAM OF FIFTY**

Bioinformaticians
Msc & PhD

Contacts

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