



UNIVERSITY OF MARYLAND
SCHOOL OF PHARMACY

**University of Maryland
School of Pharmacy
Shady Grove Campus**

A Concise Compendium of Pharmacy Related Opportunities for Involvement in the DC Metropolitan Region

May 2008



Dear Reader,

Welcome! We are members of the inaugural class of the Shady Grove campus for the University of Maryland's School of Pharmacy. The Shady Grove campus is part of the Universities at Shady Grove, the University System of Maryland's distance learning campus. Under the direction of Dr. David Knapp seven of us have worked together to prepare this guidebook of pharmaceutical opportunities in the DC Metro/Montgomery County area. The intent of this guidebook is to facilitate a broadening of connections between School of Pharmacy faculty members and students to the resources of this area. Granted there are many more opportunities for pharmacists in health care than are included in this book, but we chose to focus on the areas that are of most interest to our target audience. In this guidebook you will find opportunities for involvement in the areas of community and hospital pharmacy, government agencies, national pharmacy organizations, and biotechnology/pharmaceutical companies. We hope this guide provides a useful resource for those interested in furthering their experiences in pharmacy care.

Sincerely,

Class of 2011 Student Pharmacists:

Mike Akers

Minhee Kang

Melissa Kim

Rana Kim

Catherine Lee

Meghan McHenry

Solomon Yirdaw

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I. Biotechnology/Pharmaceutical

The Shady Grove Campus is located in one of the major areas for biotechnology in the United States. The I-270 corridor of Frederick and Montgomery County, Maryland contains more than 100 biotech firms. The close proximity to the federal government's research and regulating agencies may be a major contributing factor to the industry's rapid growth. Most biotech companies share the same practical and collaborative needs, which most likely drive them to congregate to the same region. In addition, biotech companies are in need of highly skilled personnel. For this reason, academic institutions are a great resource to these companies.

The University of Maryland, School of Pharmacy (SOP) faculty and graduates can fulfill the demand for health care professionals in this promising industry. Student pharmacists will benefit from the expertise of the biotech firms through internships and guest speaker forums. The SOP has collaborated with many biotech firms on a variety of research projects, such as drug policy and development. The SOP has many departments and centers that serve a specific role in providing research support for these biotech firms. Among them is the Center for Nanomedicine and Cellular Delivery, as well as the Computer Aided Drug Design Center.

The recent opening of the Shady Grove campus provides an opportunity to help create and strengthen collaborative bonds with new and existing companies. Of more than 100 biotech companies that currently exist along the I-270 corridor, the directory includes a very limited number. The selected few have good potential to partner with the school for research and training. The included companies actively work in the pharmaceutical field in the areas of therapeutic drug discovery and development.

Author: Solomon Yirdaw



Avalon Pharmaceuticals

www.avalonrx.com

Overview

Avalon Pharmaceuticals is a biopharmaceutical company that focuses on unique cancer therapies. The company was founded in 1999 and went public in 2005. Avalon typically researches cancer pathways not yet exploited for drug development. Their research strategy is based on large-scale biomarker detection and observation called AvalonRx®.

Avalon Pharmaceuticals claims that their AvalonRx® discovery technique offers a more complete understanding of drug biological activity before the drug enters clinical trials. The pipeline currently includes small molecule drug candidates that will potentially be used for many types of cancer. Avalon Pharmaceuticals has partnerships with many other companies including Merck, MedImmune, ChemDiv, Medarex and Novartis. In the future, Avalon hopes to expand development to more disease areas including immune, inflammatory and cardiovascular applications.

School of Pharmacy Interests

A partnership with the School of Pharmacy's Computer-aided Drug Design (CADD) Center would most likely be mutually beneficial. The lead optimization methods used by CADD may be similar to Avalon's oncology drug discovery methods; therefore, they may be able to complement each other through research collaborations.

Opportunities for Involvement

- Job opportunities in research and development are available

Contact Info:

Avalon Pharmaceuticals
20358 Seneca Meadows Parkway
Germantown, MD 20876

Phone: 301-556-9900
Fax: 301-556-9910
E-mail: info@avalonrx.com

Additional Information:

Avalon has detailed descriptions of their drug discovery platform on their website.

Author: Meghan McHenry



Center for Advanced Research in Biotechnology

www.umbi.umd.edu/CARB

Overview

The Center for Advanced Research in Biotechnology (CARB) is located on the Shady Grove Campus and its mission is “To advance biotechnology by integrating molecular and biological science through research on biomolecular structure and function...” In the early 1980’s, with the hope to establish a life science research center in Montgomery County, the University of Maryland’s Biotechnology Institute and the National Institutes of Standards and Technology formed a partnership to establish CARB. Montgomery County welcomed the idea for the development of a research center, by joining as a third partner and donating the land on which CARB now sits.

Areas of research conducted at CARB include: biophysics and molecular interactions, genomics and proteomics, nanobiotechnology, pathobiology, structural biology, as well as computational biology and biophysics.

School of Pharmacy Interests

As the field of pharmacy begins to incorporate more biotechnology based drug designs, it is important that students graduate with the knowledge and competency to excel in this industry. With CARB located on the Shady Grove campus, there should be numerous opportunities to supplement the pharmacy program’s education through cooperative learning experiences. The Center for Advanced Research in Biotechnology may also provide opportunities for faculty interested in collaborative research.

Opportunities for Involvement

- CARB has interests in partnering with students on research projects
- CARB can serve as a resource for research topics related to biotechnology
- Paid and unpaid internships are available for students at all levels of education

Contact Info:

Center for Adv Research in
Biotechnology
9600 Gudelsky Drive
Rockville, MD 20850
Phone: 240-314-6000
Fax: 240-314-6255

Additional Information:

The CARB website has very useful information that describes faculty research areas and interests.

Author: Michael Akers



Human Genome Sciences, Inc.

www.hgsi.com

Overview

Human Genome Sciences (HGS) is located in Rockville, MD, and was founded in 1992. The goal of HGS is to create a global biopharmaceutical company that discovers, develops, manufactures, and markets gene-based drugs to address unmet medical needs. As of December 31, 2007, HGS holds almost 600 U.S. patents covering genes, proteins, antibodies and proprietary technologies. Additionally, HGS has filed U.S. patent applications covering many additional discoveries and inventions.

Due to the commercial success of its lead products, Human Genome Sciences has the financial strength to explore and develop new opportunities that will drive long-term growth. HGS has developed core competencies in the discovery and comprehension of human genes, and in the development of human protein and antibody drugs.

School of Pharmacy Interests

HGS carries the potential for significantly advancing the treatment of several diseases and medical conditions through its novel compounds. With the self-reliant capabilities for research, HGS is a good organization for those faculty and students interested in the areas of oncology, infectious disease, and drug development.

Opportunities for Involvement

- HGS opens up new possibilities for UMB's focuses on oncology, infectious diseases, quality assurance, and regulatory affairs.
- Several intern positions are available in areas, such as drug design, quality assurance, and regulatory affairs.

Contact Info:

Human Genome Sciences
14200 Shady Grove Road
Rockville, MD 20850

Phone: 301-309-8504
Fax: 301-309-8512
Corporate_Communications@hgsi.com

Additional Information:

Detailed information about the type of research HGS is currently involved with can be found in the Research & Development section of their website.

Author: Melissa Kim



MedImmune

www.medimmune.com

Overview

MedImmune is a worldwide pharmaceutical company which is based out of Maryland and focuses mainly on cancer, infectious disease, and inflammatory disease states. With several marketed products and numerous pipeline products, MedImmune is a leader in biotechnology based research and development and has over 3,000 employees worldwide. Of these 3,000 employees, there are approximately 30 pharmacists that are employed in a variety of areas within the company. Some of these areas include: marketing, science liaisons, formulations development, vaccine research, drug and medical development, clinical materials preparation, regulatory affairs, as well as competitive intelligence.

MedImmune is revolutionary in the development of medications and vaccinations, which pharmacists can utilize to educate patients on disease prevention in hospital and community settings. Within the company itself, pharmacists also bring insight that many other healthcare professionals may lack. For example, pharmacists provide an expertise in drug information, patient-focused experiences in the health care field, as well as the versatility to take on varying roles within the company.

School of Pharmacy Interests

****Need to connect MedImmune with a focus from the SOP**** With the Pharmacy School's new satellite location at the Shady Grove Campus, there is a great opportunity to become involved with MedImmune in new and innovative ways for those who may be interested in industry. This potential opportunity for involvement with MedImmune not only applies to students, but also to faculty as well.

Opportunities for Involvement

- Recently implemented post-graduate year 1 Pharm.D. residency opportunity in industry setting
- Rotation site in the area of drug information for student pharmacists
- Internships available in many different areas within the company

Contact Info:

MedImmune
One MedImmune Way
Gaithersburg, MD 20878

Phone: (301) 398-0000
Fax: (301) 398-8520
E-mail: info@medimmune.com

Additional Information:

MedImmune's Research and Development pipeline of products is available on their website under the link for "R&D Pipeline." The link has a useful chart showing the current phases of clinical trials for many of their products.

Author: Michael Akers



MiddleBrook Pharmaceuticals, Inc.

www.middlebrookpharma.com

Overview

MiddleBrook Pharmaceuticals, Inc. was founded in 2000. The company focuses on treatments for infectious diseases by developing new delivery systems. MiddleBrook Pharmaceuticals, Inc. is primarily known for their once daily regimen for antibiotics known as PULSYS®. This system would be attractive to patients who would generally need to take multiple doses of antibiotics throughout the day. With an easier regimen for antibiotic use, it would bring improved compliance and better treatment results. In doing so, the PULSYS® system addresses the concern surrounding antibiotic resistance.

School of Pharmacy Interests

The Center for Nanomedicine and Cellular Delivery at the School of Pharmacy (SOP) would be a good opportunity for collaboration. Both the Center for Nanomedicine and Cellular Delivery and MiddleBrook Pharmaceuticals, Inc improve upon new and existing therapeutics via researching novel drug delivery systems. There is a potential opportunity for the Center for Nanomedicine and Cellular Delivery to work in cohort with MiddleBrook Pharmaceuticals to incorporate the PULSYS® system into other classes of medication, improving medication compliance.

Opportunities for Involvement

- MiddleBrook Pharmaceuticals is a potential partner for future research collaborations.
- Externship or internship site

Contact Info:

Middlebrook Pharmaceuticals, Inc
20425 Seneca Meadow Parkway,
Germantown, MD, 20876
Phone: (301) 944-6600
Fax: (301) 944-6700
Job information;
recruitment@middlebrookpharma.com

Additional Information:

Detailed information regarding the development of antibiotics using the PULSYS® drug delivery system can be found on their website.

Author: Minhee Kang



Nabi Biopharmaceuticals

www.nabi.com

Overview

Nabi Biopharmaceuticals was founded in 1967 and its headquarters is located in Rockville, MD. This company's main focus is the application of vaccine antibody technologies, particularly in the areas of nicotine addiction and gram-positive bacterial infections, to meet unmet medical needs.

Nabi Biopharmaceuticals has a number of biopharmaceutical products that are being developed. Nabi utilizes research technology called Ring Expanded Nucleosides and Nucleotides (RENS) for the treatment of Hepatitis B and C. This vaccine technology is also used for the treatment of additional diseases, such as *Staphylococcus aureus* and kidney disease.

School of Pharmacy Interests

The research that Nabi conducts would be of interest to faculty in the Department of Pharmaceutical Sciences and students who are interested in pharmaceutical sciences as applied to vaccine therapies.

Opportunities for Involvement

- Faculty
 - Potential for research collaborations and partnerships based on the interest in smoking cessation and infectious diseases.
- Students
 - Possible job or research opportunities post graduation

Contact Info:

Nabi Biopharmaceuticals
12276 Wilkins Avenue
Rockville, MD 20852

Phone: 800-685-5579 OR

301-770-3099

Fax: 301-770-3097

Additional Information:

To learn more about products being developed refer to: <http://www.nabi.com/pipeline/index.php>

Author: Rana Kim



Novavax, Inc.

www.novavax.com

Overview

Novavax is a biotech company that utilizes virus-like particle technology (VLP) to develop novel vaccines. The vaccines are designed to treat infectious diseases that affect populations across the globe. The traditional approach to manufacture vaccines uses an egg-based or mammalian cell culture facility, which can cost up to \$600M and take 4 to 5 years to launch the facility. Instead, Novavax utilizes insect cell cultures and recombinant baculovirus in disposable systems, cutting costs down to a quarter of the traditional cost.

