

Contents

Basic Concept of Development and Practical Application of Animal Models for Human Diseases	1
T. Nomura, N. Tamaoki, A. Takakura, and H. Suemizu	
Humanized SCID Mouse Models for Biomedical Research	25
T. Pearson, D. L. Greiner, and L. D. Shultz	
NOD/Shi-<i>scid</i> <i>IL2r</i>^{null} (NOG) Mice More Appropriate for Humanized Mouse Models	53
M. Ito, K. Kobayashi, and T. Nakahata	
Humanizing Bone Marrow in Immune-Deficient Mice	77
K. Ando, Y. Muguruma, and T. Yahata	
The Differentiative and Regenerative Properties of Human Hematopoietic Stem/Progenitor cells in NOD-SCID/<i>IL2r</i>^{null} Mice	87
F. Ishikawa, Y. Saito, S. Yoshida, M. Harada, and L. D. Shultz	
Antigen-Specific Antibody Production of Human B Cells in NOG Mice Reconstituted with the Human Immune System	95
R. Ito, M. Shiina, Y. Saito, Y. Tokuda, Y. Kametani, and S. Habu	
Humanized Immune System (HIS) Mice as a Tool to Study Human NK Cell Development	109
N. D. Huntington and J. P. Di Santo	
Human T Cell Development and HIV Infection in Human Hemato-Lymphoid System Mice	125
S. Baenziger, P. Ziegler, L. Mazzucchelli, L. Bronz, R. F. Speck, and M. G. Manz	

Humanized Mice for Human Retrovirus Infection	133
Y. Koyanagi, Y. Tanaka, M. Ito, and N. Yamamoto	
Functional and Phenotypic Characterization of the Humanized BLT Mouse Model	149
A. K. Wege, M. W. Melkus, P. W. Denton, J. D. Estes, and J. V. Garcia	
Novel Metastasis Models of Human Cancer in NOG Mice	167
M. Nakamura and H. Suemizu	
In Vivo Imaging in Humanized Mice	179
H. Masuda, H. J. Okano, T. Maruyama, Y. Yoshimura, H. Okano, and Y. Matsuzaki	
Index	197



<http://www.springer.com/978-3-540-75646-0>

Humanized Mice

Nomura, T.; Watanabe, T.; Habu, S. (Eds.)

2008, XIII, 199 p., Hardcover

ISBN: 978-3-540-75646-0