

MEMORANDUM

To: Pharm.D. Students in their P-1 and P-2 year,
Faculty, School of Pharmacy

CC: **V. A. Yanchick, Ph.D.,**
Dean, School of Pharmacy
W. E. Smith, Ph.D.,
Associate Dean, School of Pharmacy
T. Reinders, Pharm.D.,
Associate Dean, School of Pharmacy
R. Westkaemper, Ph.D.,
Director, Graduate Program, Dept. of Medicinal Chemistry
H.T. Karnes, Ph.D.,
Director, Graduate Program, Dept. of Pharmaceutics
D. Holdford, Ph.D.,
Director, Graduate Program, Dept. of Pharmacotherapy and Outcomes
Sciences
S. T. Sawyer, Ph.D.,
Director, Graduate Program, Dept. of Pharmacology and Toxicology
S. Wu-Pong, Ph.D.,
Director, Graduate Studies, School of Pharmacy

Date: February 1, 2010

From: Jürgen Venitz, MD, Ph.D.
Chair, Pharm.D./M.S./Ph.D. Subcommittee



RE: ***Availability of Summer Research Fellowships for P-1 and P-2 Students***

1. Dean Yanchick has again graciously made available A. D. Williams and School of Pharmacy Summer Research Fellowships for the summer of 2010. The intent of these fellowships is to allow Pharm.D. students in their first and second year to work on a two-month research project with graduate faculty sponsors and to gain insight and interest in graduate-level research by pharmaceutical scientists. Successful completion of one of these fellowships is a prerequisite for admission into the combined Pharm.D./Ph.D. program; however, acceptance and completion of a fellowship is neither a commitment by the student to nor a guarantee by the School of Pharmacy of admission into the combined degree program (Pharm.D./Ph.D. and Pharm.D./M.S.). Application into the combined degree program is a separate process.
The Pharm.D./M.S./Ph.D. Subcommittee has been charged with the selection of the fellowship candidates and administration of the fellowships.
A graduate faculty member may sponsor only one student applicant per year. In view of the limited number of fellowships available, previous recipients of a Summer Research Fellowship are eligible for a second award only if strong justification can

be offered.

2. First- and second-year students interested in the fellowship are encouraged to identify and contact individual graduate faculty about their areas of interest. The following faculty (members of the Pharm.D./M.S./Ph.D. Subcommittee) are willing to assist students in the process:

Kai I. (Annie) Cheang, Pharm.D., M.S., Dept. of Pharmacotherapy and Outcomes Sciences, kicheang@vcu.edu

Ronald E. Polk, Pharm.D., Dept. of Pharmacotherapy and Outcomes Sciences, rpolk@hsc.vcu.edu

Stephen T. Sawyer, Ph.D., Dept. of Pharmacology and Toxicology, ssawyer@vcu.edu

Patricia W. Slattum, Pharm.D., Ph.D., Dept. of Pharmacotherapy and Outcomes Sciences, pwslattu@vcu.edu

Douglas Sweet, Ph.D., Dept. of Pharmaceutics, dsweet@vcu.edu

Jürgen Venitz, MD. Ph.D. (Chair), Dept, of Pharmaceutics, jvenitz@vcu.edu

Shijun Zhang, Ph.D., Dept. of Medicinal Chemistry, szhang2@vcu.edu.

Additional information about ongoing research in the various individual research labs can be found on the School of Pharmacy website.

3. The fellowship recipients will receive a stipend in the total amount of \$2,500 for the two-month summer period starting May 15, 2010; the beginning and finish of the project will be agreed upon in advance by the student and graduate faculty sponsor. The graduate faculty advisor will discuss and agree upon the logistics and expectations of the fellowship in advance. The graduate faculty sponsor will be responsible for all resources related to the research project. Upon completion of their projects, the fellowship students are required to submit a **final research report by September 15, 2010** to the Pharm.D./M.S./Ph.D. Subcommittee. This final research report will be two to five pages in length (excluding bibliography, figures and tables) and contain Background, Objectives, Methodology and Results and Discussion sections; it will have to be reviewed and signed by the graduate faculty sponsor prior to submission. It is also expected that the student will present the results of his/her research as a poster at the School of Pharmacy Research and Career Day in the fall of 2010. A hardcopy of that poster presentation may be submitted in lieu of the formal research report (see above).
4. Interested students will have to **apply for these fellowships by March 29, 2010**; the application form is attached.. Completed application packages will have to be submitted to Dr. Venitz, Chair, Pharm.D./M.S./Ph.D. subcommittee.

