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## **Autologous stem cell transplantation in juvenile idiopathic arthritis : regaining immunological tolerance and arresting disease progression**

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### **Citation**

Brinkman, D. M. C. (2007, November 14). *Autologous stem cell transplantation in juvenile idiopathic arthritis : regaining immunological tolerance and arresting disease progression*. Retrieved from <https://hdl.handle.net/1887/12432>

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**Autologous Stem Cell Transplantation  
in Juvenile Idiopathic Arthritis**

Regaining immunological tolerance and  
arresting disease progression

## Colofon

About the cover:

"Il Amore Dormiente", Michelangelo Merisi da Caravaggio, 1608, Palazzo Pitti, Firenze, Italy.

A sleeping cupid with juvenile idiopathic arthritis (Lancet 1994; 344:1750-1752)

Cover and Lay-out: Ponsen & Looijen BV

Printed by: Ponsen & Looijen BV

The research described in this thesis was performed in the Laboratory of Immunology, Department of Pediatrics, Leiden University Medical Center, Leiden, the Netherlands, and was funded by research grants from NWO, the Netherlands Organisation for Scientific Research (Grant Number 940-37-004) and the Dutch Arthritis Association (Nationaal Reumafonds Grant Number NR 901).

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ISBN: 978-90-6464-169-5

Financial support for the publication of this thesis was provided by Abbott B.V., Amgen B.V., Bristol-Myers Squibb, Dutch Arthritis Association, Genzyme, J.E. Jurriaanse Stichting, Novartis Pharma B.V., Pfizer, Roche, Sanquin, Schering-Plough, Wyeth Pharmaceuticals B.V.

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**Autologous Stem Cell Transplantation  
in Juvenile Idiopathic Arthritis**

**Regaining immunological tolerance and  
arresting disease progression**

**Proefschrift**

ter verkrijging van  
de graad van Doctor aan de Universiteit Leiden,  
op gezag van Rector Magnificus prof. mr. P.F. van der Heijden,  
volgens besluit van het College voor Promoties  
te verdedigen op 14 november 2007  
klokke 13.45

door

**Daniëlle Marianne Christèl Brinkman**

Geboren te Dedemsvaart  
In 1970

**Promotiecommissie**

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Dr. M.J.D. van Tol

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*Voor Rob, Thom, Myrthe en ...*



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## Abbreviations

AA	adjuvant arthritis
ACR	American College of Rheumatology
AI	avidity index
AIA	adjuvant induced arthritis
AID	autoimmune disease
APC	antigen presenting cell
ASCT	autologous stem cell transplantation
ASTIC	autologous stem cell transplantation international Crohn´s disease
ASTIL	autologous stem cell transplantation international lupus
ASTIMS	autologous stem cell transplantation international multiple sclerosis
ASTIS	autologous stem cell transplantation international scleroderma
ATG	antithymocyte globulin
BED	biological effective dose
BSA	bovine serum albumin
CAPD	continuous ambulatory peritoneal dialysis
CD	cluster of differentiation
CHAQ	child health assessment questionnaire
CI	confidence interval
CMV	cytomegalovirus
CNS	coagulase –negative staphylococcus
CPM	counts per minute
CsA	cyclosporin A
CVID	common variable immunodeficiency
CYC	cyclophosphamide
DEA	diethanolamine buffer
DKCV	dog kidney cell vaccine
DMARD	disease modifying anti-rheumatic drug
DTP	diphtheria toxoid , tetanus toxoid and inactivated poliovirus 1,2 and 3
EAE	experimental allergic encephalomyelitis
EBMT	European Group for Blood and Marrow Transplantation
EBV	Epstein-Barr virus
ELISA	Enzyme-Linked Immuno Sorbent Assay
ENT	ear, nose, throat
EPM-ROM	Escola Paulista de Medicina-Range of Motion scale
ESR	erythrocyte sedimentation rate
EULAR	European League against Rheumatism
FITC	fluorescein isothiocyanate
G-CSF	granulocyte colony stimulating factor

List of abbreviations

GMT	geometrical mean titer
GvA	graft versus autoimmunity
GvHD	graft versus host disease
HAART	highly active anti-retroviral therapy
HDCV	human diploid cell vaccine
HIV	human immunodeficiency virus
HLA	human leucocyte antigen
HLH	hemophagocytic lymphohistiocytosis
HPH	$\alpha$ -helix pomatia haemocyanin
HSP	heat shock protein
HSV	herpes simplex virus
IAHS	infection associated hemophagocytic syndrome
IBMTR	International Bone Marrow Transplant Registry
IL	interleukin
ILAR	International League Against Rheumatism
IU	International Units
IVIG	intravenous immunoglobulin suppletion
JIA	juvenile idiopathic arthritis
KLH	keyhole limpet haemocyanin
MAS	macrophage activation syndrome
MHC	major histocompatibility complex
MLR	mixed lymphocyte reaction
MS	multiple sclerosis
MSC	mesenchymal stem cell
MTX	methotrexate
NaSCN	sodium thiocyanate
NK	natural killer
NSAID	non-steroidal anti-inflammatory drug
NWO	Netherlands Organization for Scientific Research
PBMC	peripheral blood mononuclear cells
PBS	phosphate buffered saline
PHA	phytohemagglutinin
PM	Pitman Moore
PNP	4-nitrophenyl-phosphate disodium salt
PRINTO	Paediatric Rheumatology INternational Trials Organisation
RA	rheumatoid arthritis
RAMAP	rabbit-anti-mouse Ig conjugated with alkaline phosphatase
RHAV	relative high affinity value
RIVM	National Institute of Public Health and the Environment
SAA	severe aplastic anemia

SCT	stem cell transplantation
SD	standard deviation
SDS	standard deviation score
SEM	standard error of mean
SI	stimulation index
SLE	systemic lupus erythematoses
SPSS	Statistical Package for the Social Sciences
SSc	systemic sclerosis
SSZ	sulfasalazine
TBI	total body irradiation
TCR	T-cell receptor
TH	target height
TNF	tumour necrosis factor
TRECS	T-cell receptor excision circles
Treg	regulatory T cell
TRM	transplant related mortality
TT	tetanus toxoid
VAS	visual analogue scale
VZV	varicella zoster virus
WHO	World Health Organization

