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Anesthetist-in-Chief Massachusetts General Hospital Henry Isaiah Dorr Professor of Anaesthetics and Anaesthesia Harvard Medical School

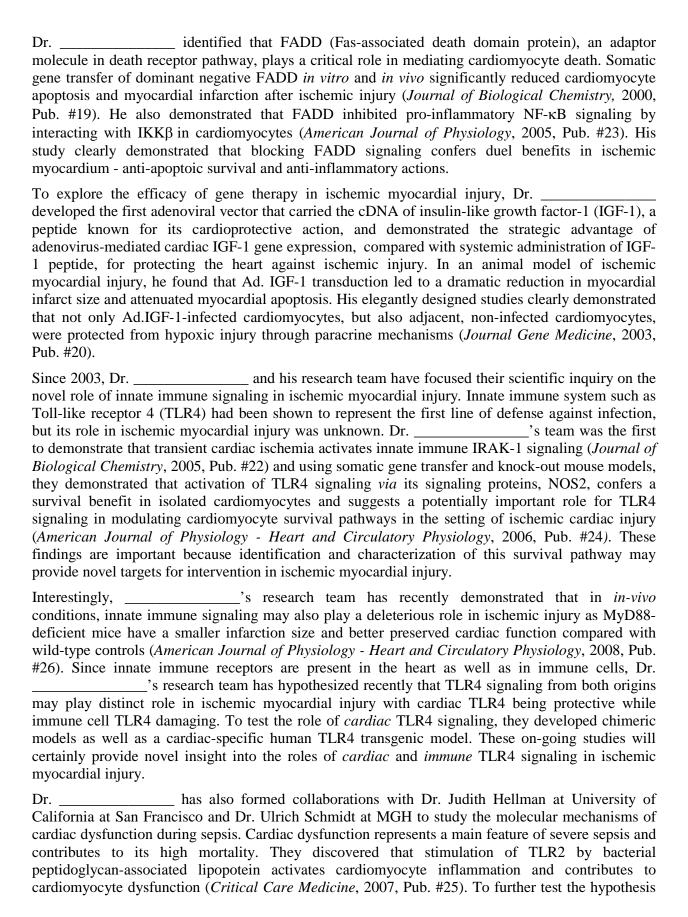
DATE XXXXXX

George Q. Daley, M.D., Ph.D. Dean of the Faculty of Medicine Harvard Medical School 25 Shattuck Street Boston, Massachusetts 02115

Dear Dean Daley:

It is with utmost enthusiasm that we propose	. M.D., Ph.D. for consideration
of promotion from Assistant Professor of Anaesthesia to Harvard Medical School by the area of excellence of Investigactivities: Clinical Expertise and Service to the Communication distinguished record of contribution in each, well as in Teaching	Associate Professor of Anaesthesia at ation. He has two significant supporting nunity. Dr has a
Dr received his M.D. from Hunan Medicator to the United States, where he enrolled in 1986 in the Ph.D. Biomedical Sciences at the University of Texas Health Sciences Merle S. Olson's laboratory were primarily focused on plately inflammatory mediator. He identified PAF biosynthesis and and investigated the role of PAF in tissue injury. He was Excellence in Doctoral Studies in two consecutive years, doc After completing graduate school in 1991 and a brief postd Roger Spragg's group in the Division of Pulmonary and Criticinvestigated the regulatory effect of lung surfactant on huncucial experimental evidence and a clear rationale for using agents in treating ARDS patients.	D. program of the Graduate School of ence Center. His Ph.D. studies in Prof. et-activating factor (PAF), a potent proits novel binding sites in hepatic cells, as recognized by awards in Academic cumenting his outstanding performance. octoral fellowship, he joined Professor ical Care Medicine of UCSD. There, he man neutrophil function, demonstrating
We were exceptionally pleased in 1996 to recruit Dr residency in anesthesiology. He pursued the physician-scien investigating the efficacy of gene transfer in care Rosenz g of the MGH Cardiovascular Resersidency in 1999, he joined the HMS faculty as Instructor Anesthesia and Critical Care at MGH. He established an indehas gained consistent research funding including from NIH, A for Anesthesia Education and Research, and William F. Mil	tist pathway during residency training, ardioprotection with Dr. Anthony earch Center. Following completion of r in Anaesthesia in the Department of ependent research program in 2003 and American Heart Association, Foundation

