european research initiative on CLL
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BCR IG SEQUENCE COLLECTION & ANALYSIS

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Project details:

Project lead by: CERTH/INAB (Greece)

Project Start date: 1 January 2018

20 participating centres

11 participating countries

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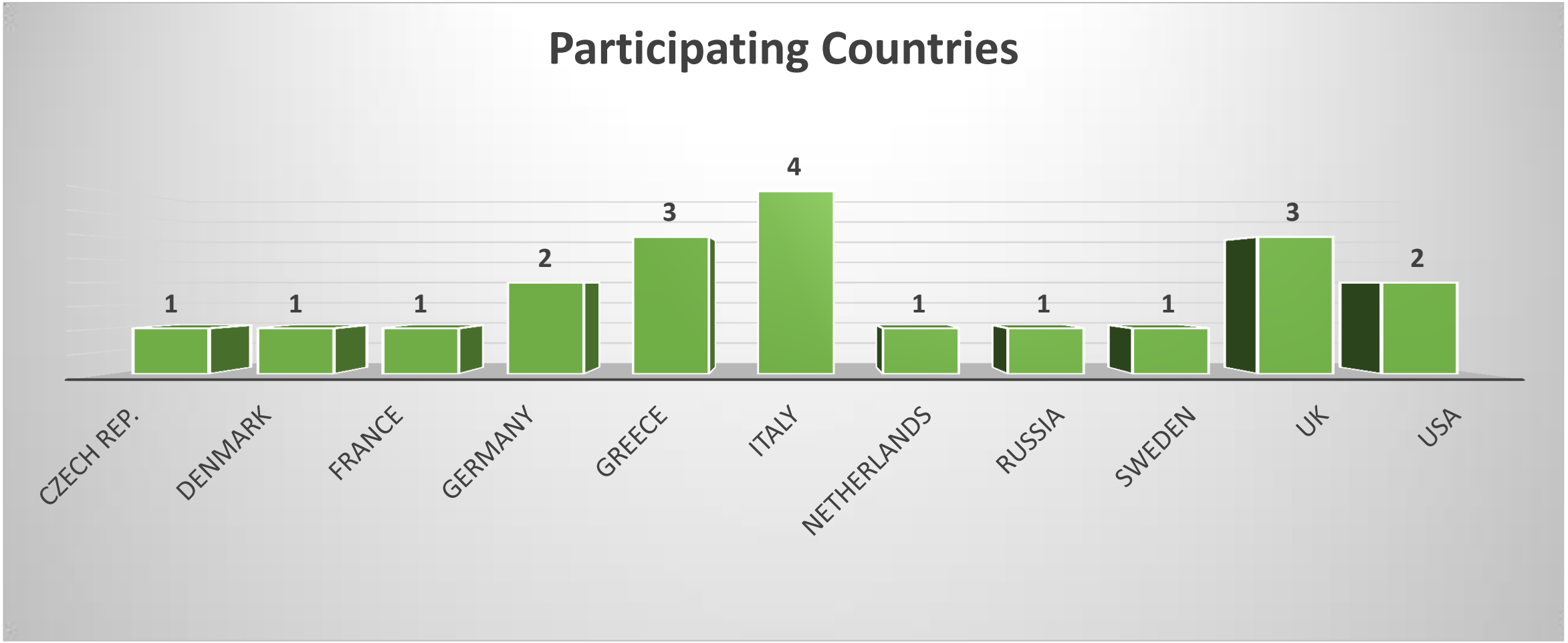