With this economical approach to vaccine manufacturing, Novavax can expand quickly to distribute supplies to regions in need of vaccine; especially during an outbreak of disease. In doing so, Novavax also generates new employment opportunities for scientists to help manufacture the vaccines and pharmacists to ensure the quality of product.

School of Pharmacy Interests

Novavax's innovative manufacturing system creates collaboration opportunities in research, particularly with the Department of Pharmaceutical Sciences by studying more efficient methods of developing pharmaceuticals from drug design to distribution. **Now that Maryland pharmacists have the authority to administer immunizations, working to improve the delivery of vaccines becomes more relevant to the pharmacy profession.**

Opportunities for Involvement

- Internships, as well as research associate positions, are available to provide opportunities for studying new methods of drug manufacturing and delivery.
- Novavax also offers a wide range of employment opportunities, from clinical research and immunology to auditing for quality assurance.

Contact Info:

NovaVax, Inc.
9920 Belward Campus Drive
Rockville, MD 20850

Phone: 240-268-2031
Fax: 240-268-2126
E-mail: hr@novavax.com

Additional Information:

Novavax, Inc. is currently in the clinical stage for the pandemic flu VLP vaccine, progressing towards meeting the global public health needs at a significantly faster and economically favorable pace with its portable manufacturing system.

Author: Melissa Kim



Otsuka American Pharmaceuticals, Inc.

www.otsuka.com

Overview

Otsuka American Pharmaceuticals, Inc (OAPI) is the U.S. subsidiary for biotechnological research for the Otsuka Pharmaceutical Co. based in Japan. OAPI specializes in the following therapeutic areas: cardiology, neuroscience, gastroenterology, oncology, renal function, respiratory, and ophthalmology. OAPI supports several national organizations and programs throughout Maryland.

Otsuka Maryland Medicinal Laboratories (OMML) is another subsidiary for the Otsuka Pharmaceutical Company. OMML's role is to conduct basic research, clinical studies and drug development for its parent company, OAPI. Areas of research include: cardiology, cell therapy, molecular research and technology, neuroscience, phosphodiesterase inhibitors and anti-thrombotic molecules. OMML was the first research center in the Shady Grove Life Sciences Center.

School of Pharmacy Interests

Several of the faculty from University of Maryland's School of Pharmacy may share similar research interests in the therapeutic areas under clinical trials. For example, a professor who focuses on the optimization of drug delivery devices to the lung or nose may work collaboratively with OAPI to provide insight into pharmaceutical applications of the drug in development. A biotechnology company is primarily concerned with the drug development research and clinical trial execution. Counseling from an educated and practiced individual in pharmacy practice might remove obvious obstacles in the various stages of drug development. Pharmacists will be able to guide the practical development of a drug from the lab to the bedside. Some of these translations are not so obvious to biotech firms so pharmacists act as an important resource to dispense basic health knowledge to researchers.

Opportunities for Involvement

- Research interests of the Department of Pharmaceutical Sciences at the School of Pharmacy may coincide with the clinical studies and areas of research of OAPI.

Contact Info:

Otsuka American
Pharmaceuticals
2440 Research Blvd.
Rockville, MD 20850

Phone: 301 - 424 - 9055
Email: Debra.Kaufmann@otsuka.com

Additional Information:

Otsuka was involved with the promotion and development of Abilify®, Pletal® and Zegerid®.

Author: Catherine Lee



VIRxSYS Corporation

www.virxsys.com

Overview

VIRxSYS was founded in Gaithersburg, Maryland in 1988. Its mission is the development of gene-based therapies using lentiviral vector-based delivery system. VIRxSYS has patented a gene delivery system from a human lentivirus for the treatment of diseases, such as HIV/AIDS. The delivery system is based on removing the disease component from the virus while using the remainder as a therapeutic load carrier.

According to the company's web site, the first novel gene delivery technology was applied to HIV treatment as a phase I study. Successes from this technology have allowed VIRxSYS to continue its research in the clinical studies track as the only lentiviral vector gene delivery system.

School of Pharmacy Interests

VIRxSYS is in the process of expanding applications for its technology . This includes the development of an HIV vaccine, as well as treatment for certain cancers, and genetic diseases. In this regard, the company and the School of Pharmacy's Computer Aided Drug Design Center (CADD) can foster a beneficial partnership. CADD's experience in research projects, which include identifying active compounds for metabolic processes, significantly align with VIRxSYS' line of research.

Opportunities for Involvement

- Research collaboration with SOP centers like CADD
- Internships for students interested in industry
- Employment opportunities for PharmD graduates

Contact Info:

VIRxSYS Corporation
200 Perry Parkway, suite 1A
Gaithersburg, MD 20877

Phone: 301-987-0480
Fax: 301-987-0489
E-mail: gmcgarrity@virxsys.com

Additional Information:

The company's web page has useful links to descriptions of gene therapy and HIV/AIDS.

Author: Solomon Yirdaw

II. Community Pharmacy

Community pharmacy acts as a front-line health care system, interacting directly with patients. As the last line of defense, pharmacists play an essential role in patient care by ensuring that patients are receiving appropriate medication therapy. Even though there has been an increase in the number of students interested in residency programs and non-traditional pharmacy employment, most graduates still choose community pharmacy as their career pathway.

Chain pharmacies, consisting of about 70 % of the country's total outpatient prescription volume, can be divided into traditional, supermarket and mass merchant pharmacies. Each of these pharmacy types provides similar opportunities for pharmacy students such as rotations and internship programs. They also market themselves with well-developed websites and advertisements at meetings of national organizations and career fairs. For the intent and purposes of this guidebook, however, we decided to focus more on independent and specialty pharmacies. We have included chain pharmacies and other community pharmacies as a directory in the appendix. The pharmacies described in this section are examples of how independent pharmacies can carve a niche for themselves in an increasingly competitive market. Whether it is through building lasting relationships with their patients, customizing drug therapies, or offering a specialty not provided at most locations, these pharmacies have molded their operations into services needed by the community.

In August of 2007, the University of Maryland's School of Pharmacy expanded its PharmD program to the Shady Grove campus in Rockville in an effort to meet the nationwide deficiency of pharmacists. Through its Experiential Learning Program, the School of Pharmacy's Department of Pharmacy Practice and Science prepares students for their careers after graduation. The close proximity to Washington, DC and the surrounding area offers tremendous opportunities for the students as well as possibilities for future partnerships with the school.

Author: Minhee Kang



Blue Mountain Apothecary

www.bluemountainrx.com

Overview

Blue Mountain Apothecary is one of the few pharmacies in the state of Maryland “that [specialize] exclusively in compounding prescriptions and natural products.” The pharmacy aims to personalize medications and herbal remedies to fit each individual patient. This is accomplished by bringing together new pharmacy technologies with traditional methods of making medication.

Blue Mountain Apothecary prepares medications in various dosage forms which include: animal treats, encapsulations, flavorings, gummies and lollipops, room sprays, therapeutic oils, tinctures, a variety of transdermal formulations, pain sticks, and troches.

School of Pharmacy Interests

With the development of automated manufacturing, compounding has become a less common practice of pharmacy, but still remains an important area of the profession. Blue Mountain Apothecary provides an interesting perspective to pharmacy that is not seen in most community pharmacies. Though compounding may not be as prevalent as it used to be, it is still a skill that student pharmacists must acquire. The acquisition of the skill not only includes the ability to compound, but also the understanding of the different formulations, routes of administration, as well as stability of the medication. Blue Mountain Apothecary would be a great place to further facilitate the experiences gained through the School of Pharmacy with respect to the art of compounding.

Opportunities for Involvement

- Work with autism support groups
- Speaking for women’s groups on topics such as bioidentical hormones
- Presentations by students on, but not limited to: chronic inflammatory conditions, digestion, sports medicine, selecting supplements, and kitchen pharmacy techniques.

Contact Info:

Blue Mountain Apothecary
9145 Guilford Rd #160
Columbia, MD 21046

Phone: 301-490-2353
Fax: 301-490-2376
E-mail: RxHERBinfo@aol.com

Additional Information:

Contact Dr. Lynn Shumake, owner and pharmacist of Blue Mountain Apothecary, to find out more about opportunities for involvement.

Hours of Operation

Monday through Friday from 12 p.m. to 6 p.m.

Author: Michael Akers



Cape Apothecary

www.capedrugs.com

Overview

Cape Apothecary is an independent pharmacy, which was founded in 1974 by Thomas J. Wilson. Specialty products and individualized care make Cape Apothecary an attractive service to the surrounding community. Customized dosages allow health care providers to tailor the dose in order to produce the best outcomes. This also allows both patient and veterinary medications to be formulated without additives.

The pharmacists at Cape Apothecary compound medications, such as hormone replacement therapy, into the desired dosage forms required by each patient using modern techniques and technology. Additionally, Cape Apothecary prides themselves with their familiarity regarding herbal remedies, homeopathic therapy and nutritional supplements, which allows them to be able to fully educate patients interested in alternative medicine.

School of Pharmacy Interests

Cape Apothecary participates in the School of Pharmacy Experiential Learning rotation program, giving students the opportunity to do rotations with the owner.

Opportunities for Involvement

- Cape Apothecary offers training to student and graduates.
- Their many specialties offer distinctive perspectives to the field of pharmacy and offer many chances for direct patient interaction and counsel.
- Cape Apothecary offers rotation experiences and residency collaboration.

Contact Info:

Cape Apothecary
1384 Cape St. Claire Rd
Annapolis, MD 21401

Phone: 800-248-5978
Fax: 410-974-1788
E-mail: drtomw@capedrugs.com

Additional Information:

Store Hours:
M-F 9am-6pm
Sat 9am-3pm
Closed Sunday

Author: Meghan McHenry



Morton's CARE Pharmacy

www.mortonscare.com

Overview

Morton's CARE pharmacy is a part of an organization of community pharmacies called CARE Pharmacies Inc. This organization's focus is to ensure that the members of independent pharmacies involved are profitable. Most of the community pharmacies that are a part of this organization are mainly based in the Maryland, DC, and Virginia areas.

Morton's CARE pharmacy has been providing health care to its community for over 15 years. The pharmacists specialize in providing quality healthcare and service to their customers through delivery services and patient counseling. This pharmacy features a Home Healthcare Place, which was formed for the anticipated increase in the elderly population in the community. The Home Healthcare Place provides patients with durable medical equipment for an easier recovery at home. Morton's CARE Pharmacy offers health screenings for osteoporosis, diabetes, and breast cancer, as well as administers flu shots in the community.

School of Pharmacy Interests

Morton's CARE Pharmacy can be a possible rotation option for the School of Pharmacy in the Experiential Learning Program. The experience at a long-term care pharmacy can provide students with a different experience than one at a traditional community pharmacy.

Opportunities for Involvement

- Internship as a pharmacy intern
- Possible rotation availability

Contact Info:

Morton's CARE Pharmacy
724 E Capitol St NE
Washington, DC 20003

Phone: 202-543-1616

Additional Information:

Morton's Pharmacy is a Medicaid provider, offering coverage for antiretroviral medications, and service to patients in the AIDS Drug Assistance Program (ADAP).

Author: Rana Kim



Ambulatory Care Pharmacy

www.fertilerus.com

Overview

Ambulatory Care Pharmacy has two locations in Maryland, one adjacent to the Shady Grove Adventist Hospital and one on Medical Center Drive in Rockville. The Medical Center Drive location was founded in 1980 as an ambulatory care pharmacy. The Shady Grove location opened in 1990 to meet the ever-increasing demand for fertility products. Now they are called Ambulatory Care #1 and Ambulatory Care #2 , respectively.

Both locations have full service pharmacies, but each has its own specialty. Ambulatory Care #1 specializes in veterinary compounding. Ambulatory Care #2's main focus is fertility products. Additionally, Ambulatory Care #2 provides several services including: compounded and flavored pet medications, Jobst® support stockings, Medela breast pumps, home convalescent products, vitamins and herbal supplements.

School of Pharmacy Interests

Ambulatory Care offers additional information for patients on diabetes, fertility and pain management in the form of suggested books, newsgroups, and contact information for associations on their website. The School of Pharmacy also offers continuing education programs for pharmacists in similar areas. The School of Pharmacy can work with Ambulatory Care to develop continuing education programs that will benefit pharmacists in areas such as diabetes and pain management.

