

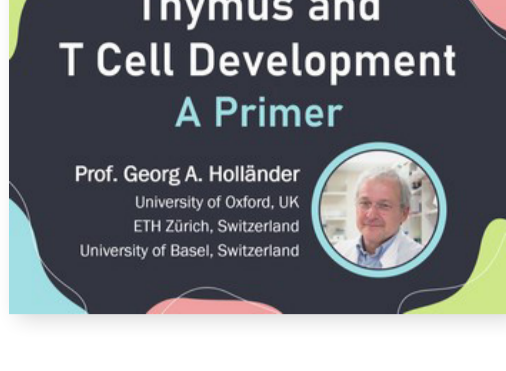


# Basics of Immunology

## Part 2

This learning journey is designed to introduce cells of the immune system such as T lymphocytes, Natural Killer cells, Dendritic cells, B lymphocytes, and chemokines. Disorders of the immune system such as hypersensitivity reactions are also discussed in this journey.

### 01 > The thymus and self-non-self discrimination



Extract from:  
**'The thymus and T cell development: a primer'**

Prof. Georg Holländer – University of Oxford, UK

5 mins

### 02 > T cell development

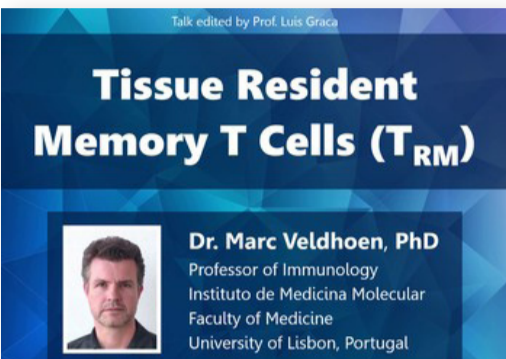


Extract from:  
**'The thymus and T cell development: a primer'**

Prof. Georg Holländer – University of Oxford, UK

3 mins

### 03 > T cell subsets (CD4 and CD8), activation and response



Extract from:  
**'Tissue resident memory T cells (TRM)'**

Dr. Marc Veldhoen – University of Lisbon, Portugal

3 mins

### 04 > What are T follicular helper cells?



Extract from:  
**'Tfh and Tfr cells'**

Prof. Luis Graca – University of Lisbon, Portugal

6 mins

### 05 > Cytotoxic T lymphocytes and their microenvironment

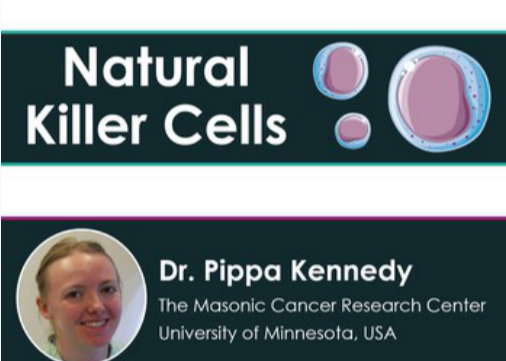


Extract from:  
**'Cytotoxic T lymphocytes'**

Prof. Gillian Griffiths – University of Cambridge, UK

5 mins

### 06 > Understanding the Natural Killer Cells



Extract from:  
**'Natural killer cells'**

Dr. Philippa Kennedy – University of Minnesota, USA

5 mins

### 07 > What are $\gamma\delta$ T cells?

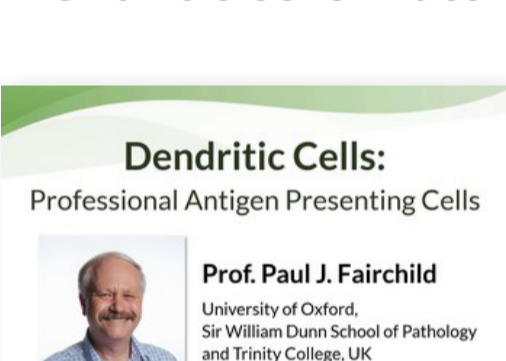


Extract from:  
