This is the first of what will be quarterly newsletters to inform faculty, staff, and trainees about developments of general interest within the Department of Pathology. We hope that this newsletter will help to keep all members of the department informed about the department’s activities and the achievements of its members.

If you have suggestions about the newsletter and its content, please contact Rob Krochak (RobK@Stanford.edu).

$3.8 MILLION IN NEW RESEARCH AWARDS

The State of California in January awarded six Stanford scientists $10.6 million to address technical bottlenecks in the progress of stem cell science and aid in the translation of stem cell therapies to the clinic. Two of these scientists are faculty members in the Department of Pathology, Dr. Irving Weissman, Virginia & D.K. Ludwig Professor for Clinical Investigation in Cancer Research (Professor of Pathology and Developmental Biology and Director of the Stanford Institute of Stem Biology and Regenerative Medicine) and Dr. Marius Wernig (Assistant Professor of Pathology and Member of the Stanford Institute of Stem Cell Biology and Regenerative Medicine). Dr. Wernig received $1.9 million to generate functional neurons from the skin cells of patients with a variety of brain diseases including schizophrenia, depression and autism. Dr. Weissman also received $1.9 million, to devise ways to use antibodies to isolate specific populations of tissue-specific stem cells from a mixture of differentiated embryonic stem cells.

FACULTY PRESENTATION TO ADMINISTRATIVE STAFF

Pathology faculty members are invited to make a brief presentation about their research programs at the monthly administrative staff meeting. On July 6th Dr. Edgar Engleman provided the staff with a layman’s view of a recent discovery regarding type-2 diabetes; work done by twin brothers, Dan and Shawn Winer, in collaboration with Ed Engleman. Dan Winer worked in Dr. Engleman’s laboratory while collaborating with his brother Shawn who was at the University of Toronto in Canada. Their discovery suggests that type-2 diabetes, largely believed to be a malfunction of the biochemical processes the body uses to regulate blood sugar, actually may be caused by an autoimmune response. Their findings open the door to new therapies and may even lead to a vaccine to prevent the disorder, which in the United States affects nearly 24 million people. The twins and their discovery were featured on the back cover of the 2011 summer edition of Stanford Medicine.

*Click here to see a tribute to Dr. Engleman’s father, who is still practicing rheumatology at UCSF. Dr. Ed Engleman appears in the video.
FACULTY RECRUITMENT

The Department recently concluded a search for an Assistant Professor in bioinformatic analysis of biological and disease mechanisms. This is a tenure track position that requires a major commitment to research and teaching. As stated in the advertisement for this position, the successful candidate is expected to establish a high quality, independent research program with a focus on basic and/or applied bioinformatics, which may include areas such as algorithm development, high-throughput analysis of physiological and pathological processes, structural genomics and biology, structure prediction and modeling, as well as biological and disease databases and applications. We are delighted that an exceptional candidate for this position has been recruited, Stephen Montgomery, Ph.D., who joined the Department on July 1, 2011.

The Department is also recruiting for two neuro-pathologists with an interest in neurodegenerative disorders. Each successful candidate will be expected to pursue his or her own research interests, as well as to participate in program project and core grants in the area of neurodegenerative disorders. The successful candidates also will contribute to the expansion of our diagnostic services in neuropathology, including by providing such services to clients outside of SUMC (through our consult service). Candidates must hold an M.D. or an M.D., Ph.D. and be board certified in anatomic pathology and neuropathology. As of the end of July offers have been extended to two candidates, and we expect that these new members of our faculty will arrive at Stanford at the beginning of the fall.

“A candidate for this position has been recruited, Stephen Montgomery, Ph.D., who joined the Department on July 1, 2011.”
PATHOLOGY TRAINEES COHORT
STARTED JULY 1ST

Each year, the Department welcomes new trainees, and some of our current trainees enter clinical fellowship programs to continue their training. The names of these individuals (alphabetically) and their medical schools and training tracks, are listed below.

For complete details regarding the various programs offered in Pathology, and to see pictures of trainees, click here.

We wish each of these talented individuals the best of luck as they pursue their careers as pathologists.