Opportunities for Involvement

- Even though the Ambulatory Pharmacy does not offer any internship or externship programs yet, students who are interested in fertility or veterinary medications would be able to receive valuable resources from either pharmacy.

Contact Info:

Care#1;
9715 Medical Center Dr.
Rockville, MD, 20850

Care#2;
15001 Shady Grove Rd. #140
Rockville, MD, 20850

Phone: 301-545-0193
E-mail: info@fertilerus.com

Additional Information:

The owner of Ambulatory Care, Mr. Joseph Nusbaum, is a University of Maryland alumnus.

Author: Minhee Kang



Quality of Life Pharmacy

www.qualityoflifepharmacy.com

Overview

Established in 2006, Quality of Life Pharmacy is an independently owned community pharmacy that emphasizes disease management as its core task. Quality of Life Pharmacy is distinctive in many aspects. It provides both the regular dispensing as well as compounding services. In an effort to improve the well-being of its patients, Quality of Life Pharmacy conducts consultations as well as regular disease management classes. Quality of Life Pharmacy serves approximately 30 regular compounding patients and over 100 general patients.

The compounding services at Quality of Life Pharmacy include pediatric medicine, dermatology, sports medicine, wound care and others. These compounded medications are prepared in appropriate dosage forms, such as ointments, creams, and transdermal gels.

School of Pharmacy Interests

There are several compounding courses taught at the School of Pharmacy. Students who take such courses can reinforce the standard course work with visits to Quality of Life Pharmacy.

Opportunities for Involvement

- Compounding pharmacy practice is becoming increasingly rare. For students who are interested in compounding practice at a community level, Quality of Life Pharmacy is an ideal location to gain experience as an intern.
- Quality of Life Pharmacy is a potential visitation site for students who are interested on small scale, independently run pharmacy practice.

Contact Info:

Quality of Life Pharmacy
1835 Brightseat Rd
Landover, MD 20785

Phone: 301-386-0857
Fax: 301-560-8022
301-386-0859

E-mail: qol_rtp@msn.com

Additional Information:**Hours of operation:**

Monday to Friday, 10:00AM - 6:00PM
Saturday & Sunday, by appointment only.

Author: Solomon Yirdaw



Village Green Apothecary

www.myvillagegreen.com

Overview

Formerly known as The Apothecary in Bethesda, Maryland, Village Green Apothecary (VG) has been serving the DC Metropolitan community for almost 45 years. Unlike most other pharmacies, this community setting focuses its work on providing a healthy and environmentally friendly atmosphere. This pharmacy is dedicated to promoting a balance between traditional and alternative wellness resources, from nutraceuticals to pharmaceuticals. VG promotes healthy living as a lifestyle to help its patients maintain optimal health at every stage of life through diet, nutrition, exercise, and mental vitality.

VG's compounding pharmacy lab offers custom compounding of vitamins, minerals, glandulars and amino acids. The lab takes care to eliminate all fillers, binders, sugars, starch and other possible allergens from these custom formulas. VG is also an innovator in the field of compounded bio-identical natural hormones, like progesterone.

School of Pharmacy Interests

Centering on a holistic approach towards healthcare, VG offers a prime opportunity for student pharmacists to gain experience in combining both traditional and alternative methodologies in pharmacy practice. Many faculty members of the Pharmacy Practice Department also work with alternative medicine and could use VG as a good resource for collaboration.

Opportunities for Involvement

- Village Green Apothecary offers student pharmacists the opportunity to study a holistic approach to pharmacotherapy, promoting lifestyle changes of well-being and disease prevention.
- As each mode of therapy is tailored specifically to each patient, Village Green is an inspiring place to gain compounding and pharmacy practice experience, possibly as an experiential learning elective.

Contact Info:

Village Green Pharmacy
5415 W. Cedar Ln
Bethesda, MD 20814

Phone: 301-530-0800
Fax: 301-493-4671
E-mail: info@myvillagegreen.com

Additional Information:

This is the first pharmacy and nutrition store to be 100% wind powered and also accepts emptied vitamin bottles for recycling. Plus, 3% of its telecommunications spending goes towards promoting a sustainable environment.

Author: Melissa Kim



Whitman-Walker Clinic of Northern Virginia

www.wwc.org

Overview

Whitman-Walker Clinic is a non-profit community-based health center servicing the Northern Virginia area. This clinic provides health care and social support services to thousands in the community and is especially committed to alleviating the suffering of all those infected and affected by HIV/AIDS. Services provided include: comprehensive outpatient services, at-cost HIV/AIDS medications, nutritional assistance, and legal and mental health support. Whitman-Walker facilities are located in downtown Washington D.C. and Northern Virginia.

School of Pharmacy Interests

The School of Pharmacy has an Office of Substance Abuse Studies that conducts research projects in evaluating the outreach efforts to individuals at-risk for substance abuse and HIV. A completed project from the Office of Substance Abuse Studies focused on the needs of end-of-life care patients who were in the last stages of AIDS.

Several faculty members focus on palliative care, which is medical treatment that reduces the severity of disease symptoms. Students from the School of Pharmacy who are interested in the administration of public health programs, infectious disease states or mental health issues, can benefit from a volunteer experience at the Whitman-Walker clinic. The School of Pharmacy also provides an experiential learning elective that focuses on HIV/AIDS.

Opportunities for Involvement

- Volunteer opportunities in the following areas: AIDS Support Services, Administration, Food bank and Medical Services.
 - General orientation starts around the first Monday or Thursday of the month.
 - For both faculty and students
- Internship opportunities: Clinical

Contact Info:

Whitman Walker Clinic of Northern VA
5232 Lee Hwy
Arlington, VA 22207

Phone: 202 - 797 - 3500
Email: wwcinfo@wwc.org

Additional Information:

In 2007, Whitman-Walker clinic has served more than 13,000 clients.

Author: Catherine Lee

III. Federal Agency

The expansion of the University of Maryland, School of Pharmacy (SOP) to the Shady Grove Campus located in Rockville, Maryland provides easy accessibility to many of the major government organizations that play an intricate role in numerous areas related to the profession of pharmacy. The opportunity for students, faculty, and staff to become involved with government organizations such as the Food and Drug Administration (FDA), Veteran Affairs (VA), Public Health Service (PHS), along with numerous intra- and extramural organizations of the National Institutes of Health (NIH), is at their fingertips.

Government funded entities create a broad spectrum of opportunities and settings that are available for faculty and students within the government sector. For example, through the SOP dual degree programs, a student could choose to complete a PharmD/JD and work for the FDA creating new regulations. Another option would be to complete the PharmD/PhD program and conduct research at the NIH.

Government organizations also benefit faculty members by providing opportunities for many of the same reasons listed for students. One major difference is that faculty may look toward the government to provide funding for their own research and studies, be it at the SOP, or other settings that they may be involved with.

As the profession of pharmacy continues to change and expand into new and exciting areas, there is no limit as to how far a pharmacist will be able to go. The government sector provides a wonderful starting point for many standard pharmacy positions, as well as a place to pave the way for new and unique opportunities for pharmacists. With this said, the area of government is well suited to incorporate pharmacists and their knowledge base provided by the School of Pharmacy.

Author: Michael Akers



Agency for Health Care Research and Quality

www.ahrq.gov

Overview

The Agency for Health Care Research and Quality (AHRQ) is one of twelve agencies under the Department of Health and Human Services. AHRQ supports research that improves the quality of health care for Americans. This agency works to create and disseminate knowledge that will enhance the effectiveness of public health services and will provide the public with better access to care.

AHRQ funds grant programs to identify more effective ways to organize and manage health care, reduce medical errors, and to improve patient safety. AHRQ research benefits patients, health care providers and public policy makers. For example, AHRQ has created a National Resource Center for Health Information Technology. This center contains a searchable database of articles and studies related to health information technology (IT) administration. The center also provides technical assistance in the form of IT tools, practices and a knowledge library.

School of Pharmacy Interests

The University of Maryland at Baltimore is one of thirteen entities chosen to be a DEcIDE Network Research Center in AHRQ's "Effective Health Care Program." AHRQ provides funding to the University of Maryland to compare medical treatments and to address gaps in health care knowledge. In addition, the School of Pharmacy and AHRQ share a common mission to fund further research to improve patient outcomes. The DEcIDE Network centers pull data from health plans, insurers, and other partner organizations to assess the benefits and risks of medication and therapies.

Opportunities for Involvement

- AHRQ provides funding for research projects that supports its mission to improve health care for Americans. There are opportunities for the School of Pharmacy faculty to apply for grants to support their research projects.

Contact Info:

Agency for Health Care Policy &
Research
540 Gaither Rd.
Rockville, MD 20850

Phone: 301-427-1364

Additional Information:

Healthcare 411 is an informational broadcast by AHRQ that was created in 2005 to help Americans stay informed on the latest health care findings. These newscasts are also distributed as Podcasts and to other websites.



Food and Drug Administration

www.fda.gov

Overview

The Food and Drug Administration (FDA) is responsible for protecting the health of the public. It is the federal regulatory body within the Department of Health and Human Services. The FDA's mission is to "[assure] the safety, efficacy, and security of human and veterinary drugs, biological products, medical devices, our nation's food supply, cosmetics, and products that emit radiation." This agency weighs the benefits versus the risks to decide what drugs show promise for study, which ones get approved, and which ones qualify for market use. In this manner, the FDA directly affects the pharmacy industry and the medications available to the population. Furthermore, the FDA works to provide public access to scientific-based information as an additional effort to protect the consumer and improve public health.

School of Pharmacy Interests

The work of the FDA aligns with the University of Maryland's Center on Drugs and Public Policy, which specializes in providing credible solutions for government agencies, the pharmaceutical industry, professional organizations, and private businesses on public health and practice issues regarding drug use and regulatory matters.

Opportunities for Involvement

- The FDA has opportunities for both pharmacists and students in the areas of pharmacy, law, government, economics and management. View available Job Opportunities through the link on the FDA's homepage.
- The FDA also offers experiential positions for student pharmacists

Contact Info:

Food and Drug Administration
5600 Fishers Lane
Rockville, MD 20857
Phone: 888-INFO-FDA

Additional Information:

The Commissioner's Corner of the FDA website will give you more insight into the issues the FDA is currently working on.

Author: Melissa Kim



Indian Health Service

www.ihs.gov/

Overview

The Indian Health Service (IHS) is a branch of the Department of Health and Human Services established in 1955 to improve the health of American Indians and Alaskan Natives. It employs over 15,000 healthcare providers for more than 557 federally recognized tribes in 35 states. This service strives to provide accessible healthcare and advocacy, while respecting the rights of each tribe.

Pharmacists in the IHS use a full spectrum of their skills and knowledge gained through their education and experiences in community and clinical settings. Clinical pharmacists determine the optimal medication therapy for a particular patient based on the patient's health record and past medical history. The pharmaceutical services in the hospital setting consists of unit dosing, IV admixtures, pharmacokinetic consulting, physician rounding, drug information and patient discharge medication counseling.

School of Pharmacy Interests

The Indian Health Service collects statistics on the healthcare of Native Americans and Alaskan Natives that may be of interest to the Peter Lamy Center, the UMB focus center that analyzes economic, social, and health issues in the use of medications in the elderly. The data collected by IHS can also serve as a good resource for faculty in the Department of Pharmaceutical Health Services Research, providing substantial information on the Alaskan Native and American Indian populations.

Opportunities for Involvement

- Faculty:
 - Research about the health of Native Americans and Alaskan Natives can be found at:
 - Native Health History Database (NHHD), which contains a database with the medical and health research reports from 1652-1970
 - Native Health Research Database, which contains health information from 1970-present.
- Students
 - JRCOSTEP – gives students professional experience in the IHS
 - Senior Year Externship rotations
 - Residency programs available in 7 states.

Contact Info:

Indian Health Service
The Reyes Building
801 Thompson Avenue, Ste. 400
Rockville, MD 20852-1627

Phone: 301-443-3593
E-mail: info@his.gov

Additional Information:

To find Pharmacy specific information, please go to:
<http://www.pharmacy.ihs.gov/index.cfm?module=home>

Author: Rana Kim



National Cancer Institute

www.cancer.gov

Overview

With the help of the National Cancer Act of 1937, The National Cancer Institute (NCI) was formed with the help of the National Cancer Act of 1937. It has been the primary agency for cancer research and training in the United States for the last 70 years. The NCI supports a wide variety of causes relating to cancer in two ways. One of the ways is by providing education and training in areas related to the fundamental sciences and clinical disciplines. The other way is through the sponsorship of clinical trials.

