



# NOGUCHI MEDICAL RESEARCH INSTITUTE

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一般社団法人日本血栓止血学会  
理事長  
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## 米国・ペンシルバニア大学・小児科 フィラデルフィア小児病院に於ける研究者募集のご案内

拝啓 時下ますますご清栄のこととお慶び申し上げます。

私共米国財団法人野口医学研究所（以下、当財団と称す）は、今年創立 35 周年を迎えました。設立以降、医学教育&交流プログラムの一環として、米国への医学研修と国際医学交流の促進と実践を図り、毎年、米国を始めとする各大学・医学部並びに主要病院へ、数多くの日本人医師並びに医学生、看護師等医療従事者の留学支援を続けて参りました。これまでに送り出した留学生は 1,300 名に及んでいます。かくも教育・交流活動が順調に推移して来られたのも、偏に各位のご協力の賜物と感謝申し上げます。

さてこの度、当財団は、米国ペンシルバニア大学・小児科・フィラデルフィア小児病院（以下、CHOP と称す）との提携に依り、研究者支援基金を準備することになりました。

この基金は、CHOP に於ける研究者（血液学）を対象としており、研究の機会を提供するに留まらず、それら研究者滞在に必要なとされる経費への助成（滞在費：\$55,000+旅費及び学会参加費：\$5,000）を行います。尚、助成金の基本ファンドである水野基金（ミズノ・ファンド）は、当財団の初代理事長であった、故・浅倉稔生先生が CHOP の教授をしていた時代に設立された基金であり、その後長い時を経て、当財団と CHOP との間で新たに提携が成され、研究者たちへの更なる助成に役立つものとなりました。是非、一人でも多くの人にこの機会を活かして頂ければと考えております。付きましては、別紙にてプログラムの詳細をご案内させていただきますので、ご確認頂けますようお願い申し上げます。是非、一人でも多くの人にこの機会を活かして頂ければと考えておりますので、対象となり得る研究者へ広く周知して頂ければ幸いです。

ご多忙の処、誠に恐縮とは存じますが、何卒、宜しくお取り計らいの程、心よりお願い申し上げます。

敬具

**Mizuno Research Fund Post-Doctoral Fellowship Program for Japanese Researcher  
Children's Hospital of Philadelphia  
in Collaboration with the Noguchi Medical Research Institute**

**Invitation for Japanese Research Post-doctoral Fellowship in Benign Hematology**

**GOAL:**

To provide for 1-2 years of support, starting from April-July 1, 2019, to a Japanese scientist interested in a research training opportunity in benign hematology under the guidance of a member of the Division of Hematology at Children's Hospital of Philadelphia.

**OPPORTUNITY:**

The Mizuno Research Fund will support a Japanese scholar in collaboration with the Noguchi Medical Research Institute. Funding level is \$55,000 per year plus \$5,000 travel allowance with up to two years of support. Note, funds can be combined with other means of support. Will be paid on a monthly basis.

Children's Hospital of Philadelphia is one of the premier pediatric Institutions international and the Division of Hematology carries out outstanding research in the following areas:

- clotting and thrombosis
- bone marrow development
- bone marrow failure
- red cell biology
- megakaryocyte and platelet development

Please see the second page of this announcement for more details.

**CANDIDATE:**

1. Hold an M.D., Ph.D., M.D./Ph.D. or equivalent degree(s).
2. Is a post-doctoral, an instructor or is in the first three years of faculty position.
3. Japanese individual who is able to communicate well both in writing and speaking in English.
4. Prior related research experience, and
5. Able to be in the United States for the anticipated 1-2 years of support with appropriate visa.
6. Obtained Institutional permission to come for this training.

**APPLICATION PROCESS:**

Please forward the following before **September 30, 2018:**

1. Application form.
2. A cover letter including research experience of the candidate and future academic goals.
3. The candidate's curriculum vitae in English and Japanese.
4. A letter of reference/recommendation from the candidate's current/previous mentor or supervisor in Japan with a description of the candidate's potential for future academic success, past training and future academic opportunities back in Japan.
5. Screening : By documents and interview.
6. Please send to the application to :

〒105-0001

東京都港区虎ノ門1-12-9スズエ・アンド・スズエビル4階

米国財団法人野口医学研究所

医学教育&交流室 担当者宛

※封筒に『Japanese Research Fellow 応募書類在中』と記載すること。

<問い合わせ>

医学教育&交流担当

杉田恭子 / 櫻本享子

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## List of areas of research available with examples of potential projects.

### Coagulation

- Crystallographic and functional of coagulation factors
- Structure/function of coagulation Factor X: Clinical application
- Structure/function of coagulation Factor V: Clinical application
- Coagulation factor VIII and IX biology
- Structural and functional studies of Factor VIII increased specific activity mutations and their clinical application
- Immunomodulation of patients with hemophilia A and inhibitors
- Structure/function of thrombomodulin/thrombin
- Biology of FVII and its clinical application
- Studies of a rat model of hemophilia

### Thrombosis

- Spatial/temporal distribution of components in hemostasis/thrombosis
- Studies of the prothrombotic nature of HIT (heparin-induced thrombocytopenia)
- The biologic basis of thrombosis in immunothrombosis including HIT
- Platelet factor 4 in sepsis and NETosis

### Hematopoiesis/stem cell biology

- Epigenetic modulation of hematopoietic stem cells
- Lnk/STAT biology in hematopoiesis
- Role of ubiquitination in hematopoiesis

### Red blood cells and the hemoglobinopathies

- Studies of red cells, megakaryocytes/platelets using induced pluripotent stem cells
- Novel gene therapy for sickle cell disease, including chromatin looping or altering Bcl11 biology in red cells
- Biology of transcriptional factor GATA1 short
- Lentiviral gene therapy for the hemoglobinopathies
- Iron metabolism and hepcidin
- Macrophages and inflammation

### Megakaryocyte biology and platelet production

- Megakaryopoiesis and its clinical application including targeted-drug delivery
- Pulmonary in vivo thrombopoiesis

### Blood banking

- Blood banking related to molecular polymorphisms in the Rh locus

### Bone marrow failure

- Evolution of spontaneous clones in acquired aplastic anemia
- Niche biology in hematopoiesis post chemo-radiotherapy
- Novel vectors and strategies to enhance targeted therapy in the bone marrow