# helper T cell This one fits! bacteria 2. The B cell finds an antigen which matches its receptors. It waits until it is activated by a helper T cell. Then the B cell divides to produce plasma and memory cells. I remember this one! Red alert! antibodies plasma cells produce antibodies that attach to the current type of invader. 5. Eater cells," prefer intruders marked with antibodies, and "eat" loads of them. 6. If the same intruder invades again, memory cells help the immune system to activate much faster.

#### WHAT IS U3A?

Beginning in France in the mid seventies, the U3A movement has now spread to most countries and has now many hundreds of thousands of members.

U3A is a response to the idea that human life is divided into three periods:- firstly, childhood and schooling; secondly, child rearing and work; and thirdly, retirement.

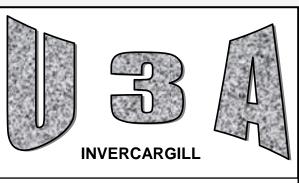
The Third Age is seen to provide the greatest opportunities for learning and understanding because it is during this period of retirement that the idea of a university as a community of those who seek greater understanding through learning can be put into practice.

#### The unique characteristics of U3A

- Learning topics are selected by members.
- In-depth courses are planned by members.
- Presenters / Facilitators are often local people or members.
- The company of others who enjoy learning is ensured.
- The atmosphere for learning is informal and friendly.
- There are no examinations.
- There are no compulsory activities.
- Courses take place in daylight hours.
- Costs are kept to a minimum.

U3A Invercargill was formed in 2002

**WEBSITE** www.u3ainvercargill.nz

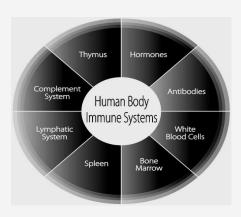


THE UNIVERSITY OF THE THIRD AGE

# The Immune System

2015 Series 5

July 10 to July 31



Venue: Windsor Community
Church Hall Windsor St.

Time: 10 a.m.

Cost: \$3.75 per session per person

# The Immune System

# **Presenters From the University of Otago**

# Session 1 Friday July 10 Presenter: Prof. Frank Griffin

Director Disease Research Laboratory, Dept. Microbiology and Immunology U.O.

## The Immune System at Work

# Session 2 Friday July 17 Presenter: Assoc. Prof. Alex McLellan

Immunologist, Dept. Microbiology and Immunology, U.O. and Southern Communities Laboratory.

The Workers of the Immune System

#### **Session 3 Friday July 24**

#### **Presenter: Dr. James Ussher**

Clinical Microbiologist and Immunologist, Dept. Microbiology and Immunology, U.O. and Southern Communities Laboratory.

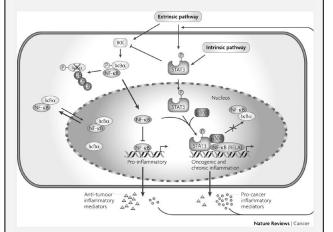
## The Immune Response to Infection

#### **Session 4 Friday July 31**

#### Presenter: Dr. Roslyn Kemp

Immunologist, Dept. Microbiology and Immunology, U.O.

# Destroying Cancer with Immune Cells



Enquiries to: Brian Lucy 218 7614 Daniel Phillips 217 6995

#### **Registration Form**

Please enrol the person(s) named on the reverse. for

## The Immune System Series 5 2015

Amount enclosed \$15 per person

Amount	Cash	Cheque
\$		

Make direct credit payments to 03 1746 0080910 000 using your name, series and telephone numbers.

Registration form not required.

#### **Tick for Receipt**

#### **Please Post your registration to:**

The Treasurer, U3A Invercargill P O Box 6147 Invercargill North Invercargill 9841