The NCI has several programs that were created to help expand the development of clinical trials throughout the United States. Some of these programs include: Cancer Centers Program, Specialized Programs of Research Excellence, Clinical Trials Cooperative Group Program, Cancer Trials Support Unit, along with several others.

School of Pharmacy Interests

Many faculty members at the School of Pharmacy either conducting research in cancer or providing pharmaceutical care to cancer patients at their practice sites, have many of the same goals as the NCI as it applies to cancer. Therefore, there should be ample opportunities for students and faculty to collaborate with the NCI. These collaborations could be through drug discovery methods by way of the Computer Aided Drug Design Center or by dealing with pharmacotherapy options through the Department of Pharmacy Practice and Science.

Opportunities for Involvement

- Summer Internship Program in Biomedical research
- Post baccalaureate Intramural Research Training Award allows recent grads to spend a year doing biomedical research
- Summer student research day
- Foundation for Advanced Education in the Sciences Graduate School
- Post-Graduate Year 2 PharmD Residency Program in Oncology

Contact Info:

NCI Public Inquiries Office
616 Executive Blvd.
Room 3036A
Bethesda, MD 20892

Phone: 1-800-422-6237

Additional Information:

View The National Cancer Institute's website to see current and past publications related to all types of cancer.

Author: Michael Akers



National Center for Complementary and Alternative Medicine

www.nccam.nih.gov/

Overview

The National Center for Complementary and Alternative Medicine (NCCAM) was established in 1998 and is one of the 27 institutions and centers that are a part of the National Institutes of Health. It is the leading agency that provides funding for scientific research on complementary and alternative medicines (CAM). Researchers look to discover and explore non-conventional medical practices from funding provided. NCCAM also distributes information and supports the use of CAM to the public as well as to health professionals. This center also focuses on the training of researchers. The research that is conducted and funded can be divided into four areas: manipulation and body based therapies, biologically based practices, mind body medicine, and energy medicine.

School of Pharmacy Interests

Research and funding that the NCCAM provides may appeal to faculty who are conducting research on the uses of complementary and alternative medicines. Faculty who are in a clinical setting may also be interested in innovative non-conventional medical treatments. Students interested in CAM as a career track would find the information on the website enlightening as well. Additionally, the information provided would be useful for students who are currently enrolled in the Complementary and Alternative Medicine elective offered at the School of Pharmacy.

Opportunities for Involvement

- Faculty
 - Research: There are opportunities for funding from the NCCAM as well as many research resources available.
 - Continuing Education Credits for Health care professionals: Many different courses are available including an Overview of CAM, Herbs, Other Dietary Supplements, Health, and Spirituality.
- Students
 - Student Educational Employment Program
 - Summer Internship Opportunities Program

Contact Info:

NCCAM, NIH
9000 Rockville Pike
Bethesda, Maryland 20892 USA

Phone: 1-888-664-6226
Fax: 866-464-3616
E-mail: info@nccam.nih.gov

Additional Information:

Requirements for Funding for Clinical Trials refer to:
<http://nccam.nih.gov/research/policies/index.htm>

List of CAM Treatments refer to:
<http://nccam.nih.gov/health/bytreatment.htm>

Author: Rana Kim



National Heart, Lung, and Blood Institute

www.nhlbi.nih.gov/

Overview

The National Heart, Lung, and Blood Institute (NHLBI) was established in 1948 focusing on the study of the heart. In 1976, it broadened its focus to include diseases of the heart, lungs, and blood, as well as sleeping disorders such as apnea, insomnia, and narcolepsy. The institution supports extramural and intramural research programs that provide insight into the prevention, treatment, causes, and diagnosis of these diseases.

The NHLBI website provides detailed information for both the public and healthcare providers about the diseases associated with the heart, lungs, and blood. The information about each of the diseases are further divided and specified by various races, age groups, and genders.

School of Pharmacy Interests

The research that is conducted at the NHLBI may be of interest to many of the faculty at the School of Pharmacy, especially those who are in the Department of Pharmacy Practice and Science. Many of the faculty members in that department conduct research, which is relevant to the research conducted at NHLBI.

Opportunities for Involvement

- Educational Opportunities
 - Research Training: provides research training awards and career development awards that are related to the heart, lungs, blood vessels, and sleep disorders.
- Research Collaborative Opportunities
 - For a List of Research Areas refer to:
<http://www.nhlbi.nih.gov/resources/resources.htm>

Contact Info:

National Heart, Lung, and
Blood Institute
31 Center Drive MSC 2486
Bethesda, MD 20892

Phone: 301-592-8573
Fax: 240-629-3246
E-mail: nhlbiinfo@nhlbi.nih.gov

Additional Information:

For more information about the various heart, lung, blood, and sleeping disorders refer to:
<http://www.nhlbi.nih.gov/health/index.htm>

For more information about funding and career development opportunities refer to:
<http://www.nhlbi.nih.gov/funding/index.htm>

Author: Rana Kim



National Institute on Aging

www.nia.nih.gov/

Overview

The National Institute on Aging (NIA) is one of the 27 Institutes and Centers of the National Institutes of Health. Dr. Nathan Wetherell Shock founded the institute to find the biological factors responsible for aging and the mechanisms associated with the impaired performance accompanying aging. The primary goal of the NIA is to fund and produce research leading to a complete understanding of the aging process along with the diseases and conditions that become more prevalent with age. The NIA has two locations in Maryland for its intramural research, one in Baltimore and the other in Bethesda.

The major ongoing study at NIA is the Baltimore Longitudinal Study of Aging (BLSA). The study was started by Shock shortly after he had founded the National Institute on Aging. Since 1958, data have been collected through the BLSA in order to understand aging and the medical problems associated with it. Participants, with ages ranging from 20 to 90, are recruited for clinical visits approximately every 2 years for most of their lives. Clinical visits include a routine checkup and many tests to ascertain their health status.

School of Pharmacy Interests

The BLSA study headquarters are located in Harbor Hospital in Baltimore, MD. Their data is used primarily by outside research groups in collaboration with the NIA to study aging. Opportunities for the School of Pharmacy to collaborate in studies using BLSA data have already been pursued by the Peter Lamy Center for Drug Therapy and Aging and most likely will continue into the far future.

Opportunities for Involvement

- Pharmacists supply medications to study participants.
- Pharmacists have the opportunity to assist research project and suggest additional projects.
- Study participation in the BLSA offers an opportunity to participate in ongoing research.

Contact Info:

National Institute on Aging
Building 31, Room 5C27
31 Center Drive, MSC 2292
Bethesda, MD 20892

Phone: 301-496-1752
Fax: 301-496-1752

Additional Information:

Study participation opportunities are available for anyone interested at the website, www.ClinicalTrials.gov.

Author: Meghan McHenry



National Institute of Biomedical Imaging and Bioengineering

www.nibib.nih.gov

Overview

The National Institute of Biomedical Imaging and Bioengineering was created in 2000 as part of the NIH. The mission of the NIBIB, as stated in the institute web page is “...to improve health by leading the development and accelerating the application of biomedical technologies.” Most of the advances made in health-care with respect to diagnosing, preventing and treating diseases have been enhanced by discoveries in biomedical technologies. The Institute defines its role as the driving force to integrate the physical and engineering sciences with the life sciences to advance basic research in medical care.

NIBIB encourages scientists from many disciplines to compete for the extramural research funds. Discovery science and technology, applied science and technology, and interdisciplinary training are the three major divisions of extramural research categories in NIBIB.

School of Pharmacy Interests

The Center for Nanomedicine and Cellular Delivery (CNCD) at the School of Pharmacy focuses in the design, development and translation of nanosystems for therapy and diagnosis. Nanofabrication and characterization, delivery of bioactive agents, and translational research are some of CNCD key research areas. Similarly, NIBIB supports research projects like the use of smart sensors for chemical and physiological signals from the body to release drugs. Therefore, such overlapping interest can be enhanced by cooperation between the two institutions.

Opportunities for Involvement

- Research grants for CNCD can possibly be acquired through NIBIB extramural funding.
- Research grants for CNCD can be acquired through NIBIB extramural funding.
- PharmD students have very diverse professional backgrounds. Students with an engineering and technology background may benefit from an internship at this institute.

Contact Info:

NIBIB
Democracy Plaza II
6707 Democracy Boulevard
Bethesda, MD 20892

Phone: 301-496-8859

Fax: 301-480-4973

E-mail: Info@nibib.nih.gov

Additional Information:

For those who are interested to work in multi-disciplinary research environment, NIBIB is an ideal choice.

Author: Solomon Yirdaw



National Institute of Diabetes and Digestive and Kidney Diseases

www2.niddk.nih.gov/

Overview

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) conducts and supports clinical research on diseases of internal medicine and other subspecialty fields as well as many basic scientific disciplines.

Like other NIH institutes, NIDDK contains both intramural and extramural research centers. This institute's Division of Intramural Research focuses on a broad spectrum of metabolic diseases. The Extramural Research is organized into four areas: Diabetes, Endocrinology and Metabolic diseases; Digestive and Nutrition; Kidney, Urologic and Hematologic Diseases; and Extramural Activities. The NIDDK provides health information about diabetes, digestive and liver diseases, kidney and urologic diseases, weight control, endocrine and metabolic diseases, hematologic diseases and nutrition. Furthermore, it has three different education programs that include diabetes, kidney disease, and weight loss education programs, which are available to the general public through the links on the NIDDK homepage.

School of Pharmacy Interests

NIDDK as well as other NIH institutes supports the training of graduate students, postdoctoral fellows, and physician scientists through institutional and individual grants. NIDDK also funds a variety of projects to provide resources for researchers to nourish scientific research in diabetes and digestive and kidney diseases. Since the School of Pharmacy's Shady Grove Campus is located close to NIH, we would be able to have a closer relationship with this institute.

Opportunities for Involvement

- There is an experiential internship program for graduate students.
- NIDDK provides many postdoctoral opportunities to PhDs.

Contact Info:

Office of Communications and
Public Liaison NIDDK,
NIH Building 31,Rm 9A06
31 Center Drive, MSC 2560,
Bethesda, MD, 20892-2560
Phone: 301-496-3583

Additional Information:

NIDDK supports investigator-initiated, multi-center clinical studies. ClinicalTrials.gov contains many clinical trials sponsored by the National Institutes of Health, other federal agencies, and private industry.

Author: Minhee Kang



National Institute on Drug Abuse

www.nida.nih.gov

Overview

The National Institute on Drug Abuse is a division under the National Institutes of Health (NIH). NIDA focuses research on addressing the problem of drug abuse and addiction. It encourages collaboration among its researchers by forming the NIDA Networking Project (NNP). This network provides researchers and clinicians access to a pool of information to synergize research efforts and to improve efficiency of information dispensed across the country.

NIDA also publishes educational materials to disseminate information regarding abuse and addiction to the public. On the website, there are separate sections that cater focused information selectively to health professionals, parents/young teachers, and students/young adults.

The Division of Pharmacotherapies and Medical Consequences of Drug Abuse (DPMCD) is a program under NIDA that mimics a typical pharmaceutical company. The DPMCD has the ability to support all of the phases for drug development: from synthesizing a new drug, to submitting a New Drug Application, and then conducting a clinical trial.

School of Pharmacy Interests

The School of Pharmacy's Office of Substance Abuse Studies has worked collaboratively with NIDA in the past. For example, "Teen Brains" was a project funded by NIDA to produce an educational video marketed to teen audiences. The video was shown to effectively convey information about brain function and effects of drugs on the mind. "Infoculture" is an upcoming project that expands on the theme of "Teen Brains" to sway teen audiences to commit to a long-term healthy, drug-free lifestyle.

Opportunities for Involvement

- NIDA has many extramural funding opportunities for research projects on drug and substance abuse.

Contact Info:

National Institute on Drug Abuse
6001 Executive Blvd.
Room 5213
Bethesda, MD 20892
Phone: 301-443-1124
Email: information@nida.nih.gov

Additional Information:

Three types of prescription drugs are abused the most often: opioids, CNS depressants, and stimulants.

