

## Curriculum Vitae



Name: Katsutoshi Naruse M.D. Ph.D.

Sex: Male

Birth: December 3, 1959 in Tokyo.

Age: 46

Present address: 32-1 Senjuokawacho, Adachi-ku, Tokyo 120-0031

TEL & FAX: 03-3881-3098 e-mail: [kmnaruse@nifty.com](mailto:kmnaruse@nifty.com)

Present affiliation: Division of Artificial Organs & Transplantation, Department of Surgery, Faculty of Medicine, University of Tokyo

7-3-1 Hongo, Bunkyo-ku, Tokyo 113-8655

TEL: 03-5800-8654 ex.37116 FAX: 03-5684-3989

e-mail: [narusek-sur@h.u-tokyo.ac.jp](mailto:narusek-sur@h.u-tokyo.ac.jp)

### Education

3/1987 Graduate from Faculty of Medicine, University of Tokyo

### Title degree

10/9/1997 Medical title degree Thesis: Development of hybrid bioartificial liver

### License

25/5/1988 Medical license of Japan No.315460

1/12/1995 Advanced surgical license of Japan Surgical Society No.11313

1/4/2006 Special Doctor licence of Japan Dialysis Society

## Career

1/6/1998 Department of Internal Medicine, Faculty of Medicine, University of Tokyo  
1/12/1988 Department of Surgery, Faculty of Medicine, University of Tokyo  
1/6/1989 Department of Anesthesiology, Hospital of Japan Railway  
1/9/1989 Department of Surgery, Kikkoman Hospital  
1/6/1992 First Department of Surgery, Faculty of Medicine, University of Tokyo  
1/10/1992 Department of Surgery, National Senetrium Hospital of Tokyo  
1/2/1993 Department of Surgery, Faculty of Medicine, University of Tokyo  
15/6/1997 Department of Surgery, NTT Kanto Hospital  
1/7/1998 Medical staff of Department of Surgery, Faculty of Medicine, University of Tokyo

## First author

1. Naruse K, Ishikawa H, Ueda H, Kurome M, Miyazaki K, Sawasaki T, Nagashima H, Makuuchi M. Production of a transgenic pig expressing human albumin and enhanced green fluorescent protein. *Journal of Reproduction and Development*, 51, 539-546, 2005
2. Naruse K Artificial Liver Support; Future Aspect. *Journal of Artificial Organs*, 8, 71-76, 2005
3. Naruse K, Nagashima H, Sakai Y, Kokudo N, Makuuchi M. Development and perspectives of perfusion treatment for liver failure. *Surgery Today* 35, 507-517, 2005
4. Naruse K, Sakai Y, Guo L, Natori T, Shindoh J, Karasawa Y, Iida Y, Kojima K, Michishita K, Makuuchi M. Development of a new extracorporeal whole liver perfusion system. *Journal of Artificial Organs*. 6, 211-217, 2003
5. Naruse K, Sakai Y, Natori T, Guo L, Shindoh J, Michishita K, Iida Y, Makuuchi M. Efficacy of xenogeneic direct hemoperfusion using whole swine liver for liver failure in dogs. *Journal of Surgical Research*. 111, 229-235, 2003
6. Naruse K, Sakai Y, Natori T, Guo L, Shindoh J, Son JC, Makuuchi M. Development of xenogeneic direct hemoperfusion method in a bioartificial liver system. *Journal of Artificial Organs*. 5, 257-264, 2002
7. Naruse K, Makuuchi M. Development and perspectives of bioartificial liver support. *Hepatogastroenterology*. S49, 91-95, 2002.
8. Naruse K, Sakai Y, Guo L, Puliatti C, Son JC, Makuuchi M. Efficacy of nonwoven fabric bioreactor immobilized with porcine hepatocytes for ex vivo xenogeneic perfusion treatment of liver failure in dogs. *Artificial Organs*. 25, 273-280, 2001
9. Naruse K, Nagashima I, Sakai Y, Harihara Y, Gao J, Suzuki M, Muto T, Makuuchi M. Efficacy of a bioreactor filled with porcine hepatocytes immobilized on nonwoven fabric for ex vivo direct hemoperfusion treatment of liver failure in pigs. *Artificial Organs*. 22, 1031-1037, 1998
10. Naruse K, Sakai Y, Nagashima I, Jiang GX, Suzuki M, Muto T. Comparisons of porcine hepatocyte spheroids and single hepatocytes in the non-woven fabric bioartificial liver module.

