

**Division  
of  
Tumor Dynamics and  
Regulation**

## Publications

1. Matsumoto, K. and Nakamura, T.: Hepatocyte growth factor and the Met system as a mediator of tumor-stromal interactions. *Int. J. Cancer*, 119: 477-483, 2006.
2. Machide, M., Hashigasako, A., Matsumoto, K., and Nakamura, T.: Contact inhibition of hepatocyte growth regulated by functional association of the c-Met/HGF receptor and LAR protein tyrosine phosphatase. *J. Biol. Chem.*, 281: 8765-8772, 2006.
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10. Son, G., Hirano, T., Seki, E., Iimuro, Y., Nukiwa, T., Matsumoto, K., Nakamura, T., and Fujimoto, J.: Blockage of HGF/c-Met system by gene therapy (adenovirus-mediated NK4 gene) suppresses hepatocellular carcinoma in mice. *J. Hepatol.*, 45: 688-695, 2006.

11. Niimura, M., Takagi, N., Takagi, K., Mizutani, R., Ishihara, N., Matsumoto, K., Funakoshi, H., Nakamura, T., and Takeo, S.: Prevention of apoptosis-inducing factor translocation is a possible mechanism for protective effects of hepatocyte growth factor against neuronal cell death in the hippocampus after transient forebrain ischemia. *J. Cereb. Blood Flow Metab.*, 26: 1354-1365, 2006.
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15. Date, I., Takagi, N., Takagi, K., Tanonaka, K., Funakoshi, H., Matsumoto, K., Nakamura, T., and Takeo, S.: Hepatocyte growth factor attenuates cerebral ischemia-induced increase in permeability of the blood-brain barrier and decreases in expression of tight junctional proteins in cerebral vessels. *Neurosci. Lett.*, 407:141-145, 2006.
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23. Nakano, M., Takagi, N., Takagi, K., Funakoshi, H., Matsumoto, K., Nakamura, T., and Takeo, S.: Hepatocyte growth factor promotes the number of PSD-95 clusters in young hippocampal neurons. *Exp. Neurol.*, 207: 195-202, 2007.
24. Matsumoto, K. and Nakamura, T. NK4 gene therapy targeting HGF-Met and angiogenesis. *Front Biosci.*, 13: 1943-1951, 2008.
25. Nakamura, T., Nakamura, T. and Matsumoto, K.: The functions and possible significance of Kremen as the gatekeeper of Wnt signaling in development and pathology. *J. Cell. Mol. Med.*, 12: 391-408, 2008.
26. Mizuno, S., Matsumoto, K., and Nakamura, T.: Hepatocyte growth factor as a renoprotective and anti-fibrotic regulator in chronic renal disease. *Front. Biosci.*, 13: 7072-7086, 2008.
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  36. Fukuta, K., Adachi, E., Matsumoto, K., and Nakamura, T.: Different reactivities of enzyme-linked immunosorbent assays for hepatocyte growth factor. *Clinica Chimica Acta*, 2009, in press.
  37. Kamimoto, M., Mizuno, S., Matsumoto, K., Nakamura, T.: Hepatocyte growth factor prevents multiple organ injuries in endotoxemic mice through a heme oxygenase-1-dependent mechanism. *Biochem. Biophys. Res. Commun.*, 2009, in press.
  38. Liu, K.X., Kato, Y., Matsumoto, K., Nakamura, T., Kaku, T., and Sugiyama, Y.: Characterization of the Enhancing Effect of Protamine on the Proliferative Activity of Hepatocyte Growth Factor in Rat Hepatocytes. *Pharmacol. Res.*, 2009, in press.

## **Other achievements**

### **<Award>**

Nature Medicine-AnGesMG BioMedical Award (Main Award): K. Matsumoto (2006)

"Discovery and therapeutic approach of NK4, an anti-cancer molecule in the 21<sup>st</sup> century"

### **<Granted patent>**

1. Title: Asthma preparation

Inventors: Kanehiro A, Nakamura T, Tanimoto M, Itoh W, Matsumoto K.

Patent number: GB2414395

Granted date: 10 / 31 / 2007

### **<Applied patents>**

1. Title: Reconstruction of neural function by use of HGF in transplantation of olfactory mucosal epithelial cells for treatment of spinal cord injury.

Application number: 2006-061624

Date of application: 03 / 07 / 2006

2. Title: Variants of HGF precursor protein and their active proteins.

Application number: 2006-116498

Date of application: 04 / 20 / 2006