

## Immunotherapy

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( Biological therapy )

( biological response modifier therapy )

:

( Antigens )

( )

)

( antigen )

(

( cell surface Antigens )

)

(

(

)

( Antibodies )

( immunoglobulins )  
( Antigen )

( Cytokines )

:

( lymphocytes )

( T cells )

( B cells )

.( natural killer )

( B lymphocytes )

( )  
( )

( Bone marrow )

( bursa )

( )

( antibodies )  
( plasma cell )

( T lymphocytes )

( thymus )

( )

( Cytotoxic T lymphocytes )

- :
- -

( lymphokines )  
( interleukins )

( Natural Killer cells NK )

( Macrophages )

( monocytes )

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( specific immunotherapies )

•

( Nonspecific immunotherapies )

•

( Cancer vaccines )

( Monoclonal antibody therapy )

( biological response modifiers BRMs )

( Nonspecific immunotherapies )

( biological response modifiers BRMs )

( cytokines )

( colony-stimulating factors )  
( Adjuvants )

( interferons )  
( interleukins )

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( Colony-stimulating factors CSFs )

( hematopoietic growth factors )

( stem cells )

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( Granulocyte colony-stimulating factor G-CSF )

( Neupogen )

( Filgrastim )

Granulocyte-macrophage colony-

( Leukine )

( sargramostim )

( stimulating factor GM-CSF )

:( Erythropoietin )

•

( Procrit )

( epoetin alfa )

:

•

( Interleukin-11 ) 11

( Interleukin )

( Neumega )

( Oprelvkin )

.( melanoma )

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( Interferons IFN )

( angiogenesis )

( antigens )

Chronic myelogenous )

( Follicular non-Hodgkin's lymphoma )

( Hairy cell leukemia )

( Cutaneous T cell lymphoma )

( leukemia

( Kaposi's sarcoma )



:( Interleukins )

( aldesleukin )

( metastatic melanoma )

( interleukin-2 IL-2 ) 2

( metastatic renal cell cancer )

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( Adjuvants )

:( Levamisole )

( fluorouracil (5-FU) )

:( BCG )

( tuberculosis )

( specific immunotherapies )

( Cancer vaccines )

( antigens )

( Tumor Cell Vaccines )

( )

( Antigen vaccines )

( genetic codes )



( Monoclonal antibody immunotherapy )

( passive immunotherapy )

( hybridoma )

)

(

myeloma)

( monoclonal antibodies MoAbs )

( humanized monoclonal antibodies )

( gene )

( Multiple myeloma )

( Neuroblastoma )

:

( Conjugated monoclonal antibodies )

( )

•

•

( naked monoclonal antibodies )

( receptors )

(

)

:

( HER2 )<sub>2</sub>

( Trastuzumab )

•

( Rituximab )  
( B cell non-Hodgkin's lymphoma )  
( CD20 )<sub>20</sub>

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( Conjugated monoclonal antibodies )

( OncoScint )

( ProstaScint )

( Immunotoxins )

( diphtherial toxin )

( interleukin-2 ) 2

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