The application package has to include the following:

- A completed **Application Form** (see attached);
- A **Letter of Support** from the prospective graduate faculty sponsor (outlining the students ability to successfully complete the project and expressing the sponsor's willingness to provide guidance for the students and all necessary resources for the research);

- A one-page **Research Proposal** (including Background, Objective and Methodology of the proposed research);
- A **Statement of Research Interest** by the student (outlining their previous research experience, if any, and their expectations in the summer fellowship project, interest in the combined degree program and their future professional goals).

Selection criteria for a successful application include strength of the candidate (as documented by GPA, prior research experience, graduate faculty sponsor recommendation and personal statement by the student) as well as strength of the research proposal (feasibility and scientific validity).

5. The Pharm.D./M.S./Ph.D. subcommittee will start reviewing applications after March 30, 2010. Final selections will be made by April 19, 2010, and the student applicants will be informed shortly thereafter by Dean Yanchick. The fellowships will start no sooner than May 15, 2010 (end of spring semester) and end no later than August 15, 2010 (start of fall semester). **Final research reports are due by September 15, 2010.**
6. So far, the following SOP faculty have indicated that they are willing to interview interested candidates for specific summer projects in 2010. Please contact the individual faculty directly for further information about these projects.

Dept. of Medicinal Chemistry:

Dept. of Pharmaceutics:

D. H. Sweet, Ph.D.: *Role of Organic Anion Transporters in the Renal Elimination of Fluoroquinolone Antibiotics* (dsweet@vcu.edu);

J. Venitz, MD, Ph.D.: *Clinical Pharmacology of Cholinergic/Anticholinergic Agents* (jvenitz@vcu.edu).

Dept. of Pharmacotherapy and Outcomes Science:

K. I. Cheang, Pharm.D., M.S.: *Modulators of Cardiovascular Risk in Women* (kicheang@vcu.edu);

S. E. Harpe, Pharm.D., Ph.D., M.P.H.: *Validation of Data Sources Used in Pharmacoepidemiology and Outcomes Research* (seharpe@vcu.edu);

M. J. Kennedy, Pharm.D.: *Evaluation of Nephrotoxicity in Aminoglycoside-Treated Newborn Infants* (mjkennedy@vcu.edu);

G. R. Matzke, Pharm.D.: *Economic and Regulatory Barriers to Patient Access to Pharmaceuticals and Pharmaceutical Care* (gmatzke@vcu.edu);

L. R. Moczygemba, Pharm.D., Ph.D.: *Medication Therapy Management in*

Underserved Populations (lrnocygemba@vcu.edu);

P. W. Slattum, Pharm.D., Ph.D.: *Medication-Related Problems Identified by Pharmacists in Assisted-Living Residents and Acceptance of Pharmacist's Recommendations* (pwslattu@vcu.edu).

Others:

Other School of Pharmacy/Dept. of Pharmacology and Toxicology graduate faculty may also be contacted as well to discuss their interest in advising summer students and their availability for summer research projects.

7. The following students (and their summer research advisors) were recipients of past Pharm.D./Ph.D. Summer Fellowship awards and can be contacted to discuss their experiences; students currently enrolled in the combined degree program are marked by asterisk (*: current student; **: graduated with Pharm.D./M.S. or Pharm.D./Ph.D.):

1999: **Yin Zhang**** (S. Wu-Pong, Ph.D.), **Ian Orensky**** (Cy. K. Kirkwood, Pharm.D.), **Patricia Kim** (M.A. Sarkar, Ph.D.), **David Adams** (N. Carroll, Ph.D.), **Shy Yom** (D. Holdford, Ph.D.).