Author: Catherine Lee



U.S. Public Health Service

www.usphs.gov

Overview

The U.S. Public Health Service (PHS) is the primary division of the Department of Health and Human Services. The Commissioned Corps of the PHS works to improve public health, deliver disease prevention programs, and advance public health science. The Commissioned Corps is one of America's seven uniformed services.

The mission of the U.S. Public Health Service Commissioned Corps is to protect, promote, and advance the health and safety of our nation. Corps officers are involved in disease control and prevention, biomedical research, regulation of food and drugs, mental health and drug abuse, health care delivery, and international health. The PHS Commissioned Corps also responds to public health crisis and national emergencies, such as Hurricane Katrina.

School of Pharmacy Interests

Commissioned corps pharmacy officers working for the PHS are involved with the University of Maryland, School of Pharmacy (SOP) by serving as preceptors for students in the Experiential Learning program. Pharmacy alumni who serve under the PHS also visit the School of Pharmacy as guest speakers for pharmacy courses or student organization meetings.

Opportunities for Involvement

- **COSTEP - Commissioned Corps Officer Student Training and Extern Program—2 programs:**
 - **JRCOSTEP—** Mentoring program for students. Assignments vary in location and range from 31 to 120 days.
 - **SRCOSTEP—** Externship program available to students with at least 8 months of educational commitment remaining in their final year.
 - Offers financial assistance alongside service commitment.

Contact Info:

U.S. Public Health Service -
Commissioned Corps
1101 Wootton Pkwy
Plaza level
Rockville, MD 20852
Phone: 877 - 463 - 6327

Additional Information:

REQUIREMENTS: Must be US citizen, less than 44 years of age. Be medically qualified.

Author: Catherine Lee

IV. Hospitals

Pharmacy has an ever-changing role in the clinical setting. Recently, pharmacists have shifted from being isolated in cubicle-like basement pharmacies with little patient interaction, to practicing as essential members of the healthcare team. As the pharmaceutical industry expands and the array of medications increases, pharmacists' roles have become more important in optimizing drug safety and efficacy. Also, due to the complexity of drug therapies, it is essential for pharmacists to have specialized experiences and a strong foundation in pharmaceuticals. These specialized experiences become especially important when dealing with more serious and possibly life threatening scenarios.

Through the Experiential Learning Program, the University of Maryland, School of Pharmacy already has many ties to Maryland hospitals. Many local hospitals offer rotations and other learning experiences. Pharmacy organizations along with pharmacy schools recognize that it is extremely important for students to obtain hands on training before they enter the workforce.

There are several major subtypes of hospitals. These include: General, specialty, teaching and research hospitals; all of which offer different perspectives in hospital pharmacy. Specializations among hospitals provide students with new and different learning experiences depending on the hospital subtype during pharmacy rotations, residencies, and fellowships. In particular, post-graduate year 2 pharmacy residency programs are specialized based on each type of hospital and are essential for further clinical training. Following residencies and/or fellowships, many job opportunities in specialized clinical pharmacies or even unit dose services are available.

Additionally, hospital data is often used in research projects. Drug adverse responses are collected in hospitals and are used by the FDA and drug companies. Clinical trials are often conducted in hospitals such as the government-funded hospital of the National Institutes of Health, which is used exclusively for research purposes.

The importance of hospital contact and communication is imperative to the development of the field of pharmacy. Pharmacists have an advantage because as the field rapidly changes, they will have the ability to shape the future of pharmacy in many different ways. Also, as pharmacists' roles within the health care team continue to expand, hospitals will most likely see improved patient outcomes in the years ahead.

Author: Meghan McHenry



Children's National Medical Center

www.dcchildrens.com

Overview

Children's National Medical Center is the only pediatric hospital located in Washington D.C. Children's is a relatively small hospital of 283 beds. According to Hamet Toure, a University of Maryland PharmD alumnus, "Children's has a strong sense of teamwork, community and collaboration among departments. We have just initiated new performance improvement initiatives in the main patient pharmacy." A shuttle bus is provided for commuters exiting Brookland/CUA red line metro station.

The main patient and new satellite pharmacy supply medication to all areas of the hospital. Pediatric dosing of medications is very labor intensive and these two pharmacies work hard to support the demand of specialized care for their patients. For example, the satellite pharmacy has a chemotherapy IV room where technicians meticulously prepare chemo drugs for patients. Two staff pharmacists review the orders, materials, preparation and final composition of the chemo drug before processing it for administration.

School of Pharmacy Interests

Several faculty members of the University of Maryland School of Pharmacy have a specialized interest in improving pediatric care and reducing medication errors. Pharmacy students interested in Pediatrics can register for an elective experiential learning rotation at the Children's National Medical Center.

Opportunities for Involvement

- Volunteer services
- Externships
- Pharmacy residencies:
 - PGY1—General Practice
 - Opportunities to work in HIV patient care clinics, pulmonary/GI clinics, and the main patient pharmacy.
 - Leadership & management opportunities in administration.
 - Pharmacy administration
 - Opportunities for budgetary, financial planning, legal, operations, and clinical work.

Contact Info:

Children's National Medical Center
111 Michigan Ave.
Washington, DC 20010
Phone: 202-476-5000 (MAIN)
Phone: 202-476-2062 (VOLUNTEER)

Additional Information:

Children's National Medical Center is consistently ranked among the best pediatric hospitals in the U.S. by US News & World Report. Currently, Children's is ranked 11th in the nation.

Author: Catherine Lee



Holy Cross Hospital

www.holycrosshealth.org

Overview

Holy Cross hospital in Silver Spring, MD, was founded in 1963 by the Congregate of the Sisters of the Holy Cross. It is the second largest hospital in Maryland. Based on 2007 statistics, it has 450 beds, 1200 physicians, 157,509 patients, 138,262 outpatients and 9,169 births per year. Holy Cross Hospital is a member of the Catholic Health Association and is the only teaching hospital in Montgomery County.

Holy Cross has more inpatient gynecologic surgeries, delivers more babies and cares for more critically ill newborns than any other hospital in Maryland or the District of Columbia. According to its website, it is among the largest single-site hospital providers of obstetric services in the United States.

Holy Cross Hospital has a decentralized 24-hour Pharmacy Department, which helps pharmacists to collaborate closely with physicians and work directly on patient care. The Pharmacy Department has positions for pharmacists, pharmacy technicians as well as clinical specialists in oncology, intensive care, general medicine and NICU.

School of Pharmacy Interests

The Holy Cross Hospital does not have any residency programs for PharmD students yet. However, since it is a teaching hospital, it might provide PGY1 or PGY2 programs in the future.

Opportunities for Involvement

- Volunteering at the Pharmacy Department is encouraged.
- Board certified technicians are able to work in this hospital.

Contact Info:

Holy Cross Hospital
1500 Forest Glen Road
Silver Spring, MD 20910

Phone; 301-754-7000

Additional Information:

Holy Cross provides interpretation services and this would be beneficial for bilingual professionals. Also, sign language interpretation is provided.

Author: Minhee Kang



National Institutes of Health – Clinical Research Center

www.cc.nih.gov/

Overview

The NIH Mark O. Hatfield Clinical Research Center was opened in 2005. The center is connected to the previous clinical center, the Warren Grant Magnuson Clinical Center. It contains 242 in patient beds, 90-day hospital stations and 15 clinics. The NIH hospital is the largest clinical research facility in the nation that only admits and treats patients that are referred by a physician, have a specific illness or is at a stage of an illness that will benefit from a treatment offered at the center.

The pharmacy department provides pharmaceutical care for both inpatients and outpatients. The department also conducts in research programs that include new drugs as well as new uses of commercially available drugs. The Pharmaceutical Development Section of the department manages new investigational drug formulations, assists in setting up double blind studies as well as assisting in the filing of Investigational New Drug applications.

School of Pharmacy Interests

The NIH Clinical Center has many opportunities for the School of Pharmacy's research departments in a wide variety of fields that involve new discoveries in the field of pharmacy. The NIH Clinical Center, Pharmacy Department trains fellows, residents, and students from professional schools. The Experiential Learning department in the School of Pharmacy may benefit from the excellent student training opportunities in place.

Opportunities for Involvement

- Faculty
 - Clinical research about new and innovative medications for the treatment of a particular disease or for a particular disease state
 - Conducts an annual continuing education program, the Pharmacotherapy Frontiers Symposium, about developments in drug therapy and pharmacy issues.
- Students
 - PGY2 Oncology Pharmacy Practice Residency available after the PGY1.
 - Summer Internships

Contact Info:

Mark O. Hatfield Clinical Research Center
10 Center Dr.
Bethesda, MD 20892

Phone: 301-496-4000

For listings refer to:

<http://teledirectory.nih.gov/>

Additional Information:

After completion of a residency program there is available a Pharmacokinetics/Pharmacogenetics Fellowship and a Primary Care Pharmacy Fellowship

Author: Rana Kim



National Naval Medical Center

www.bethesda.med.navy.mil

Overview

The National Naval Medical Center (NNMC) is located in Bethesda, Maryland directly across from the National Institutes of Health. As a military hospital, its main patient population is military personnel and their respective family members. The NNMC has 257 beds and employs over 4,500 staff and professional personnel. As of 2006, it has served over 455,000 patients.

The NNMC involves pharmacists in many aspects of their health care ranging from staff pharmacists to clinical and oncology pharmacists. The clinical and oncology pharmacists participate in rounds with a team of health care professionals in order to ensure safe drug utilization in their patients. The pharmacists who practice at the NNMC are well respected for their specialized knowledge in drug action and pharmacotherapy. Advice from the clinical pharmacists is necessary to provide the best patient outcomes possible.

School of Pharmacy Interests

As the NNMC is a university affiliated teaching hospital, there are many opportunities for involvement for pharmacists as well as student pharmacists in a welcoming environment, which involves both teaching as well as being taught. This kind of environment allows much of the clinical knowledge gained through the pharmacy program to be utilized in a beneficial and rewarding way for patients and pharmacists alike. The NNMC is already involved with the SOP as a rotation site for student pharmacists and as a practice site for faculty members; however, there could be other connections made for those who wish to pursue them.

Opportunities for Involvement

- Volunteer through the Red Cross at the National Navy Medical Center
- Post-Graduate Year 1 PharmD Residencies for both navy and civilian personnel
- Rotation site through the University of Maryland School of Pharmacy

Contact Info:

National Naval Medical Center
8901 Wisconsin Ave
Bethesda, MD 20889

Pharmacy Department:
301-295-2124

Additional Information:

The main pharmacy is located in Building 9 on the second floor.

There is also a drive-thru satellite pharmacy available for pick-ups only.

Author: Michael Akers



Potomac Ridge Behavioral Health

www.potomacridge.com

Overview

Potomac Ridge Behavioral Health is a provider of mental health services in the Washington D.C area. Potomac Ridge is part of the Adventist HealthCare system, which includes hospitals, nursing centers, home health agencies and other facilities. Potomac Ridge also provides treatment for substance abuse for young adults and adults, a group home for adolescents, partial hospitalization, and special education programs.

There is a clinical drug trial program at Potomac Ridge, which assists those patients who do not react well with current medications. The cost for hospital stay, staff and medication are waived for the enrolled patient. The treatment team for this program consists of physicians, nurses, researchers and social workers. Pharmacists serve a large role in managing the distribution of medication in the clinical trials. A pharmacy researcher may have to compound certain strengths of the trial medicine to appropriate dosages. Also, the pharmacist will be in charge of formulating placebos for the control group of the clinical trial program.

School of Pharmacy Interests

“Perspectives in Mental Health” is a spring elective offered to 3rd and 4th year pharmacy students. This elective educates students about the current mental health system and the major classes of psychiatric symptoms and disorders. Some of the faculty at the School of Pharmacy serve administrative positions with organizations, such as the Mental Hygiene Administration. Others focus their research on dual diagnoses: patients with comorbid psychiatric and substance related diagnosis.

Opportunities for Involvement

- Career opportunities are available for pharmacists and pharmacy technicians.

Contact Info:

Potomac Ridge Behavioral Health
14901 Broschart Rd.
Rockville, MD 20850

Phone: 301-251-4500

Additional Information:

Operation Runaway is a free program enacted to prevent and reduce runaway behavior. Some services include: 24 hour hotline, community support groups, outreach education and seminars, and counseling for parents and runaways.