PATHOLOGY 2011 INCOMING RESIDENTS (New Faces):

<table>
<thead>
<tr>
<th>Name</th>
<th>Medical School</th>
<th>Medical Specialty</th>
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<tbody>
<tr>
<td>Hywyn Churchill, M.D.</td>
<td>Johns Hopkins University CP</td>
<td>CP</td>
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<tr>
<td>Martina Lefterova, M.D., Ph.D.</td>
<td>University of Pennsylvania CP</td>
<td>CP</td>
</tr>
<tr>
<td>Jean Oak, M.D., Ph.D.</td>
<td>University of California, Irvine AP/CP</td>
<td>CP</td>
</tr>
<tr>
<td>Christopher Soon, M.D.</td>
<td>University of Hawaii AP/CP</td>
<td>CP</td>
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<tr>
<td>Michael Clay, M.D.</td>
<td>University of Vermont AP/CP</td>
<td>CP</td>
</tr>
<tr>
<td>Christine Louie, M.D.</td>
<td>University of Pennsylvania AP/CP</td>
<td>CP</td>
</tr>
<tr>
<td>Brock Martin, M.D.</td>
<td>Indiana University AP/CP</td>
<td>CP</td>
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<tr>
<td>Alana Shain, M.D.</td>
<td>Stanford University AP/CP</td>
<td>CP</td>
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<tr>
<td>Sharon Wu, M.D.</td>
<td>George Washington University AP/CP</td>
<td>CP</td>
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A resident physician or resident (also called a house officer / senior house officer in the United Kingdom and several Commonwealth countries) is a person who has received a medical degree (MD, MBBS, MBChB, BMed, DO), Podiatric degree (DPM, BPod), or Dental Degree (BDS, DDS, BDent, DMD, BChD, BDS) and who practices under the supervision of fully licensed physicians, usually in a hospital or clinic. Residency training in pathology, which requires a medical degree, consists of three tracks: Anatomic Pathology (3 years), Clinical Pathology (3 years) and Anatomic and Clinical Pathology (4 years).

TABLE KEY

AP = Anatomic Pathology - is a medical specialty that is concerned with the diagnosis of disease based on the gross, microscopic, chemical, immunologic and molecular examination of organs, tissues, and whole bodies (autopsy).

CP = Clinical Pathology - is a medical specialty that is concerned with the diagnosis of disease based on the laboratory analysis of bodily fluids, such as blood, urine, and tissues using the tools of chemistry, microbiology, hematology and and molecular genetic pathology.
FELLOWSHIPS

Fellowships in pathology provide advanced training in subspecialty areas of pathology to those who already have completed an appropriate residency. In addition to its renowned Surgical Pathology fellowship program, the department has multiple other subspecialty programs: Cytopathology, Dermatopathology, GYN/Breast Pathology, Hematopathology, Molecular Genetic Pathology, Neuropathology, and Transfusion Medicine. Click here for more information regarding these fellowship programs.

The department also offers a post-sophomore fellowship program. The goal of the program is to offer medical students who have satisfactorily completed the preclinical medical school curriculum broad exposure to the practice of pathology in an academic medical center. Typically, these students are interested in pathology and this program helps them to decide whether to pursue this specialty.

- Jennifer Andrews, M.D.
  University of South Florida
  Transfusion Medicine Fellow

- Angela Arredondo, M.D.*
  Stanford University
  Molecular Genetic Pathology Fellow

- Rajeev Balasubramaniam, M.D.*
  SUNY Syracuse
  Hematopathology Fellow

- Theresa Boyle, M.D., Ph.D.
  Howard University
  Molecular Genetic Pathology Fellow

- Marian Butcher, M.D.
  LA State University
  Surgical Pathology Fellow

- Mika Fujiwara, M.D.*
  University of Vermont
  Surgical Pathology Fellow

- Charay Jennings, M.D., Ph.D.*
  Stanford University
  Dermatopathology Fellow

- Jonathan Kitayama, M.D.
  University of Hawaii
  Cytopathology Fellow

- Richard Kraus, M.D.
  University of South FL
  Surgical Pathology Fellow

- Teresa Kraus, M.D.
  University of South FL
  Hematopathology Fellow

- Frank Moore, M.D.
  LA State University
  Surgical Pathology Fellow

- Catherine Nguyen, M.D.
  University of Illinois
  Cytopathology Fellow

- Saul Offman, M.D.
  Dalhousie University, Canada
  GYN/Breast Pathology Fellow

- Lorraine Pan, M.D.
  New York University
  Surgical Pathology Fellow

- Lisa Pate, M.D.*
  Stanford University
  Transfusion Medicine Fellow

- Kerri Rieger, M.D., Ph.D.
  Stanford University
  Dermatopathology Fellow

- Natasha Savage, M.D.
  Medical College of Georgia
  Hematopathology Fellow

- Gerlinde Wernig, M.D.*
  University of Vienna, Austria
  Hematopathology Fellow

POST-SOPHOMORE FELLOWS:

- Emilia DeMarchis
  Stanford University

- Daniel Roberts
  Stanford University

*These individuals obtained residency training at Stanford.

FUTURE BULLETINS:

If you have any suggestions on how to improve these newsletters, we would be happy to receive your comments and ideas, and if appropriate they will be incorporated in future newsletters.

Please direct your comments to Rob Krochak at Robk@stanford.edu