

Beginning to Unravel the Biological Drivers of ME

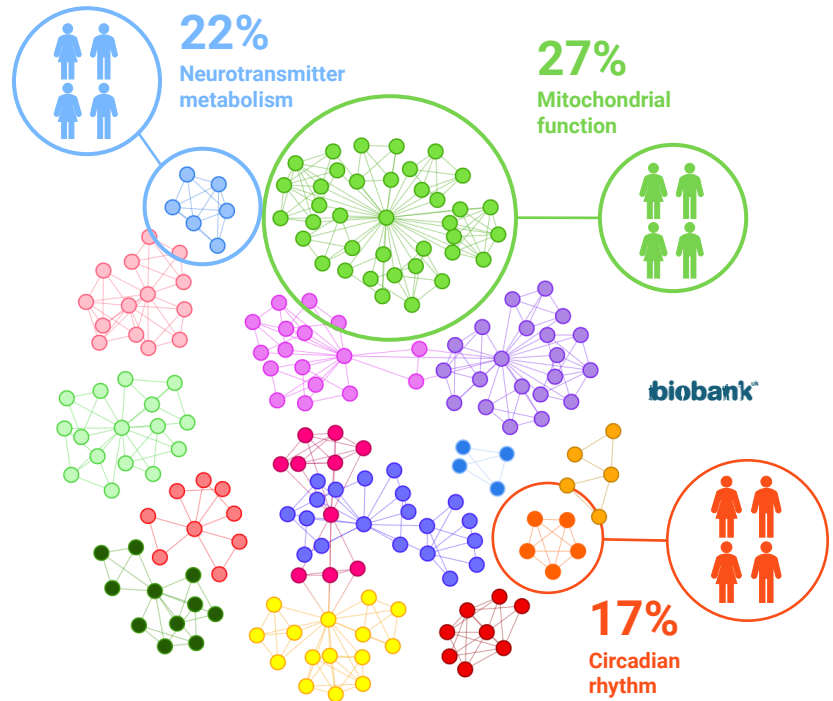
ME is a very complex disease that has many different causes and risk factors.

We have for the first time potentially identified some of the different genetic mechanisms causing ME/CFS (shown as colours) and used this to stratify patients.

We've validated that patients with specific underlying genes/mechanisms have symptoms that match this mechanism (e.g. fatigue vs autoimmune).

Only patients with the green mechanism will respond to a drug targeting this gene.

Patients with other disease mechanisms will not respond – making it essential to validate the biological basis of the disease.



We're currently replicating these results in DecodeME's much larger, better characterized patient populations as part of the LOCOME grant supported by Innovate UK. We're now aiming to:

- validate simple saliva/blood genotyping tests for ME, CFS and long COVID
- identify actively protective biology that may prevent people getting ME / help them recover
- identify and validate drug repurposing candidates that may help some ME patients



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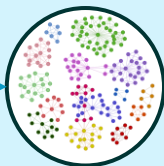
Decode **ME**
The ME/CFS DNA Study

LOC **ME**

ME/CFS
disease risk/protective signatures



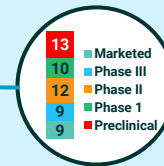
ME/CFS
mechanistic stratification



Candidate Selection
best fit of drug to mechanism/trial
(safe, well-tolerated / high prevalence)



Drug Repurposing Candidates
Pipeline of existing drugs for each
patient subgroup / mechanism



Clinical Validation precision**life** metro**dora**



Patient sampling,
surveys &
genotyping



Identification of patient's
disease risk/protective signatures
and disease mechanism/s



Patient Recruitment

- Identifying high-risk patients with specific mechanism
- Recommendation of therapy targeting patient's specific ME/CFS mechanism
- Recruitment criterion for repurposing efficacy trial



Efficacy Trial

Testing of repurposed
therapy targeting patient's
specific ME/CFS mechanism
(n of 30-50)



Approval

Regulatory approval
for therapy proved
efficacious in
ME/CFS



For more
information,
please follow the
link

We're recruiting 4,000 patients at Metrodora to validate the new diagnostic tests. We currently have 7 ME, CFS and long COVID drug repurposing candidates in active consideration for trials

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