2000: **Darlene Giugliano** (P.W. Slattum, Pharm.D., Ph.D.), **Blake Keller** (J. Venitz, MD, Ph.D.), **Daniel Lineberry*** (H.T. Karnes, Ph.D.), **Janelle Rodas** (M.A. Sarkar, Ph.D.), **Robert Faulkner** (M.A. Sarkar, Ph.D., W.R. Garnett, Pharm.D.).

2001: **Satjit S. Brar**** (J. Venitz, MD, Ph.D.), **Daniel Phipps** (P.W. Slattum, Pharm.D., Ph.D.), **Sarah Poston** (M.A. Sarkar, Ph.D.).

2002: **Lisa Burroughs-Phipps**** (P.W. Slattum, Pharm.D., Ph.D.), **Vera Roberts** (M. Pyles, Ph.D.).

2003: **David S. Lee**** (J. Venitz, MD, Ph.D.), **Melissa Moore**** (R. Polk, Pharm.D.), **Jenny Chen** (S. Wu-Pong, Ph.D., H. Fillmore, Ph.D.), **Seina Parks**** (D. Brophy, Pharm.D., M.S.).

2004: **Jason Neil** (Cy. Kirkwood, Pharm.D., D. Brokaw, Pharm.D.), **Elizabeth Herman**** (A. Cheang, Pharm.D.), **Mary Roslan** (L. Hill, Ph.D.), **Patrick J. Powell**** (R. Polk, Pharm.D.), **Michelle Alga** (Cy. Kirkwood, Pharm.D.), **Amanda Colquit** (A. Cheang, Pharm.D., M.S.).

2005: **Jeanese Reise** (A. Cheang, Pharm.D.), **Jaime Robenolt** (A. Lichtman, Ph.D.), **Amanda Schutt** (K. Goode, Pharm.D.), **Sheetal Dharia*** (P. Slattum, Pharm.D., Ph.D.), **Lee Clodtfelter** (W. Garnett, Pharm.D.), **Natalie Chen** (Cy. Kirkwood, Pharm.D.).

2006: **J. Timothy King*** (U. Desai, Ph.D.), **Ryan J. Leftwich** (R. Polk, Pharm.D.), **Sarah A. Burr** (P. Gerck, Pharm.D., Ph.D.), **M.A. Davis** (P. Byron, Ph.D.), **John Ejezie** (J. Venitz, MD, Ph.D.), **Akil Mousa** (P. Gerck, Pharm.D.),

Ph.D.).

2007: **Issa Nesheiw**a (B. Windle, Ph.D.), **Holly Gurgle** (A. Pakyz, Pharm.D.), **Mika Shima** (S. Zhang, Ph.D.), **Timothy Innocencio*** (R. Polk, Pharm.D.), **Stephanie Atueyi** (D. Brophy, Pharm.D., M.S.), **Antoinette Coe** (B. Goode, Pharm.D.), **Deanna Flora*** (P. Slattum, Pharm.D., Ph.D.), **Julie Villanueva** (A. Cheang, Pharm.D., M.S.).

2008: **Uyen Do** (S. Zhang, Ph.D.), **Rachel Miller** (P. Gerk, Pharm.D., Ph.D.), **Della Varghese*** (Cy. Kirkwood, Pharm.D.), **Richa Dua** (D. Brophy, Pharm.D., M.S.), **Shruti Brahmhatt** (P. Slattum, Pharm.D., Ph.D.), **Malini Krishnan** (J. Venitz, MD, Ph.D.).

2009: **Jason Quarles** (R. Polk, Pharm.D.), **Alex Lenhart** (S. Zhang, Ph.D.), **Che Chang** (J. Venitz, MD, Ph.D.), **Andrew Johnson** (K. Ellis, Ph.D.), **Melissa Reis** (R. Glennon, Ph.D.), **Michael Snow** (J. Peart., Ph.D.).

8. If you need any additional information, please contact Dr. Venitz at 828-6249 or e-mail to jvenitz@vcu.edu.