Author: Catherine Lee



Providence Hospital

www.Provhosp.org

Overview

Providence Hospital was founded by the Daughters of Charity of St. Vincent DePaul and was chartered by President Abraham Lincoln in 1861. Providence hospital provides care for its patients with a working motto that stresses – “healthcare that works, healthcare that is safe and healthcare that leaves no one behind.” The hospital has additional facilities including Carroll Manor Nursing and Rehabilitation Center, the Perry Family Health Center, Seton House, and others. Providence hospital provides services like general medical & surgical care, cardiac intensive care, obstetrics, neurology and orthopedics. End-of-life service, oncology and psychiatric care are the major specialties of Providence Hospital.

The Carroll Manor Nursing and Rehabilitation Center is a 250-bed nursing home. The Seton House is an outpatient substance abuse and psychiatric treatment center. The substance abuse and psychiatric center are very helpful in combating drug addiction, which is one of the main problems of the surrounding community.

Providence hospital is located in one of the least privileged parts of the city. The charity work of the hospital and its members is a great support to the neighboring community. Health fairs, health screenings and Meals-on-Wheels are some of the most popular community outreach programs of the hospital.

School of Pharmacy Interests

The Office of Substance Abuse Studies (OASS) of the School of Pharmacy has the experience and tradition of working with various institutions to disseminate antidrug programs, especially to young people. A partnership between the OASS and Providence hospital would be mutually beneficial.

Opportunities for Involvement

- PharmD student experiential rotation.
- Career opportunities are also available for pharmacists and student pharmacists

Contact Info:

Providence Hospital
1150 Varnum St. NE
Washington, DC 20017

Phone: 202-269-7000
Fax: 202-269-7160
E-mail: info@provhosp.org

Additional Information:

Serving the underprivileged with a generous spirit is one of the founding values of Providence Hospital.

Author: Solomon Yirdaw



Shady Grove Adventist Hospital

www.adventisthealthcare.com/SGAH/

Overview

The Shady Grove Adventist Hospital is a general medical and surgical hospital and is part of the religiously affiliated Adventist HealthCare system. Adventist HealthCare was founded in 1903 to serve the Washington D.C. area. The nonprofit network is headquartered in Rockville, MD. Shady Grove Adventist Hospital was established in 1979 and now operates with 272 beds. Specialties include acute rehabilitation services, cancer care, cardiac and vascular care, emergency services, maternity care, pediatrics and surgical services.

The Shady Grove Emergency Center is a branch of the Shady Grove Adventist Hospital and was opened in 2006 in Germantown, MD. The Germantown center does not have inpatient beds. The Emergency Center was built in response to the growing emergency facility demand in Montgomery County. Pharmacists process medication orders and prescriptions from the Rockville hospital and send them to the Emergency Center to be dispensed.

School of Pharmacy Interests

Shady Grove Adventist participates in the Experiential Learning Program through the School of Pharmacy. Students are able to experience unit dose dispensing, IV packaging, rounds and grand rounds during rotational experiences. The Hospital also offers clinical PGY1 residencies.

Opportunities for Involvement

- Many opportunities and specializations in clinical pharmacy and unit dose services are available within Shady Grove Adventist Hospital.
- Technician and pharmacy student intern positions are available.
- The hospital participates in general PGY1 residencies as well as experiential rotations.

Contact Info:

Shady Grove Adventist Hospital
9901 Medical Center Drive
Rockville, MD

Phone: 301-279-6000

Additional Information:

Prior hospital experience is helpful in obtaining a position as a student pharmacist intern or technician.

Author: Meghan McHenry



Suburban Hospital

www.suburbanhospital.org

Overview

Suburban Hospital is a not-for-profit, community-owned hospital that has served Montgomery County for over 65 years. Like many other hospitals, Suburban offers several different services, but distinguishes itself from the others by serving as Montgomery County's designated Trauma Center and Primary Stroke Center. In alliance with Johns Hopkins Medicine and the National Institutes of Health (NIH), Suburban Hospital translates front running research to the bedside.

Across the street from the NIH campus, the NIH Heart Center and Stroke Center at Suburban provide patients with state-of-the-art technology and round-the-clock access to the most advanced diagnostics and treatments. Suburban's Emergency/Shock Trauma Center provides an ideal setting for this alliance to evaluate the research breakthroughs that come out of the laboratories, while giving its patients a better chance at a full recovery.

School of Pharmacy Interests

Several faculty members of the University of Maryland, School of Pharmacy focus their work around cardiology and clinical care. In joint ventures with NIH and Johns Hopkins Medicine, Suburban Hospital's Shock Trauma Center provides an excellent opportunity for collaboration with the School of Pharmacy to carry out research in the areas of stroke and heart attack.

Opportunities for Involvement

- Suburban Hospital is a valuable resource for studying translational research.
- Offers well developed work, internship, and residency programs that encourage independent study, self-initiative, and the drive to excel in therapy management and communication with medical staff and patients.

Contact Info:

Suburban Hospital
8600 Old Georgetown Road
Bethesda, MD 20814

Phone: 301-896-3100
E-mail: info@suburbanhospital.org

Additional Information:

On Suburban Hospital's website, click on the link to its Careers section to find more detailed information on their residency program with descriptions of their requirements and electives.

Author: Melissa Kim



Walter Reed Army Medical Center

www.wramc.amedd.army.mil/Pages/default.aspx

Overview

Walter Reed Army Medical Center (WRAMC) is a 430 bed medical center located in Washington, DC. WRAMC acts as a major resource for research studies while providing comprehensive healthcare to all members of the US military and their families. WRAMC focuses on applying the discoveries from research to the bedside in efforts to improve global public health.

The Department of Pharmacy at WRAMC plays a vital role in translating bench work to patient care in the daily operations of this hospital. Inpatient Pharmacy, divided into Acute Care and Critical Care, tends to an average of 190 patients per day, delivering over 65,000 unit dose medications and 33,000 IVs per month. The pharmacists are certified in specialties such as: Pharmacokinetic Service, Ambulatory clinics, Nephrology and Transplant Services, and the “Bridging the Gap” Initiative. The “Bridging the Gap” Initiative promotes partnership with physicians and staff towards more collaborative care. The Outpatient Pharmacy provides ambulatory pharmaceutical services to eligible patients within the region, dispensing an average of 1,600 prescriptions per day. The Outpatient Pharmacy also works towards advancing the role of the pharmacist by certifying them to participate in bedside discharge counseling.

School of Pharmacy Interests

With such a large number of patients and the amount of research data collected from its services, WRAMC is a valuable resource for epidemiological studies performed by faculty at the Department of Pharmaceutical Health Services Research. Also, the faculty at the Department of Pharmacy Practice and Science could collaborate with WRAMC by studying new pharmacy practice methods, such as the “Bridging the Gap” Initiative and the Maryland P3 Program, to improve the quality of health care.

Opportunities for Involvement

- As a leader in conducting biomedical research, WRAMC offers research opportunities for civilians and military personnel at the Walter Reed Army Institute of Research (WRAIR) as well as through its Department of Clinical Investigation (DCI).
- With the large demand for pharmacy staff at WRAMC, there are plenty of employment opportunities for those interested in serving the military population.

Contact Info:

Walter Reed Army Medical Center
6900 Georgia Ave. NW
Washington D.C. 20307
Phone: 202-782-3501

Additional Information:

To find out more information on becoming involved with WRAIR as a researcher or study participant, visit: <http://wrair-www.army.mil/>

Author: Melissa Kim



Washington Hospital Center

www.whcenter.org/

Overview

The Washington Hospital Center is the largest private hospital in Washington D.C. The hospital has 926 beds and often operates near full capacity. It is a not-for-profit organization and is a member of the MedStar Health system. The Washington Hospital Center's MedSTAR Transport air ambulance service is recognized by the American College of Surgeons as one of the nation's best Level I shock and trauma units. The air service extends to patients in Maryland, Virginia, West Virginia, Delaware and Pennsylvania.

The Washington Hospital Center has an extensive cardiovascular program. The cardiac catheterization laboratory is extremely experienced and active. One of the first heart transplant surgeries was performed at the Washington Hospital Center on May 22, 1987. Kidney, pancreas and heart transplants are the most common operations performed. The 2007 U.S. News and World Report ranked Washington Hospital Center 17th in heart specialties, 26th in geriatrics and 38th in kidney disease. Additionally, its transplantation services rank within the top five percent in the United States for positive patient outcomes.

In 1996, the Washington Hospital Center was the first to adopt an electronic database called Azyxxi. Azyxxi allows all members of the health community to access medical records on one database. Doctors Mark Smith and Craig Feied developed the electronic interface to speed up the transfer of information and test results to allow for better patient care. Azyxxi is now used by all of MedStar Health Systems.

School of Pharmacy Interests

The School of Pharmacy could benefit immensely by adding the Washington Hospital Center to the Experiential Learning Program. Students could learn a lot from the Azyxxi system and their cardiovascular specialties.

Opportunities for Involvement

- The Washington Hospital Center runs a Career Exposure Program as a volunteering option to gain experience in the desired field. Through this program, students may shadow a healthcare professional or work in their department of interest. The volunteer phone number is 202-877-2105.
- Career opportunities are available for technicians and pharmacists.

Contact Info:

Washington Hospital Center
110 Irving Street, NW
Washington, DC 20010

Phone: 202-877-7000

Additional Information:

The hospital does not currently have any accredited residency programs.

Author: Meghan McHenry

V. National Organizations

Pharmacy practice is changing its role in the provision of health care. With each new development in pharmaceutical care and practice, new issues and opportunities are continuously arising. National pharmacy organizations serve as the voice of pharmaceutical issues and policy, while operating as non-profit entities. Most national pharmacy organizations serve the public's health care interests by utilizing techniques, such as advocacy, regulation, accreditation, and education. Pharmacy practice relies on national organizations to advocate new ideas and to present current concerns that affect daily practice to the health care society.

Pharmacy has become more specialized in focus over the years as well. For example, a pharmacist may specialize in community practice, institutional practice, industry, geriatrics, managed care, long-term care, pediatrics or pharmacokinetics. Each of these specialized fields has a national organization to support its focus. At the University of Maryland, School of Pharmacy (SOP), faculty and students represent a wide range of national pharmacy organizations at the local, state, and national level. For example, a professor who specializes in regulatory affairs and current issues in pharmaceutical care may be a member of the American Pharmacists Association (APhA), which helps advocate for pharmacy issues to legislators. A student who dreams of becoming a clinical pharmacist at a pediatric hospital will benefit from joining the American Society of Health-Systems Pharmacists (ASHP), which will match accredited clinical residencies with its members. By joining a national pharmacy organization, students can enrich their SOP experience. They can benefit from working with members of a specialized pharmaceutical field, networking with national members, and garnering experience at health fairs and outreach programs.

Most of the national pharmacy organizations are located within the Washington, DC metropolitan area. With the opening of the new Shady Grove campus for University of Maryland's School of Pharmacy, the close proximity of these national organizations to the school will serve to benefit students and faculty. A wealth of opportunities is available for interested parties who join these non-profit organizations as student pharmacists and as health care professionals.

Author: Catherine Lee



American Association of Colleges of Pharmacy

www.aacp.org

Overview

The American Association of Colleges of Pharmacy (AACP) is a national organization concerned with improving the quality of pharmacy education. The organization is comprised of pharmacy schools, faculty and students. The AACP maintains its primary goal by offering assistance in the development of research programs, professional degree curriculum, experiential learning and residencies.

Another important role of AACP is being a major advocate for academic pharmacy programs in the health community and in political matters. For example, the AACP is widely known for instituting the Pharmacy College Application Service (PharmCAS). The PharmCAS system is a standardized application service for participating pharmacy schools.

School of Pharmacy Interests

The School of Pharmacy's Center on Drugs and Public Policy would find the work of the AACP useful in supporting the pharmacy practice and regulatory policies of their interest. Additionally, faculty members at the School of Pharmacy are involved in standardizing an effective Experiential Learning Program through AACP.

Opportunities for Involvement

- Students, faculty and pharmacists are able to join AACP.
- Students, faculty and pharmacists can lobby for important issues through AACP in any area.
- Benefits of membership include discussion forums, mentoring, networking and experience in presenting pharmacy issues to state and federal agencies.