His research team has concentrated on studying the novel role of innate immune Toll-like receptor (TLR) signaling in ischemic cardiac injury. He was promoted to Assistant Professor in Anaesthesia in 2003. In addition to scientific investigation, Dr
funding in an important basic science area while also contributing to the MGH Department of Anesthesia & Critical Care as an outstanding clinician and teacher.
Investigation
Contributions/Activities
For over 10 years prior to and since his arrival at MGH and Harvard Medical School, Dr
Defining the hepatic effect of platelet-activating factor (PAF): PAF is a potent phospholipid inflammatory mediator released in many pathological conditions such as asthma, bacterial sepsis, acute lung injury, hepatic injury, and chronic pancreatitis. While he was at the University of Texas, Dr identified and characterized PAF biosynthesis and its novel receptors in the hepatic system under various pathological conditions. He went on to extensively characterize the regulatory mechanisms of PAF receptors and their role in inflammatory injury in chronic pancreatitis and hepatic injury. These studies provided novel insights into the molecular mechanisms by which PAF signaling is regulated and the specific roles of PAF in tissue injury. These studies resulted in a number of publications in peer-reviewed scientific journals such as <i>Journal of Biological Chemistry</i> , <i>American Journal of Physiology, American Journal of Pathology, Biochemical Journal, Archive of Biochem and Biophys</i> , and <i>Biochem Biophy Acta</i> (Pub. #3 - #15, and #18 on his CV).
Defining the molecular mechanism by which lung surfactant attenuates neutrophil function: Dr investigated the regulatory effect of synthetic (KL ₄) and native porcine surfactant on respiratory burst oxidase activity in human neutrophils. He demonstrated that porcine lung surfactant inhibited the assembling of cytosolic p46 ^{phox} and p67 ^{phox} components and attenuated the activity of NADPH oxidase, the enzyme catalyzing production of superoxide, a free radical released from neutrophils and causing lung injury during ARDS. These pioneering studies provided crucial experimental evidence and a clear rationale for using surfactant, both native and synthetic, as potential therapeutic agents in treating ARDS patients. These studies were published in Journal of Clinical Investigation (Pub. #16) and American Journal of Respiratory Cell and Molecular Biology (Pub. #17).
<u>Ischemic myocardial injury</u> : For the past 10 years, Dr



that TLR2 signaling is critical for sepsis pathogenesis, Dr
Recognition
Dr
Currently, Dr is Principal Investigator of a NIH R01 grant (2007-2012) and a Grand-in-aid (2007-2010) from American Heart Association. Dr has served as a study-section member for American Heart Association and American Society of Anesthesiologists. For the past three years, Dr has been invited by the National Natural Science Foundation of China (NSFC), the largest research-funding agency in China, as a consultant reviewer in two of its study sections (Cardiovascular Pharmacology and Clinical Medicine-Basic Science). Finally, because of his academic achievements, Dr was elected to membership in the Association of University Anesthesiologists, the most prestigious society of academic anesthesiology in the USA.
Scholarship
The quality of Dr

Foundation for Anesthesia Education and Research. Since 2003, Dr has
successfully established himself as an independent investigator. His current funding is via an
NIH/NIGMS R01 and a Grant-in-Aid from the American Heart Association. He is also Principal
Investigator of several pending NIH grants including a RC-1, a Shared Instrument Grant and a R01
and Co-Investigator of one pending R01 grant. While Dr was the first author for
many of his previous publications, he has been the senior and corresponding author of his last 5
papers. Dr has an independent laboratory of approximate 1,200 square feet that is
located in the Cardiovascular Research Center at the MGH Charlestown Research Facilities. Dr.
has served as Reviewer for several national/international scientific and medical
journals, including American Journal of Physiology, Anesthesiology, Circulation, Cytokine, Journal
Leukocyte Biology, Life Science, and Journal of the American College of Cardiology.
Leukocyte Biology, Life Science, una Journal of the American Cottege of Caratology.
Merit consideration of proposed promotion/appointment
Dr clearly merits promotion to Associate Professor of Anaesthesia at Harvard
Medical School in the area of excellence of Investigation: (1) he is an independent investigator who
has established an active R01-funded research program; (2) he has an excellent track record with
high quality scientific publications that have significantly advanced knowledge of innate immunity
function and ischemic heart disease; (3) he has a record of consistent grant support, including serving
as PI of two NIH grants and several foundation grants; and (4) he has gained national and
international reputations by his innovative research. Moreover, Dr has an
outstanding record in teaching, clinical expertise and education, which I will describe in the
following sections.
Teaching
Dr has been a dedicated teacher of students, residents and fellows since joining
the faculty of Harvard Medical School and MGH. In addition to his regular clinical teaching of
medical students and anesthesia residents in the MGH operating rooms, Dr has
served each summer as a tutor in the highly regarded Clinical Tutorial Program of the MGH
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Department of Anesthesia and Critical Care. As a tutor, he has dedicated two entire weeks each year,
full-time to the introductory clinical education and training of a single incoming resident. He has
served as a faculty advisor and preceptor for MGH anesthesia residents. Dr has
delivered and received excellent evaluations for teaching lectures (e.g., Anesthesia Postoperative
Care) to the anesthesiology residents as part of our educational curriculum. His excellent teaching
skills are revealed by the praise that he receives from the anesthesia residents he supervises in the
MGH operating room and on the obstetric floor. Dr is described in confidential
comments to the Chair by the residents as "Excellent teacher, wonderful clinician", "Excellent
supervision/independence balance", "Stimulating and fun to work with", "Excellent clinically and
very interested in teaching, even basic concepts were made more interesting by his teaching", "His
experience with research gives him unique taste ", "Excellent instructor, loves to teach, very
efficient. Very patient at teaching central lines", "Good research experience made him unique",
"Enjoyed working with him, knowledgeable", "Very helpful and great to work with".
Dr has actively participated in the department and hospital education missions.
He has given Grand Rounds lectures on topics of ischemic myocardial iniury and gene therapy:
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He has given Grand Rounds lectures on topics of ischemic myocardial injury and gene therapy: "Adenoviral Expression of IGF-I Prevents Cardiomyocyte Apoptosis" "Gene Therapy in Ischemic Heart Disease – Targeting Cardiomyocyte Apoptosis". He serves as a mock oral anesthesia Board

