



EUROMENE WG 2 on biomarkers

Objective: Development of a panel to allow synergistic use of individual biomarker depositories towards a common biomarker factory, supporting digitalisation in biomarker deployment and big data role in ME/CFS research.

Deliverables:

- **Guidelines for usage of infection-associated biomarkers**
- **Guidelines for usage of immunological biomarkers**
- **Evaluation scales of neurological symptoms usable in ME/CFS diagnostic**



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Tasks:

Survey in EU countries existing data on potential biomarkers in ME/CFS

- 1) Immunological**
- 2) infection-associated**
- 3) Neuro-imaging**



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Milestones:

- Survey data on existing biomarkers and detection approaches M12**
- Protocols of meetings – synchronisation panel and personalised care roadmap M43.3**

Deliverables:

- Guidelines for usage of infection-associated biomarkers in ME/CFS diagnosis;**
- Guidelines for usage of immunological biomarkers in ME/CFS diagnosis;**
- Evaluation scales for assessment of neurological symptoms associated with ME/CFS and usable in diagnosis.**



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Achievements M12

Survey on biomarker „European biomarker landscape“

REVIEW

[The European ME/CFS Biomarker Landscape project: an initiative of the European network EUROMENE](#)

Carmen Scheibenbogen, Helma Freitag, Julià Blanco, Enrica Capelli, Eliana Lacerda, Jerome Authier, Mira Meeus, Jesus Castro Marrero, Zaiga Nora-Krukle, Elisa Oltra, Elin Bolle Strand, Evelina Shikova, Slobodan Sekulic and Modra Murovska

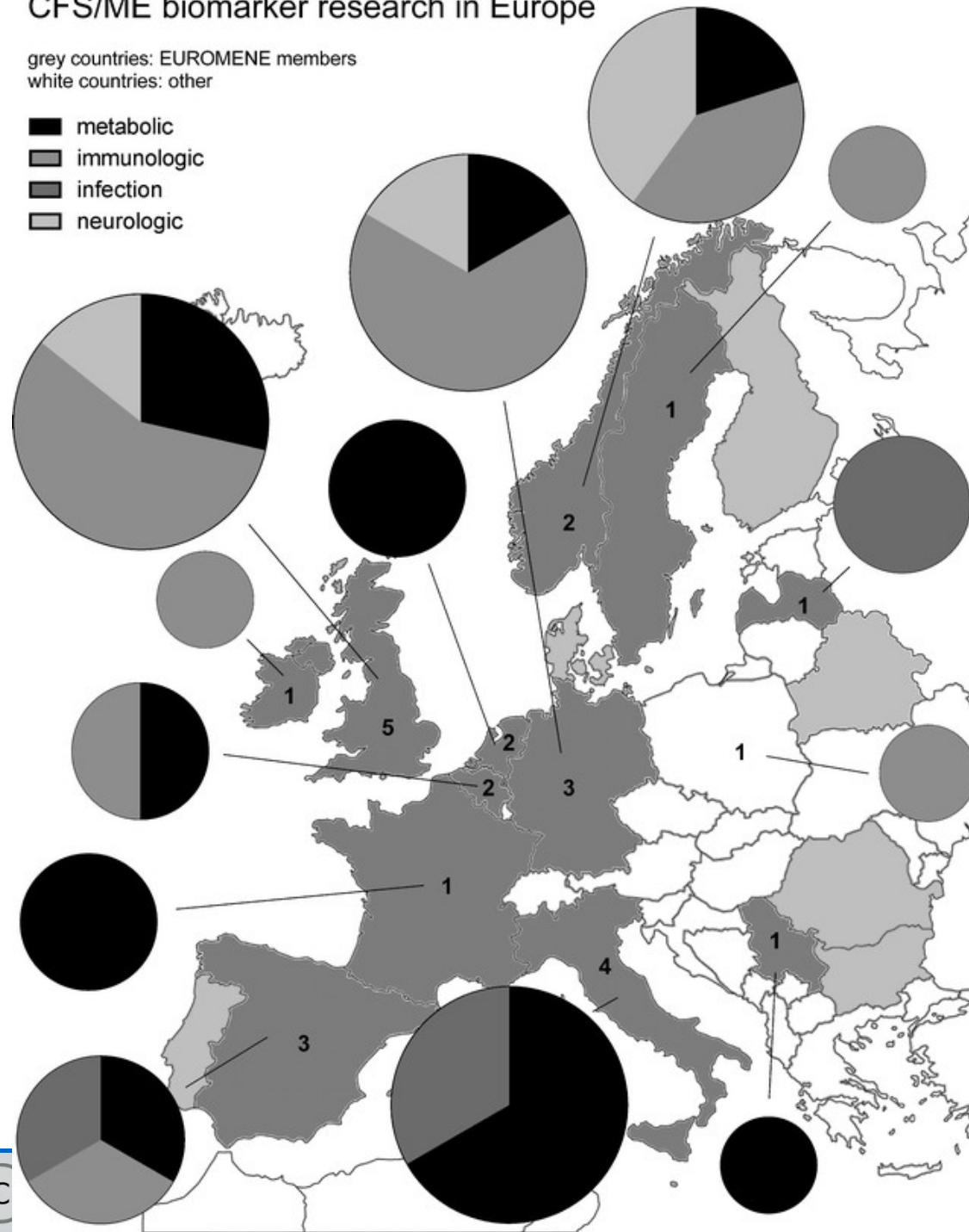
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CFS/ME biomarker research in Europe

grey countries: EUROMENE members
white countries: other

- metabolic
- immunologic
- infection
- neurologic





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Curent work in progress

Establish special interest groups

- Identify markers of interest
- Confirm in small/larger cohort studies
- Write reviews
 - Autoimmune markers (Carmen, Enrica, Julia, Jesus)
 - Persistent infection markers (Thomas, Zaiga, Bhupesh)
 - Genetic markers (Enrica)
 - Immune phenotype markers (Julia)
 - Complement markers (Henrik)
 - Metabolic (Jonas Bergquist)

Survey on Neuro-imaging in Europe (Jerome Authier)



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Biomarker Meeting in Sofia 8.2.2018

- **Presentation of achievements from interest groups and neuro-imaging**
- **Develop a roadmap for Task 4**

Task 4

- **To discuss and analyse the existing data on biomarkers usable for laboratory and objective clinical diagnosis of ME/CFS**
- **To promote synchronisation of biomarker panels and interpretation**
- **To evaluate digitalisation and big data capabilities**