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Molecular and genetic markers for the prediction of kidney transplant outcome

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Citation

Yang, J. (2018, December 19). *Molecular and genetic markers for the prediction of kidney transplant outcome*. Retrieved from <https://hdl.handle.net/1887/67425>

Version: Not Applicable (or Unknown)

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Issue Date: 2018-12-19

CURRICULUM VITAE

Jianxin Yang was born on September 1st 1985 in Zhangjiakou, Hebei, China. In 2006, he started his animal and plant quarantine studies at the Hebei North University. He obtained his bachelor degree in 2010 with a graduation research project on parasite identification at the pathology laboratory from the Animal science and Technology College. He then started his studies on preventive veterinary at Jilin University (JLU). He studied the effect of Raf kinase inhibitor protein (RKIP) on the replication and propagation of Newcastle Disease Virus and completed his master degree in 2013 at the department of veterinary virology of JLU. In November 2013, he started the Ph.D. studies described in this thesis at the department of Immunohaematology and Blood Transfusion (IHB) of the Leiden University Medical Center (LUMC) under the supervision of prof. dr. F.H.J. Claas, and dr. M. Eikmans. During his Ph.D. research he studied molecular and genetic risk factors of kidney transplant outcome. In August 2018, he went back to China and will continue his research in the field of kidney transplantation.

Abbreviations

| | |
|---------------|---|
| ABMR | antibody mediated rejection |
| AP-1 | activator protein 1 |
| APAF1 | apoptotic protease-activating factor-1 |
| APC | antigen presenting cells |
| ATG | anti-thymocyte globulin |
| ATP | adenosine triphosphate |
| BAX | BCL2-associated X protein |
| BCL2 | B-cell lymphoma 2 |
| BH3 | Bcl-2 homology domain 3 |
| c-FLIP | cellular FLICE (FADD-like IL-1 β -converting enzyme)-inhibitory protein |
| CAN | chronic allograft nephropathy |
| Caspases | cysteine-dependent aspartate-directed proteases |
| CCL2 | chemokine (C-C motif) ligand 2 |
| CTLA4 | cytotoxic T-lymphocyte-associated protein 4 |
| DAMP | damage-associated molecular patterns |
| DC | dendritic cells |
| DGF | delayed graft function |
| Disc | death inducing signaling complex |
| DSA | donor specific antibody |
| dsRNA | double-stranded RNA |
| ESRD | end-stage renal disease |
| FasL | First apoptosis signal receptor ligand |
| GWAS | genome wide association study |
| HLA | human leukocyte antigen |
| HMGB1 | high-mobility group box-1 |
| HSP | heat shock proteins |
| IF/TA | interstitial fibrosis and tubular atrophy |
| IFN- γ | interferon gamma |
| IL | Interleukin |
| IRAK | IL-1R-associated kinase |
| IRI | ischemia and reperfusion injury |
| IVIG | intravenous immunoglobulin |
| LAG-3 | Lymphocyte Activating 3 |
| LPS | lipopolysaccharide |
| MAC | membrane-attack complex |
| MAPK | mitogen-activated protein kinase |
| MBL | mannan-binding lectin |
| MDSC | myeloid-derived suppressor cell |



| | |
|--------------|--|
| MHC | major histocompatibility complex |
| MYD88 | myeloid differentiation primary response protein 88 |
| NF-kB | nuclear factor kappa-light-chain-enhancer of activated B cells |
| NK | natural killer |
| NLR | nucleotide-binding oligomerization domain-like receptors |
| PAMP | pathogen-associated molecular patterns |
| PD | programmed death |
| PGM5 | Phosphoglucomutase 5 |
| PRR | pattern recognition receptors |
| PTC | peritubular capillaries |
| RAGE | receptor for advanced glycation end products |
| RIG | retinoic acid-inducible gene I |
| RLR | RIG-like receptors |
| ROS | reactive oxygen species |
| SNP | single nucleotide polymorphisms |
| ssRNA | single-stranded RNA |
| TCMR | T cell mediated rejection |
| TGF- β | transforming growth factor beta |
| TLR | Toll-like receptor |
| TM4SF18 | Transmembrane 4 L Six Family Member 18 |
| TNF α | tumor necrosis factor alpha |
| TRAM | TRIF-related adaptor molecules |
| TRIF | TIR domain-containing adaptor protein inducing IFN β |

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Acknowledgments

It has been five years since 2 November 2013, the day I walked into the LUMC to start my Ph.D studies at the department of Immunohematology and Blood transfusion (IHB). When I made the decision to go to Netherlands to pursue my PhD, I knew that I would meet many difficulties, such as language problems, a different education background, and many cultural differences. It is great that there were many people willing to help, educate and encourage me to finish my PhD studies and to facilitate my stay in the Netherlands. A few of them I want to thank personally. .

