



# Identification of GCA specific T cell clones

Weber Anna<sup>1,2</sup>, Ann Morgan<sup>3</sup>, Darren Newton<sup>3</sup>, María Rodríguez Martínez<sup>2</sup>



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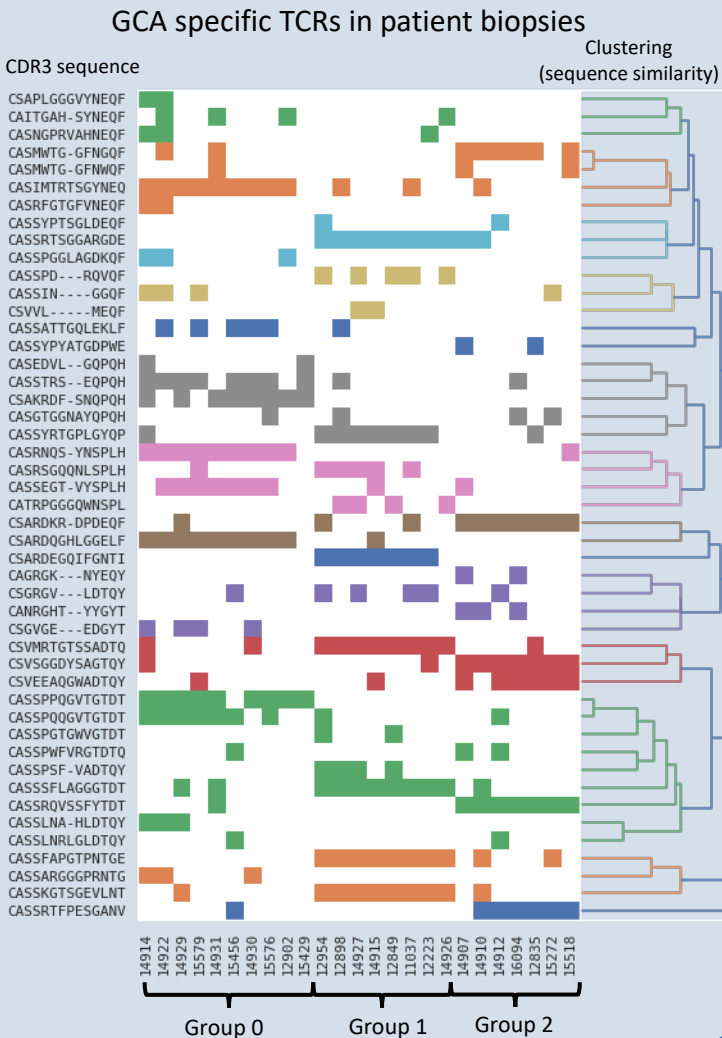


1 ETH Zürich, Department of Biosystems Science and Engineering  
2 IBM Research Europe, Zürich  
3 University of Leeds

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## Key message

- Identified **49 GCA specific T cell clones**
  - Highly expanded in biopsy of at least one patient
  - Shared by at least 8 GCA patients
  - Not occurring in any of the 698 control samples
- V and J gene preferences** suggest common HLA-restriction
- Patients fall into **three groups** based on TCRs in biopsy
- Outlook:** Do TCR-based patient groups correspond to different clinical outcomes?



## Cohort

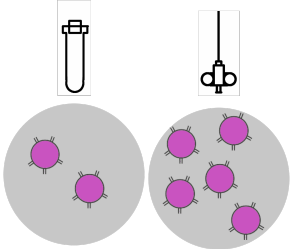


Biopsy	Blood	Sample Origin	# Individuals
x	x	Giant Cell Arteritis	25
	x	Paroxysmal Nocturnal Hemoglobinuria	41
	x	Healthy Controls	30
	x	Additional Healthy Controls	627 (Publicly available)

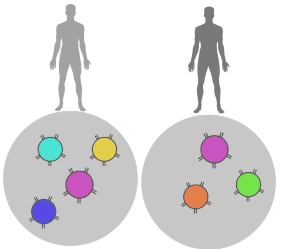
## Methods

- Extraction of T cells and **bulk TCR $\beta$  sequencing**
- Identification of GCA specific T cell clones:

### 1) Biopsy Expansion



### 2) Shared by Patients



### 3) Disease Specific