20 participating centres

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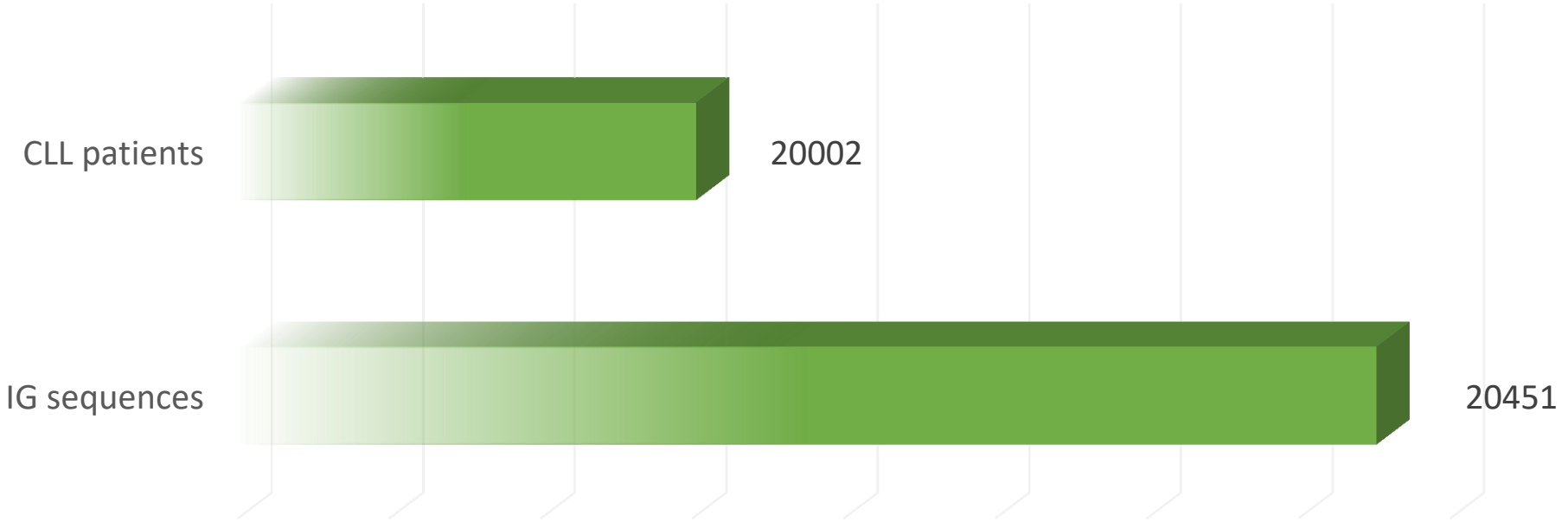