Contact Info:

American Association of Colleges
of Pharmacy
1426 Prince Street
Alexandria, VA 22314
Phone: 703.739.2330
Fax: 703-836-8982

Additional Information:

Membership is \$15 per year and includes quarterly issues of the American Journal of Pharmaceutical Education, monthly issues of AACP News, a roster of faculty and professional staff, yearly profile of pharmacy faculty and students, and discounts to AACP meetings.

Author: Meghan McHenry



American Pharmacists Association

www.pharmacist.com

Overview

The American Pharmacists Association (APhA), founded in 1852, was the first established, national professional society of pharmacists. APhA is the largest pharmacy organization, “whose members are recognized in society as essential in all patient care settings for optimal medication use that improves health, wellness, and quality of life.” With membership of over 60,000 pharmacy professionals, APhA utilizes its influence to educate policy makers and the public to advance the profession of pharmacy.

APhA has been a major player in raising awareness of the pharmacist’s role in optimizing medication therapy. Members of APhA join one of three academies: Academy of Pharmacy Practice and Management, Academy of Pharmaceutical Research and Science, or the Academy of Student Pharmacists. APhA provides several resources to continually develop the professional careers of its members, and offers networking opportunities to share information across the different areas of pharmacy.

School of Pharmacy Interests

Through University of Maryland’s own chapter of APhA’s Academy of Student Pharmacists, students at the School of Pharmacy have the opportunity to become members and learn about the pharmacy issues that will be affecting their future careers. Faculty at University of Maryland also have vested interests in advocating for the advancement of the pharmacy profession. They have worked to push major pharmacy issues through legislation, such as the Immunization Bill allowing pharmacists to administer vaccines for influenza, herpes zoster, and staph infections.

Opportunities for Involvement

- Several opportunities for employment at APhA are available, especially in the areas of public policy and advocacy, both for pharmacists and student interns.
- As members, students can become more involved in the advocacy process by running for leadership positions within APhA-Academy of Student Pharmacists.
- APhA also operates the APhA Employment Exchange at its Annual Meeting & Exposition, offering employers and pharmacy professionals a valuable resource for employment.

Contact Info:

American Pharmacists Association
1100 15th Street NW, Suite 400
Washington, DC 20005-1707

Phone: 202-628-4410
Fax: 202-783-2351
E-mail: feedback@pharmacist.com

Additional Information:

Check out the Membership link on the website for more information on how you can become a member of APhA and for updates on relevant pharmacy issues.

Author: Melissa Kim



American Society for Consultant Pharmacists

www.ascp.com

Overview

The American Society for Consultant Pharmacists (ASCP) is concerned with promoting the areas of consultant and senior care pharmacy. ASCP was founded in 1969 and since then has been involved in consultant pharmacy practice in nursing homes, assisted living facilities and other long-term care facilities. The organization offers specific programs and guides to its members to improve patient care. ASCP performs policy and clinical research to better serve the growing senior population. Additionally, the organization publishes a peer-reviewed journal, *The Consultant Pharmacist*, every month.

The organization acts as an advocator for consultant and senior care interests by providing professional representation to speak to regulatory committees on Capitol Hill and in individual state legislatures. For example, ASCP has spoken out about problems with the implementation of Medicare Part D in long term care facilities.

School of Pharmacy Interests

The Maryland chapter of ASCP partners with the School of Pharmacy's student chapter to coordinate Legislative Day every year. During Legislative Day, students and faculty are given the opportunity to lobby for important issues affecting the school and the field of pharmacy. ASCP is currently researching the monetary and health impact of consultant pharmacists. The School of Pharmacy's Peter Lamy Center for Drug Therapy and Aging would be an ideal partner in ASCP research initiatives.

Opportunities for Involvement

- Membership to ASCP is suggested if you have an interest in consulting or senior care. Student membership is free.
- Membership includes the biweekly newspaper, ASCP Advocacy Center.
- Networking opportunities, advocacy opportunities, and specialized pharmacy handbooks and reference guides are all benefits of being an ASCP member.
- ASCP Foundation offers many opportunities for students and pharmacists to be involved in researching medication therapy and guideline improvements.

Contact Info:

American Society for Consultant
Pharmacists
1321 Duke Street
Alexandria, VA 22314

Phone: 703-739-1300
E-mail: info@ascp.com

Additional Information:

Applications are available on the ASCP web page.

Author: Meghan McHenry



American Society for Clinical Pharmacology and Therapeutics

www.ascpt.org

Overview

The main goal of the American Society for Clinical Pharmacology and Therapeutics (ASCPT) is to "...promote and advance the science of human pharmacology and therapeutics." The society looks to utilize the knowledge of its members in the field of pharmacology and therapeutics to develop a better understanding of existing and new drug therapies. Founded in 1900, the ASCPT has over 1,900 members, of which, approximately two percent consist of pharmacists.

Each year there is a meeting in March for members of the society. The meetings include speakers as well as scientific presentations. The society offers full memberships to those who have earned a doctoral degree in a related field including pharmacy. The ASCPT also welcomes students to join as well.

School of Pharmacy Interests

As the pharmacy curriculum includes both pharmacology as well as therapeutics, the ASCPT would be a wonderful staging ground for collaboration between the School of Pharmacy and other institutions at the University of Maryland. Also, increasing the representation of pharmacists would bring a slightly different perspective to the organization.

The School of Pharmacy has a Clinical Pharmacology Unit (CPU) within the Department of Pharmacy Practice and Science that shares the same focus as the ASCPT. The CPU designs and conducts clinical trials ranging from pharmacokinetics to drug-drug interactions. It also partakes in consultations regarding investigational new drug (IND) and new drug applications (NDA).

Opportunities for Involvement

- Mentorship program in which a student/trainee will be matched with a leader in the field of clinical pharmacology for one year
- ASCPT offers opportunities for healthcare professionals to review for the Journal of Clinical Pharmacology and Therapeutics

Contact Info:

ASCPT
528 North Washington Street
Alexandria, VA 22314

Sharon J. Swan
Executive Director
Phone: 703-836-6981
Email: sharon@ascpt.org

Additional Information:

ASCPT provides a complementary subscription to the Journal of Clinical Pharmacology and Therapeutics upon payment of membership dues.

Author: Michael Akers



American Society of Health-System Pharmacists

www.ashp.org

Overview

Since the establishment of the American Society of Health-System Pharmacists (ASHP) in 1942, it has been the mission of the ASHP “...to advance and support the professional practice of pharmacists in hospitals and health systems and serve as their collective voice on issues related to medication use and public health.” The ASHP has over 30,000 professional members nationwide who practice pharmacy in many different settings in the health care field.

The ASHP was originally created for hospital pharmacists, but has now expanded to include all health systems. This incorporates long-term care pharmacists, health maintenance organizations, home care, and many others. The ASHP is also the main accreditation body for pharmacy residency programs in the United States.

School of Pharmacy Interests

As the School of Pharmacy trains future pharmacists for all of the areas that the ASHP organization represents, there are many centers at the SOP that have direct relationships with these areas of practice as well. One example is the Peter Lamy Center for Drug Therapy and Aging, which looks at improving drug therapies for aging adults. This center correlates directly with the long-term care pharmacists that the ASHP includes under their umbrella of health-systems.

Opportunities for Involvement

- Visit national headquarters in Bethesda as students are welcome anytime
- Submit posters for presentation at meetings
- Apply for the ASHP summer internship program and gain valuable experience

Contact Info:

American Society of Health Systems
Pharmacists
7272 Wisconsin Ave
Bethesda, MD 20814
Phone: 301-657-3000
E-mail: students@ashp.org

Additional Information:

The ASHP website has ample resources to find out more information regarding topics such as membership and meeting dates and times.

ASHP also provides great information on specific residency program information.

Author: Michael Akers



International Society for Pharmacoepidemiology

www.pharmacoepi.org

Overview

International Society for Pharmacoepidemiology (ISPE) is a non-profit international organization dedicated to advancing the health of the public via pharmacoepidemiology. Pharmacoepidemiology may be defined as the study of the utilization and effects of drugs in large numbers of people. ISPE provides forums for the open exchange of information with interests in: drug delivery, drug cost, drug use, and drug effects. ISPE sponsors conferences and seminars, a quarterly newsletter, and an official journal— “Pharmacoepidemiology and Drug Safety.”

A recent addition to ISPE is Special Interest Groups (SIG), which have grown to include drug utilization, health services research, medications in pregnancy, molecular epidemiology and pharmacogenomics.

School of Pharmacy Interests

At the University of Maryland, School of Pharmacy (SOP), several of the faculty are members of ISPE. The SOP’s Center on Drugs and Public Policy (CDPP) and ISPE share similar interests in pharmacy. The CDPP provides an unbiased forum for anyone to discuss the impact of policies and drug use on our society. The CDPP conducts research work and addresses international policy issues, which are relevant to the mission of the ISPE.

Opportunities for Involvement

- ISPE sponsors a pharmacoepidemiology fellowship through the US Food and Drug Administration’s Center for Biologics Evaluation and Research (CBER)
 - The fellowship lasts for 18-24 months.
 - The primary responsibility of the fellow is to work with large claims-based data sets from the Centers for Medicare & Medicaid Services (CMS).

Contact Info:

ISPE
5272 River Rd.
Suite 630
Bethesda, MD 20816
Phone: 301 - 718 - 6500
Email: ISPE@painmgmt.com

Additional Information:

Two intensive training workshops are available, taught by ISPE members. “Introduction to Pharmacoepidemiology & Drug Safety” and “Introduction to Therapeutic Risk Management.”

Author: Catherine Lee



Long Term Care Pharmacy Alliance

www.ltcpa.org

Overview

The Long Term Care Pharmacy Alliance (LTCPA) is comprised of five long-term pharmacy corporations. These pharmacies include: Kindred Pharmacy Services, NeighborCare, NCS Healthcare, Omnicare, and PharMerica. LTCPA is a national advocacy group that specializes in voicing interests concerning specialized nursing facilities, long term care costs, and Medicare benefits.

Long-term care pharmacies differ from retail pharmacies in that they provide more specialized services, such as unit-dose packaging. Pharmacists directly counsel patients at long term care facilities since many patients are unable to travel to local pharmacies. Pharmacists work with a team of physicians and nurses to improve patient health care, health outcomes, and to reduce medication-related problems.

School of Pharmacy Interests

Several faculty members of the School of Pharmacy (SOP) specialize in geriatric pharmacotherapy and long-term geriatric care. There are several electives that students can enroll in to learn about geriatric care. Externship rotations are also available to garner experience in the field of geriatrics. In addition, the SOP is the home of the Peter Lamy Center for Drug Therapy and Aging. The Peter Lamy Center and LTCPA share common goals in improving medication therapy and counseling for the aging population.

Opportunities for Involvement

- Opportunities for the Peter Lamy Center for Drug Therapy and Aging to work collaboratively with the LTCPA on research projects for Medicare and long-term care pharmacies.
- Membership is only available to long-term care pharmacies.

Contact Info:

Long Term Care Pharmacy Alliance
1776 Massachusetts Ave.
Suite 410
Washington, DC 20036
Phone: 202-327-5478

Additional Information:

Long-term care pharmacies operate 24/7, 365 days a year to meet the needs of their patients.

Author: Catherine Lee



National Association of Chain Drug Stores

www.nacds.org

Overview

The National Association of Chain Drug Stores (NACDS) was founded in 1933. Its membership consists of retail chain pharmacy companies. Chain community pharmacies comprise the largest component of pharmacy practice in the United States.

The chain community pharmacy industry includes traditional chain drug stores, supermarket pharmacies, and mass merchant pharmacies. Chain operated community pharmacies process over 70% of the outpatient prescriptions dispensed annually in the United States. NACDS holds several annual meetings to bring together industry leaders and decision-makers from the retail drug industry.

NACDS offers webinars, which are online training sites for pharmacists and pharmacy students. Currently there are two webinars available, one is the Pharmacy Advocacy Series and the other one is the Pharmacy-Based Immunization Series. They are part of NACDS's continuing education efforts for pharmacists. Also, the NACDS Foundation, a branch of NACDS, is accredited by the Accreditation Council for Pharmacy Education.

School of Pharmacy Interests

NACDS offers a broad range of member services through its website. It also distributes resources and information to pharmacy students about pharmacy related issues and education programs. NACDS sponsors year round student related events and internship programs for student pharmacists. However, NACDS is not an individual membership organization, so students are not eligible to join it.