examiner and has advised senior residents on examination topics. He has enthusiastically served the MGH Office for Research Career Development as a member of its Steering Committee and Poster Review Committee. He was invited to present his research findings in the Nephrology Division, Department of Medicine, MGH and gave scientific presentations at the Harvard Anesthesia Annual Research Symposium that targets audiences that included staff anesthesiologists, cardiologists, neurologists, residents/clinical fellows, researchers, and medical students. Dr. ______'s teaching activities extend to the laboratory. He has mentored students, research assistants and research fellows who were commencing biomedical research. Specifically, Dr. _____ has mentored eight post-doctoral research fellows and one Harvard pre-med student, supervised one research assistant and 4 summer students. The scientific teaching involves daily interaction with trainees, weekly lab-meeting, and individual meeting, and includes a wide range of activities from experiment trouble-shooting, data analyses, scientific presentation, to manuscript/fellowship grant writing. Dr. ______'s teaching activities also include the lectures he delivered nationally and internationally. He presented his scientific findings as well as such topics as academic development as a clinician to graduate/medical students, postdoctoral fellows, faculties in many clinical departments and universities in the U.S and in China. He has been invited as visiting professor to give grand rounds and research lectures. Samples of his lecture topics include "Molecular mechanism of surfactant inhibition of neutrophil NADPH oxidase", "Status of anesthesia research in the U.S.", "Physician-scientist pathway in an US academic anesthesia department", "Role of TLR4 in ischemic cardiac injury: defensive or offensive?" "Role of innate immune signaling in ischemic myocardial injury". **Significant Supporting Activities** Clinical expertise Dr. ______ is qualified by Board certification in both anesthesiology and critical care. He has a particular interest and expertise in anesthesia for orthopeadic surgery, general surgery, and obstetrics. He has consistently practiced clinical anesthesiology ever since completing residency 10 years ago, making his research achievements even more remarkable. At present, he spends about 30% of his time providing clinical anesthesia. His clinical duties include providing perioperative anesthesia care for patients who undergo some of the most complicated surgeries, such as trauma resuscitation, thoraco-abdominal tumor resection, gastric by-pass in morbid obese patients, thoraciclumbar spinal fusion/instrumentation, and obstetric patients with severe complications of pregnancy. Many of these patients at MGH, often referred and transferred from other hospitals, are critically ill and have a history of severe ischemic cardiac disease. Dr. ______ is tireless and efficient in his clinical work. He is dedicated to his patients, and his clinical excellence has earned him the respect of his clinical colleagues in all associated services. He serves as one of key members on the orthopeadic anesthesia team that provides anesthesia care to one of busiest surgical services at MGH. He is also a member of the obstetrical anesthesia team at MGH, providing pain control for labor and delivery, and anesthesia care for cesarean section and other obstetrical surgeries. Dr. is the senior author of an obstetric anesthesia book chapter on the topic of Local Anesthetic - Pharmacology.

Service to the community

Sincerely yours,

Carl Perms

Carl E. Rosow, M.D., Ph.D. Provost, Professor of Anaesthesia and Chairman, DACCPM Promotions Committee Jeanine PNKM

Jeanine Wiener-Kronish, M.D. Henry Isaiah Dorr Professor of Research and Teaching in Anaesthetics and Anaesthesia