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20 participating centres

11 participating countries

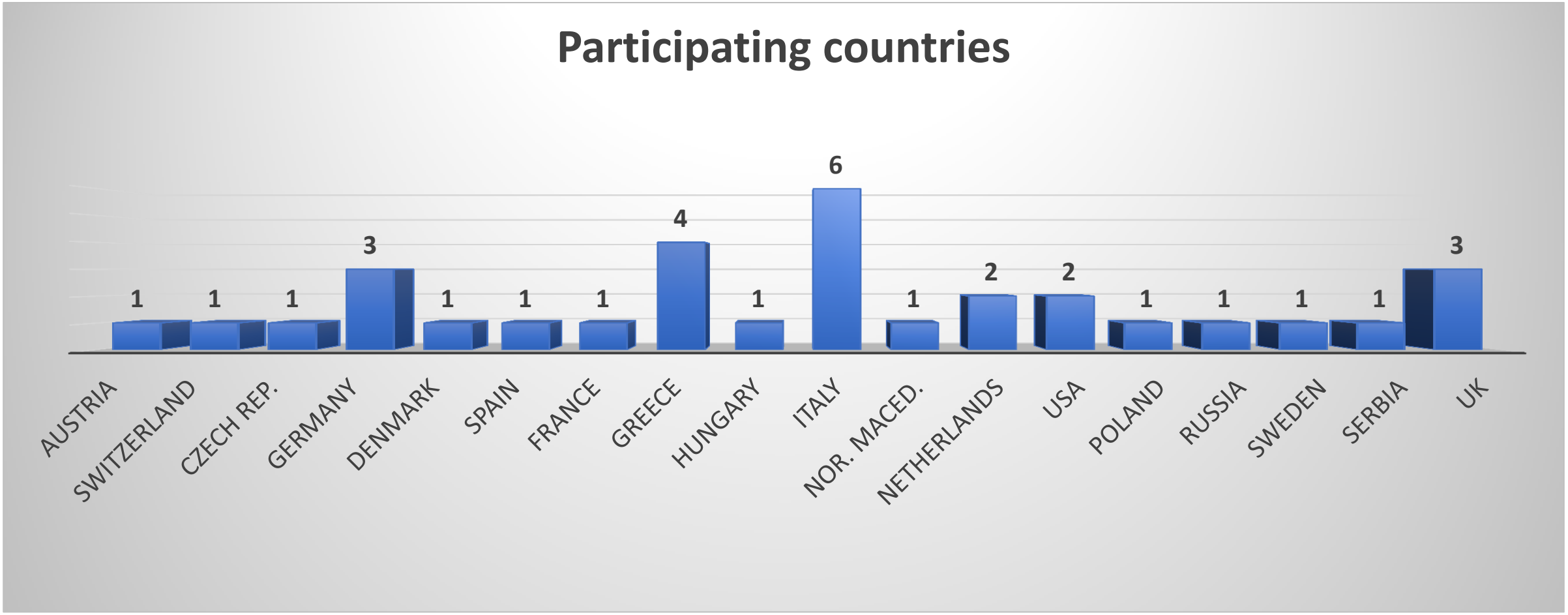
32 participating centres

18 participating countries

Im Muno Gene Tics Information system®
http://www.imgt.org

31 participating centres

18 participating countries



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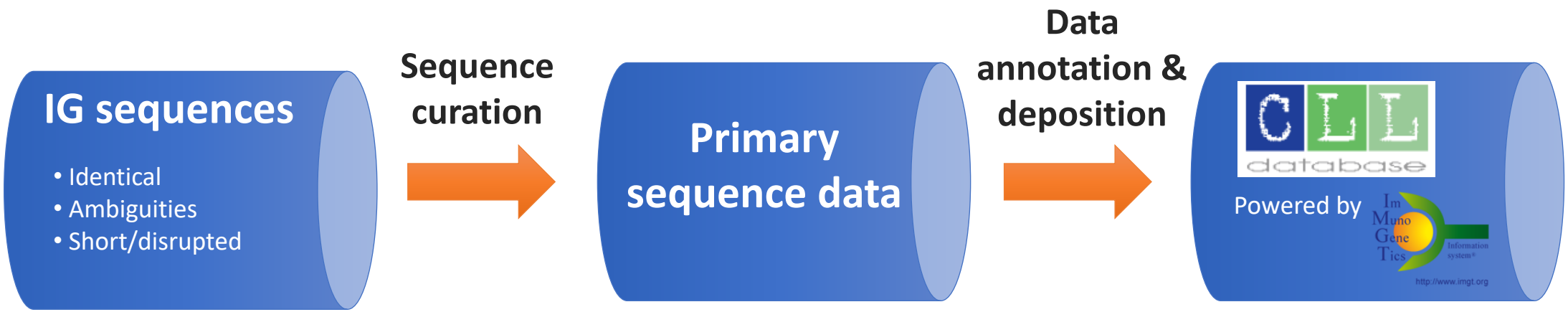
Phase 1: data collection, ✓

Phase 2: data curation, ✓

Phase 3: upload to the IMGT/CLL-DB, ✓



Members

The IMGT/CLL-DB group was founded by Chrysoula Belessi, Nicholas Chiorazzi, Frédéric Davi, Paolo Ghia, Marie-Paule Lefranc, Richard Rosenquist and Kostas Stamatopoulos.

Currently, **33 Institutions across the globe are members of the IMGT/CLL-DB group**:

- IMGT®, CNRS, Université de Montpellier, Montpellier, France
- Nikea General Hospital, Athens, Greece
- The Feinstein Institute for Medical Research, New York, USA
- Hôpital Pitié Salpêtrière, Paris, France
- Università Vita Salute San Raffaele, Milan, Italy
- Uppsala University, Uppsala, Sweden
- Karolinska Institute, Stockholm, Sweden
- Institute of Applied Biosciences, CERTH, Thessaloniki, Greece
- Medical University of Vienna, Vienna, Austria
- Masaryk University and University Hospital Brno, Brno, Czech Republic
- University Medical Center Schleswig Holstein, Kiel, Germany
- University of Ulm, Ulm, Germany
- MLL Münchner Leukämielabor GmbH, München, Germany
- Rigshospitalet, Copenhagen, Denmark
- Universitat de Barcelona Campus, Barcelona, Spain
- G. Papanicolaou Hospital, Thessaloniki, Greece
- University of Athens, Athens, Greece
- University of Turin, Turin, Italy
- Amedeo Avogadro University of Eastern Piedmont, Novara, Italy
- Niguarda Ca'Granda Hospital, Milan, Italy
- Padua University, Venetian Institute of Molecular Medicine (VIMM), Padova, Italy
- Erasmus MC, Rotterdam, Netherlands
- The University of Amsterdam, Amsterdam, Netherlands
- Medical University of Lublin, Lublin, Poland
- National Hematology Center, Moscow, Russia
- University of Belgrade, Belgrade, Serbia
- Royal Bournemouth Hospital, Bournemouth, UK
- Hammersmith Hospital, London, UK
- Queen's University Belfast, Belfast, UK
- Mayo Clinic, Rochester, USA
- Institute of Oncology Research, Bellinzona, Switzerland
- Ss. Cyril and Methodius University, Skopje, Macedonia
- Semmelweis University, Budapest, Hungary
- Università degli studi di Genova, Genova, Italy

