

Name: SHIN KOGA, M.D., Ph.D**Affiliation/Occupancy:** Professor of Internal Medicine, Division of Hematology/Oncology, Basic Medicine Department of Nursing, University of Shizuoka**Education:**

1979-1985 Kumamoto University, School of Medicine:

1987-1991 Kumamoto University Graduate School (Degree: Ph.D (1991. March))

Qualifications/Degree: Ph.D (1991. March)**Appointments/Career:**

1985-1986 Physician(full time), The 2nd Department of Internal Medicine, School of Medicine, Kumamoto University

1986-1987 Physician(full time) Kumamoto Red-Cross Hospital, Internal Medicine

1990.3.-1992.8. Postdoctoral Research Fellow (full time), Department of Physiology and Vascular Biology, School of Medicine, Columbia University, USA

1992. 8-1994 Physician(full time) Chief in Infection Control Doctor, The 2nd Department of Internal Medicine, School of Medicine, Kumamoto University

1994-1995 Assistant Professor, Miyazaki Medical College Department of Laboratory Medicine,

1995-1997 Lecturer, Miyazaki Medical College Department of Laboratory Medicine Lecturer

1997-2003 Director of Internal Medicine and Hematology/Oncology Medicine, Health Insurance Amakusa Chuo General Hospital

2003-2005 Associate Professor Dept of Internal Medicine and Hematology/Oncology, Wakayama Medical University

2005-2016 Professor of Internal Medicine, Division of Hematology/Oncology, Department of Nursing, Junior College, University of Shizuoka

2005-2007 Assistant President, University of Shizuoka

2008-2010 Director of Library, Junior College, University of Shizuoka

2008-present Director, Physician, Center for Health Support Center, Junior College, University of Shizuoka

2008-present Director of Infection Control, University of Shizuoka

2012-2015 Member of President Strategy Committee

2014-2016 Dean Junior College, University of Shizuoka

2016-present Professor of Internal Medicine, Division of Hematology/Oncology, Basic Medicine Department of Nursing, University of Shizuoka

Specialty: Internal Medicine, Hematology/Oncology, Blood Coagulation and Fibrinolysis, DICology, Collagen-Vascular Disease, Infections**Memberships :**

International Society of Thrombosis and Hemostasis,
The Japanese Society of Hematology (Delegates),
The Japanese Society of Thrombosis and Hemostasis (Delegates),
The Japanese Society of Thrombosis and Hemostasis, Committee on DIC Study in Japan
The Japan Society for Organ Preservation and Medical Biology (Delegates),
The Japanese Society of Internal Medicine, The Japanese Society of Blood Transfusion and Cell
Therapy,
The Japanese Society of Atherosclerosis Society, The Japanese Society of Laboratory Medicine,
The Japanese Society of Vascular Biology,
The Japanese Biochemical Society

Patent:

- 1) A NEW SOLUTION FOR PROLONGED ORGAN PRESERVATION (Application for United States
Getters Patent)
- 2) Development of a method for extracting body fluid components from superabsorbent polymers - A new
method for measuring ketone bodies in urine using paper diaper – (Japanese Patent No. 4550192,
1999.11.22) Shin Koga (Internal Medicine), Keiichi Taku (Pediatrics)
- 3) Disposable diaper for detecting ketone bodies in urine. (Patent Application No. Japanese Patent Application
No. 2016-075177) Shin Koga (University of Shizuoka).

Professional license Certification:

Medical License (1985)
Certified Internal Medicine Physician (1995)
Industrial Physician Certified the Japan Medical Association (2001)
Specialist Certification of The Japanese Society of Hematology (2002)
Advising Doctor of The Japanese Society of Hematology (2002)

Research Theme:

- 1) Research and development of new molecular markers for thrombosis, such as myocardial
infarction, cerebrovascular disease and pulmonary infarction
- 2) Study of mechanisms of cancer metastasis and research of molecular markers for the early
diagnosis of cancer
- 3) Research of molecular markers for diagnosis, and prognosis of sepsis
- 4) Clinical research on the examinations for early diagnosis of DIC and treatment for DIC
- 5) Identification of the onset high-risk group of adult T-cell leukemia (ATL) and study on prevention
of ATL onset
- 6) Identification of hypoglycemia inducing substance derived from ATL
- 7) Study on the treatment and analysis of the pathogenesis of polymyalgia rheumatica (PMR)
- 8) Study of coagulation and fibrinolysis with a focus on vascular endothelial cells
- 9) Study on the treatment and prevention of metabolic syndrome
- 10) Early diagnosis of infection and pneumonia , Mechanism of severe pneumonia

- 11) Study on control and prevention of hypertension, osteoporosis by improvement of lifestyle diseases
- 12) Possibilities of novel diapers (Development of detection for dehydration in early stage!)