First and foremost, I would like to express my most sincere appreciation to my supervisor Frans, who give me the opportunity to join the ITI group. Frans, you are a great supervisor and leader. You are so smart, knowledgeable, confident and humorous that that I learn a lot from you, not only on scientific work but also on life. Thank you for your trust, guidance, encouragement, and patience throughout these years. This had shaped me both as researcher and a person. I will always be grateful to you. In addition, I especially appreciate you to provide Sissi the opportunity to work in your group. Michael, my daily supervisor and supporter. You were always available for guidance, advice and discussions. Your knowledge and enthusiasm had a big influence on me. You always answered my questions timely and provided me a lot of help, especially with presentations, writing manuscripts and revising my thesis. I have learned a lot from you, for which I am grateful forever. Cees, Dave, Sebas and Leendert, thanks for all the valuable discussions, advice and sharing your knowledge.

I would like to express my appreciation to my roommates, who always supported me, any time and in any way. Jos and Jacqy, my paranymphs, I feel honored that you are standing next to me on this special day. You have helped me from very beginning to the end of my study. Jos, warmhearted colleague and friend, thanks for your guidance on the Dutch culture. Without you, I am afraid, I could not have survived in Holland. Jacqy, like a mom you have taken care of me and shared your fruits with us. Thank you for the enormous support during my experiments especially the ones related to the S100 story. Gonca, my best friend, thanks for your delicious Turkish food, help and guidance. Marijke, thanks for your help in the fluidigm studies. Berit, thanks for your help in the qPCR study. Els Gielis, my closest roommate, thanks for your help in my research and sharing your knowledge. Anita, my last roommate, I really miss the times during which we had a cup of coffee and nice short talks. Thanks for sharing your knowledge especially with respect to the FACS panel.

Anouk, thanks for your secretarial support in the whole process of my stay in the Netherland and my research. Geert, my big supporter in statistics. You are so enthusiastic and always happy to answer any question from me. I really enjoy the discussions with you and have

learned a lot from you. Ellen and Heleen, thanks for take caring of Sissi and me, and for your guidance in cell cultures. Els thanks for your guidance and help in the Luminex experiments. Yvonne de V, Paula, Marry, Yvonne Z, Manon, and Juliette, Thanks for all your help and the pleasant cooperation. The typing and screening lab, thanks all for the pleasant collaboration and necessary support in my research. Godelieve and Janine, Carin and Hanneke, thanks for your kind help and guidance on Immunohistochemistry and FACS staining. Cynthia, Moniek, Caroline and Helena, thanks for all the fun conversations, which I really enjoyed.

I am grateful to our collaborators, Malou. Snijders, Marko Mallat, Johan de Fijter, Marian. Clahsen-van Groningen, Ulrike Kolbe, Geertje. Dreyer, Brendan Keating, Rainer Oberbauer for the valuable comments on my thesis.

All my wonderful friends and family. Dejian Kong, Gangqi Wang, Na Li and Zhuang Li, you were always there, to cook and drink together, to celebrate the Chinese Festival. Thanks for your company and the good times. All the members in the LUMC lunch group, I really enjoy the funny conversations during lunch time.

My parents, it's finally finished. You have seen me grow and listened to my enthusiastic stories from Holland. Thanks for your advice and unconditional support. Dear my wife, you are the greatest supporter. You always take care of me and give your whole love to me. You gave up the opportunity to work and leave your parents to go to Netherlands with me. I really appreciate everything you have done for me and will be forever grateful to you. In the end, I would like to thank all the people who contributed in any way to my PhD, thank you for the help and support.

Jianxin Yang
杨建新
Dec 2018



