The Matchmaker Exchange
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Connecting patients around the world to solve the N-of-1 challenge

Envisioned in 2013

www.matchmakerexchange.org
The Matchmaker Exchange

7 nodes make available unsolved patient data for matchmaking from 67 countries

Funding support by individual nodes
Matchmaker Exchange

44,500 patients

3,000+ contributors

500+ cases shared / week

7 (21) published (in prep)

Recent discoveries

HNRNPU
WDR26
PIGP
TRIT1
MME Data Sharing Goals

**Theme:** Federated network of sharing

**Needed standards:**
- Consent framework for data sharing
- Clinical and phenotypic data capture
- API for data exchange
Challenge 1

High false positive rate

sweet spot
Challenge 2

Community engagement
Challenge 3

Development of new approaches

Two-sided matching

One-sided matching

Zero-sided matching
MME Engagement with GA4GH to date

Clinical
  • Phenotype Ontologies

Data
  • MME API

Regulatory & Ethics
  • Consent codes
MME Engagement with GA4GH

Clinical & Phenotypic Data Capture
• Linkages to EMRs to enable clinical workflow

Discovery
• New approaches to matchmaking

Data security and Regulatory and Ethics
• Privacy protection, Registered access