International Journal of Artificial Organs. 19, 605-609, 1996

11. Naruse K, Sakai Y, Nagashima I, Jiang GX, Suzuki M, Muto T. Development of a new bioartificial liver module filled with porcine hepatocytes immobilized on non-woven fabric. International Journal of Artificial Organs. 19, 347-352, 1996

## Coauthor

1. Kurome M, Ueda H, Tomii R, Naruse K, Nagashima H. Production of transgenic-clone pigs by the combination of ICSI-mediated gene transfer with somatic cell nuclear transfer. Transgenic Research. 15, 229-240, 2006
2. Shindoh J, Naruse K, Sakai Y, Makuuchi M. Efficacy of immunoabsorbent devices for maintaining hepatic function in ex vivo direct xenogeneic hemoperfusion. International Journal of Artificial Organs. 27, 294-302, 2004
3. Jiang J, Guo L, Kojima N, Naruse K, Makuuchi M, Miyajima A, Yan W, Sakai Y. Efficacy of engineered liver tissue based on poly-L-lactic acid scaffolds and fetal mouse liver cells cultured with Oncostatin M, nicotinamide and dimethyl sulfoxide. Tissue Engineering 10, 1577-1586, 2004
4. Guo L, Haga S, Enosawa S, Naruse K, Harihara Y, Makuuchi M, Ozaki M. Improved hepatic regeneration with reduced injury by redox factor-1 in a rat small-sized liver transplant model. American Journal of Transplantation. 4, 879-887, 2004
5. Matsui Y, Saiura A, Sugawara Y, Sata S, Naruse K, Yagita H, Kohro T, Mataka C, Izumi A, Yamaguchi T, Minami T, Sakihama T, Ihara S, Aburatani H, Hamakubo T, Kodama T, Makuuchi M. Identification of gene expression profile in tolerizing murine cardiac allograft by costimulatory blockade. Physiological Genomics. 15, 199-208, 2003
6. A new bioartificial liver using porcine hepatocyte spheroids in high-cell-density suspension perfusion culture: in vitro performance in synthesized culture medium and in 100% human plasma. Sakai Y, Naruse K, Nagashima I, Muto T, Suzuki M. Cell Transplantation. 8, 531-541, 1999
7. Histopathological prognostic factors influencing long-term prognosis after surgical resection for hepatic metastases from colorectal cancer. Nagashima I, Oka T, Hamada C, Naruse K, Osada T, Muto T. American Journal of Gastroenterology. 94,739-743, 1999
8. In vitro function of porcine hepatocyte spheroids in 100% human plasma. Sakai Y, Naruse K, Nagashima I, Muto T, Suzuki M. Cell Transplantation. 5, S41-43, 1996
9. Short-term hypothermic preservation of porcine hepatocyte spheroids using UW solution. Sakai Y, Naruse K, Nagashima I, Muto T, Suzuki M. Cell Transplantation. 5, 505-511, 1996
10. Functional stability of porcine hepatocyte spheroids in various culture systems under 100% porcine and human plasma condition. Sakai Y, Naruse K, Nagashima I, Muto T, Suzuki M. Artificial Organs. 20, 56-60, 1996
11. Large-scale preparation and function of porcine hepatocyte spheroids. Sakai Y, Naruse K,

Nagashima I, Muto T, Suzuki M. International Journal of Artificial Organs. 19, 294-301, 1996  
12. Surgical resection for small hepatocellular carcinoma. Nagashima I, Hamada C, Naruse K,  
Osada T, Nagao T, Kawano N, Muto T. Surgery. 119, 40-45, 1996

### **Oral presentation (International Congress)**

Investigation of homologous perfusion experiment by the bioartificial liver module filled with hepatocytes.

10th world congress of the International Society for Artificial Organs (ISAO)

Nov. 15, 1995 (Taipei, Taiwan)

Development of non-woven fabric bioreactor: Efficacy in the perfusion treatment for liver failure model pig.

12th congress of the International Society for Artificial cells, Blood substitutes and Immobilization biotechnology (ISABI)

Sep. 2, 1997 (Beijing, China)

Efficacy of a bioreactor filled with porcine hepatocytes immobilized on non-woven fabric for ex vivo perfusion treatment of liver failure in pigs and dogs.

25th congress of European Society for Artificial Organs (ESAO)

Nov. 13, 1998 (Bologna, Italy)

Development of xenogeneic direct hemoperfusion method for bioartificial liver.

13th world congress of the International Society for Artificial Organs (ISAO)

Nov. 7, 2001 (Osaka, Japan)

Investigatuion of ultimate style for bioartificial liver support.

5th annual meeting of the Tissue Engineering Society international (TESi)

Dec. 9, 2002 (Kobe, Japan)

Investigatuion of ultimate style for bioartificial liver support.

ASAIO (American Society for Artificial Internal Organs) / ISAO (International Society for Artificial Organs) joint conference

Jun. 19, 2003 (Washington, USA)

Coming:

Artificial organs using miniature swine. (Key note lecture for 30min)

5<sup>th</sup> World Congress of Biomechanics

Aug. 3, 2006 (Munich, German)