**'Gamma delta T-cells'**

Prof. Bruno Silva-Santos – University of Lisbon, Portugal

5 mins

### 08 > Dendritic cells: nature's adjuvant



Extract from:  
**'Dendritic cells: professional antigen presenting cells'**

Prof. Paul J. Fairchild – University of Oxford, UK

5 mins

### 09 > B cell function and receptor



Extract from:  
**'B cell biology'**

Prof. Richard Cornall – University of Oxford, UK

5 mins

### 10 > B cell development

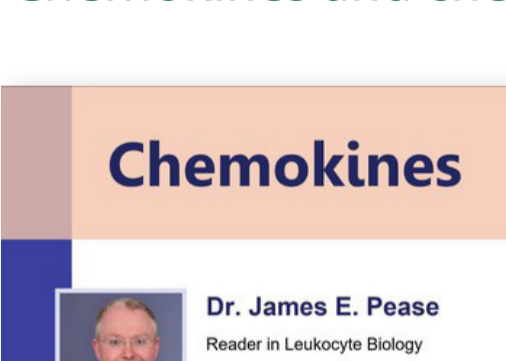


Extract from:  
**'B cell biology'**

Prof. Richard Cornall – University of Oxford, UK

5 mins

### 11 > Chemokines and chemotaxis

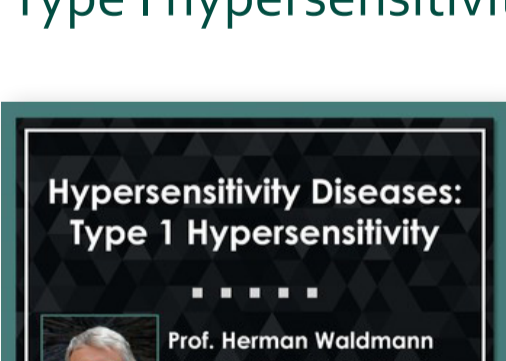


Extract from:  
**'Chemokines'**

Dr. James E. Pease – Imperial College London, UK

4 mins

### 12 > Type I hypersensitivity

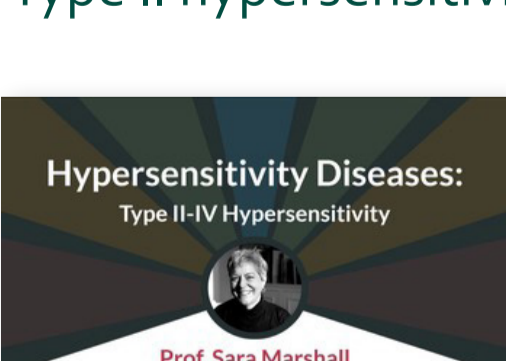


Extract from:  
**'Hypersensitivity diseases: type 1 hypersensitivity'**

Prof. Herman Waldmann – University of Oxford, UK

5 mins

### 13 > Type II hypersensitivity

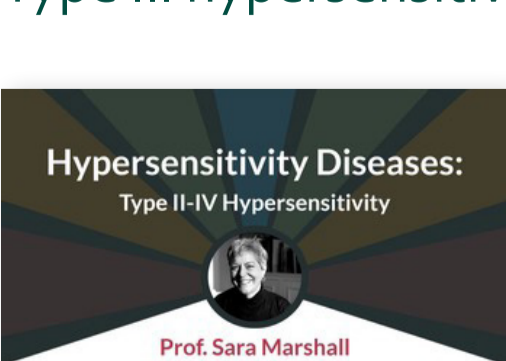


Extract from:  
**'Hypersensitivity diseases: type II-IV hypersensitivity'**

Prof. Sara Marshall – Wellcome Trust, UK

4 mins

### 14 > Type III hypersensitivity

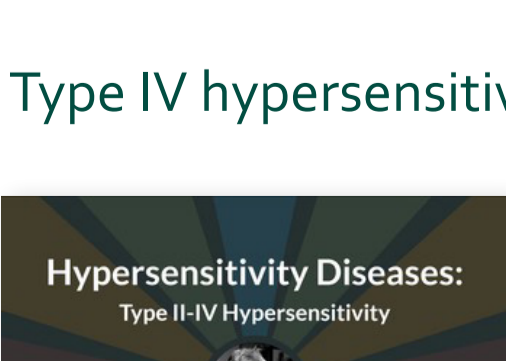


Extract from:  
**'Hypersensitivity diseases: type II-IV hypersensitivity'**

Prof. Sara Marshall – Wellcome Trust, UK

7 mins

### 15 > Type IV hypersensitivity



Extract from:  
**'Hypersensitivity diseases: type II-IV hypersensitivity'**

Prof. Sara Marshall – Wellcome Trust, UK

3 mins