CLL database

31 participating centres

18 participating countries

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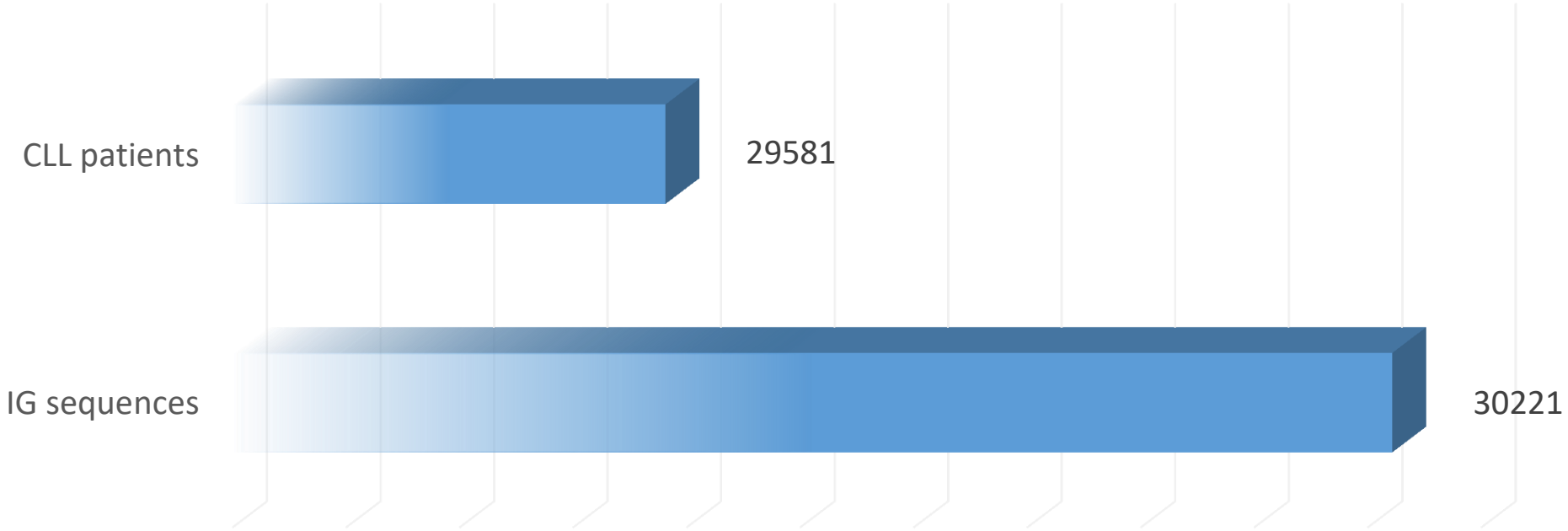

Phase 4: BcR IG repertoire analysis

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Sequence clustering based on CDR3 common amino acid patterns

Set of parameters for stereotypy

- Amino-acid identity (50%) & similarity (70%)
- Same CDR3 length
- Same CDR3 offset (position of the motif within CDR3)
- Same IGHV gene phylogenetic clan

Phase 4: BcR IG repertoire analysis

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Aims

- Percentage of stereotypy – relation to cohort size
- Major subsets
- Satellite subsets
- Characteristic patterns among different subsets

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Thank you for your time!

For further information:

http://www.ericll.org/ignetwork/