Main Papers:

1. Shin Koga, et al. Dynamic aspects of thrombus formation in mutant analbuminemic rats. *Thrombosis Research* 58:633-643,1990.
2. Shin Koga, et al. Synthesis and Release of Interleukin-1 by Reoxygenated Human Mononuclear Phagocytes. *J.Clin.Invest.*90:1007-1015,1992.
3. Revati Shreeniwas, Shin Koga, et al. Hypoxia-Mediated Induction of Endothelial Cell Interleukin-1 α : An Autocrine Mechanism for Promoting Expression of Leukocyte Adhesion Molecules on The Vessel Surface. *J. Clin. Invest.* 90: 2333-2339, 1992.
4. Mehmet C. Oz, Shin Koga, et al. Novel Preservation Solution Permits 24 Hours Preservation In a Rat and Baboon Cardiac Transplant Model. *Circulation*, 88, 291-297, 1993.
5. David J. Pinsky, Mehmet C. Oz, Shin Koga, et al. Cardiac Preservation Is Enhanced in a Heterotopic Rat Transplant Model by Supplementing the Nitric Oxide Pathway. *J. Clin. Invest.* 93: 2291-2297, 1994.
6. S. Koga, S. et al. TNF modulates endothelial properties by decreasing cAMP., *Am. J. Physiol.* 268, (5)(Cell Physiol. 37): C1104-1113, 1995.
7. Jun-ichirou Yasunaga, Shin Koga, S. et al. Impaired production of naive T lymphocytes in human T-cell leukemia virus type I-infected individuals:its implications in the immunodeficient state.*Blood* 97 (10):3177-3183,2001.
8. Shin Koga, et. al.. A novel molecular marker of soluble fibrin monomer-fibrinogen complex is quite valuable for differential diagnosis of septic pneumoniae and simple pneumoniae. **JTH3(1):87, 2005.**
9. Satoshi Gando, Hideo Wada, Hidesaku Asakura, Shin Koga, et al. Evaluation of New Japanese Diagnostic Criteria for Disseminated Intravascular Coagulation in Critically Ill Patients.*Clin Appl Thrombosis/Hemostasis*/11(1):71-76,2005.
10. Mariko Watanabe, Shin Koga, et al. Dual targeting of transformed and untransformed HTLV-1-infected T cells by DHMEQ, a potent and selective inhibitor of NF- κ B, as a strategy for chemoprevention and therapy of adult T-cell leukemia.*Blood*106(7):2462-2471,2005.
11. Hidesaku Asakura, Hideo Wada, Kohji Okamoto, Shin Koga, et al. Evaluation of haemostatic molecular marks for diagnosis of disseminated intravascular coagulation in patients with infections. *Thrombosis and Haemostasis* 95:282-287,2006.

12. Hitoshi Matsuoka, Atsuko Tsukamoto, Akihiko Shiraishi, Shin Koga, et al. Efficacy of intravenous ciprofloxacin in patients with febrile neutropenia refractory to initial therapy. **Leukemia and Lymphoma**47(8):1618-1623,2006.
13. Shin Koga, Shigekazu Tamimoto, Mikio Yonemura, Shingo Yamada, Jorge Sakurai, CLINICAL SIGNIFICANCE OF HMGB-1, SF AND PAI-1 AS A VITAL- PROGNOSIS MARKER, *J Thromb Haemost* 2007; 5 Supplement.
14. Wada H, Asakura H, Okamoto K, Iba T, Uchiyama T, Kawasugi K, Koga S, et al. Japanese Society of Thrombosis Hemostasis/DIC subcommittee. Expert consensus for the treatment of disseminated intravascular coagulation in Japan. *Thrombosis Research*.:Sep, 24. 2009.
15. Ikuro Maruyama, Shin Koga, et al. Expert consensus based on the evidence for the treatment of disseminated intravascular coagulation due to infection. :JSTH 20(1) 77-113, 2009
16. Kohji Okamoto , Hideo Wada , Tsuyoshi Hatada , Toshimasa Uchiyama , Kazuo Kawasugi ,Toshihiko Mayumi , Satoshi Gando , Shigeki Kushimoto , Yoshinobu Seki , Seiji Madoiwa ,Hidesaku Asakura , Shin Koga , Toshiaki Iba, Ikuro Maruyama and Japanese Society of Thrombosis Hemostasis/DIC subcommittee.:Frequency and hemostatic abnormalities in pre-DIC patients. *Thrombosis Research* 126 (2010) 74-78.
17. Wada H, Asakura H, Okamoto K, Iba T, Uchiyama T, Kawasugi K, Koga S, et al. Japanese Society of Thrombosis Hemostasis/DIC subcommittee. Expert consensus for the treatment of disseminated intravascular coagulation in Japan. *Thrombosis Research*.January 2010, Pages 6-11.
18. Shin. Koga. et al.: Junior College, University of Shizuoka Health Support Center Annual Report 2011 (2011. 04-2012. 03).
19. Shin Koga, et. al..A novel molecular marker of Soluble Fibrin Monomer Fibrinogen Complex is quite useful for differential diagnosis of Septic Pneumonias and Simple Pneumonias. The 10th China Japan International Symposium on Health Sciences Program and Abstracts: p10-11, 2012.
20. Shin Koga, et. al. : Consider the cooperation with foreign nurses - from the standpoint of the doctor -With the aim of nursing human resource development of recycling in Asia. University of Shizuoka 25th Anniversary International Nursing Forum 2013, 17th-18,th (2012.3.20).
21. Shin. Koga. et al.: Junior College, University of Shizuoka Health Support Center Annual Report 2012 (2012. 04-2013. 03).
22. Shin. Koga. et al. : Evidence of Coagulation & Fibrinolysis molecular marker (TAT, SF, FMC, PIC)in DIC diagnosis. 7th The Japanese Society on Thrombosis and Haemostasis Scientific standardization Committee Symposium

2014(SSCS 2103):p36-42, Jan. 12th, 2013.

23. Shin, Koga, et al.: Junior College, University of Shizuoka Health Support Center Annual Report 2013 (2013. 04-2014. 03).
24. Expert consensus based on the evidence for the treatment of disseminated intravascular coagulation due to infection. (Additional version): Japanese Society on Thrombosis and Haemostasis Scientific Standardization Committee / DIC subcommittee. Japanese Society on Thrombosis and Haemostasis Journal 25 (1): 123-125, 2014.