Opportunities for Involvement

- The NACDS Foundation's Howard Sternheim Internship program offers an 8 to 12 week summer internship.
- NACDS also provides elective experiential rotation programs in association management, pharmacy practice, and issues impacting the chain drug industry.

Contact Info:

NACDS
413 North Lee Street
PO Box 1417-D49
Alexandria, VA, 22313-1480

Phone: 703-549-3001
Fax: 703-836-4869

Additional Information:

NACDS provides two scholarship programs: Pharmacy Partnership and Pharmacy Student Scholarship.

Author: Minhee Kang



National Community Pharmacists Association

<http://ncpanet.org/>

Overview

Originally known as the National Association of Retail Druggists when it was founded in 1898, the members of the National Community Pharmacists Association consist of independent pharmacies. This association advocates for the rights and interests of independent pharmacies. NCPA also supports and defends the interests of pharmacy managers, owners and employees of over 23,000 independent pharmacies in the nation that are a part of this association.

School of Pharmacy Interests

The School of Pharmacy's student chapter of NCPA informs students of the advantages of owning or being a part of an independent pharmacy and supports newly graduated professionals that are pursuing a career in the independent pharmacy setting. NCPA discusses and informs pharmacies of current issues that are relevant to independent pharmacies. Therefore, the Department of Pharmacy Practice and Science may use these issues to research enhanced methods for pharmacy practice to be integrated into the School of Pharmacy curriculum.

Opportunities for Involvement

- Membership available in the Student Chapter at the School of Pharmacy
- Entrepreneurship
- Internship Programs
- Scholarships

Contact Info:

National Community Pharmacists
Association
100 Daingerfield Rd
Alexandria, VA 22314

Phone: 703-683-8200
Fax: 703-683-3619
E-mail: info@ncpanet.org

Additional Information:

To join the organization, refer to:
<http://www.ncpanet.org/join/index.php>

Author: Rana Kim



Parenteral Drug Association

www.pda.org

Overview

The Parenteral Drug Association (PDA) was founded in 1946 by a group of pharmaceutical manufacturers. The founders intended to use PDA as an information sound board to the pharmaceutical industry. Currently, with over 10,000 members world-wide, PDA is an effective information dissemination organization. As a non-profit association of scientists, PDA's members are involved in the development, manufacturing, quality control, and regulation of pharmaceuticals and related products. PDA's mission is, "to develop scientifically sound, practical technical information and resources to advance science and regulation for the pharmaceutical and biopharmaceutical industry through the expertise of our global membership."

PDA claims to benefit patients, regulatory agencies and industry equally by advocating good science and creating open, transparent communication. PDA publishes the Journal of Pharmaceutical Science and Technology and the PDA Letter. These publications mostly focus on current industry and regulatory news. PDA is also known for providing training courses at its Training and Research Institute as well as online courses.

School of Pharmacy Interests

PDA's headquarters as well as its Training and Research Institute are located in Bethesda, MD. This geographic proximity could be beneficial to the School of Pharmacy. The University of Maryland Biotechnology Institute (UMBI) and PDA have launched a joint Good Manufacturing Practice training program at the Shady Grove campus. Some of the courses they offer might be good supplements to PharmD electives.

Opportunities for Involvement

- By enrolling as a student member to PDA, PharmD students may apply for grant funding and career growth resources.

Contact Info:

PDA Global Headquarters
Bethesda Towers
4350 East West Highway
Suite 200
Bethesda, MD 20814

Phone: 301-656-5900
Fax: 301-986-1093

Additional Information

The press release of the UMBI and PDA joint program on Good Manufacturing Practices can be found at:
www.umbi.umd.edu/news/2008/images/umbi-pda-press-release-jan08.pdf

Author: Solomon Yirdaw



Pharmaceutical Research and Manufacturers of America

www.phrma.org

Overview

The Pharmaceutical Research and Manufactures of America (PhRMA) represents the country's leading pharmaceutical research and biotechnology companies at the national level. PhRMA is an advocacy agency for the industry that seeks to push public policy towards strong intellectual property rights, transparent and efficient regulations, and broad patient access to medicine. PhRMA is the major lobbying agency for over 68 pharmaceutical companies. Some of its members include drug companies such as: AstraZeneca, Bayer, Bristol-Myers, Eli Lilly, GlaxoSmithKline, Johnson & Johnson, and Merck.

School of Pharmacy Interests

Courses that deal with legislative issues and pharmacy law at the School of Pharmacy can enhance their curriculum by organizing educational opportunities with PhRMA.

Opportunities for Involvement

- Student advocacy groups can model PhRMA's lobbying techniques to learn how to approach legislators and improve their own advocacy techniques.

Contact Info:

PhRMA
950 F street NW
Suite 300
Washington, DC 20004

Phone: 202/835-3400
Fax: 202/835-3414

Additional Information:

Partnership for Prescription Assistance is a program sponsored by PhRMA aimed at helping patients who lack prescription coverage.

Author: Solomon Yirdaw



United States Pharmacopeia

www.usp.org

Overview

The United States Pharmacopeia (USP) is an independent, non profit, and volunteer-based organization. The USP acts as the national standards setting authority for consumer, pharmaceutical, and health care products to ensure patient safety. This organization is responsible for establishing standards to guarantee the quality of medicines and related products used to prevent and treat disease. For example, federal law requires that all drugs available in the United States, both prescription and over-the-counter, must meet USP's standards.

In an effort to promote safer patient care, USP operates two programs: the Medication Errors Reporting Program and Medmarx®. The Medication Errors Reporting Program was developed for pharmacists treating patients on medication. Medmarx® is the error reporting program for physicians and nurses treating patients in the hospital. USP's drug classification system allows for the organization to provide unbiased information on medications and drug use to health care professionals that work to affect public health around the world.

School of Pharmacy Interests

The Experiential Learning Program and the Maryland P3 Program share similar quality standards for patient care as USP. In addition, several of the faculty at University of Maryland emphasize the importance of advocating for the advancement of pharmacy and would take interest in USP's global health and public policy sectors.

Opportunities for Involvement

- USP offers summer internships in several different areas of the organization. Students can study global public health, public policy, quality of patient care, and quality of medicines, supplements and food ingredients.
- As the nation's standards setting organization, there are several opportunities for research with the School of Pharmacy.

Contact Info:

United States Pharmacopeia
12601 Twinbrook Parkway
Rockville, MD 20852-1790
Phone: 800-227-8772
E-mail: humanresources@usp.org

Additional Information:

For those interested in applying for the summer internship program, information is available at:
<http://www.usp.org/aboutUSP/careers/internship.html>

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Chain Pharmacies



www.costco.com



www.cvs.com



www.giantfood.com



www.kmart.com



www.riteaid.com



www.safeway.com



www.SamsClub.com



www.shoppersfood.com



www.superfreshfood.com



www.target.com



www.walmart.com



www.walgreens.com



www.weismarkets.com

Independent Pharmacies

Appendix B

<u>Business</u>	<u>Address</u>	<u>City & Zip Code</u>	<u>Phone</u>	<u>AIDS/HIV</u>	<u>Compounding</u>	<u>Vet Meds</u>	<u>Diabetic Supplies</u>	<u>DME</u>	<u>Ostomy</u>	<u>Fertility</u>	<u>Nutrition</u>	<u>Altern. Med</u>	<u>Incont. Supplies</u>	<u>Prosth/Orth</u>	<u>Resp. Care</u>	<u>Long Term Care</u>	<u>Mental Health</u>
Sherwood Hall CARE	2616 Sherwood Hall Ln #100	Alexandria, VA 22306	703-780-4612														
Medpro RX	3833 Fairfax Dr	Arlington, VA 22203	703-312-6302														
Preston's CARE	5101 Lee Highway	Arlington, VA 22207	703-522-3414	X													
Medicap	44260 Ice Rink Plz	Ashburn, VA 20147	703-858-9616	X			X	X		X						X	
Twins Pharmacy Inc	11446 Cherry Hill Rd	Beltsville 20705	301-931-0057														
Bradley CARE Pharmacy	6900 Arlington Rd	Bethesda 20814	301-654-6776		X												
Foer's Pharmacy #3	8218 Wisconsin Ave	Bethesda 20814	301-657-3500		X	X	X	X	X	X			X				
Glen Echo CARE	7311 Macarthur Bl	Bethesda 20816	301-229-5656					X									
Foer's Pharmacy #4	6420 Rockledge Dr	Bethesda 20817	301-493-4422		X	X	X	X									
Padek Healthcare	5403-A Annapolis Rd	Bladensburg 20710	301-277-7107		X	X	X	X	X	X			X	X	X		
Ramdass	4821 Annapolis Rd	Bladensburg 20710	301-779-3237		X		X										
Pharma Gabriel	6500 Seven Locks Rd	Cabin John 20818	301-263-1313														
Brookville	7025 Brookville Rd	Chevy Chase 20815	301-652-0600		X	X	X				X	X					
Chevy Chase CARE	8531 Connecticut Ave	Chevy Chase 20815	301-986-5354														
Wellcare PharmRX	5530 Wisconsin Ave #100	Chevy Chase 20815	301-657-3388		X	X	X	X					X	X			
Hollywood	4936 Edgewood Rd	College Park 20740	301-345-3400		X		X	X					X	X			
Hollywood Drugs	10001 Rhode Island Ave	College Park 20740	301-345-4700														
Naturalhealth Pharmacy Inc	9920 Rhode Island Ave	College Park 20740	301-345-2699														
Twins CARE	6201 Greenbelt Rd	College Park 20740	301-313-0080				X								X	X	
Columbia Hickory CARE	10805 Hickory Ridge Rd	Columbia 21044	410-964-6409														
Feldman's Pharmacy	11055 Little Patuxent Pkwy	Columbia 21044	410-964-8444					X									
Hana	10780 Fairfax Blvd	Fairfax, VA 22030	703-273-9010		X	X	X		X	X							
Prosperity CARE	8505 Arlington Blvd Ste 110	Fairfax, VA 22031	703-846-9908	X	X			X		X				X			X
New World	6668 Arlington Blvd	Falls Church, VA 22042	703-237-8178				X		X				X				
Prosperity Outpatient	3300 Gallows Rd	Falls Church, VA 22042	703-776-2389														
7 Corners	2946 Sleepy Hollow Rd	Falls Church, VA 22044	703-532-8989		X		X	X		X			X		X		
Falls Church	6757 Wilson Blvd Ste 15	Falls Church, VA 22044	703-237-2182														
East West	113 E Annandale Rd	Falls Church, VA 22046	703-237-5588														
Jefferson Memorial	98 N Washington St	Falls Church, VA 22046	703-891-1881														
Diamond CARE	226 E Diamond Ave	Gaithersburg 20877	301-926-1000														

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Vashan	9005 Shady Grove Ct	Gaithersburg 20877	301-947-4747														
Germantown	19735 Germantown Rd Ste 175	Germantown 20876	301-515-9222	X			X	X					X				
Supreme Pharmacy LLC	7936 Johnson Ave	Glenarden 20706	301-322-8082														
Ten Oaks	3900-11 Ten Oaks Rd	Glenelg 21737	410-531-9699	X	X	X	X	X	X	X			X				
Smeeta Inc	13410 Clarksville Pike	Highland 20777	301-854-9095														
Lawson's	3415 Hamilton St	Hyattsville 20782	301-864-4043	X			X	X	X	X			X				
Prince Georges	2955 Mercy Ln	Hyattsville 20785	301-341-7335														
Kensington	3737 University Bl W	Kensington 20895	301-933-6165	X	X	X	X	X	X	X			X	X	X		
Knowles Apothecary	10400 Connecticut Ave	Kensington 20895	301-942-7979	X	X	X					X	X					
Main Street CARE	653 Main St	Laurel 20707	301-317-3838	X	X	X	X										
Medcare Pharmacy Services	14900 Sweitzer Ln	Laurel 20707	301-497-6171														
Lansdown	19465 Deerfield Ave	Leesburg, VA 20176	703-723-2500														
McLean Med Center	1515 Chain Bridge Rd	McLean, VA 22101	703-356-0356	X			X		X	X			X				
Medicine Chest	6823 Old Dominion Dr	McLean, VA 22101	703-827-0990					X									
Village Pharmacists	19271 Montgomery Village	Montgomery Village 20888	301-948-8545	X	X	X	X		X	X			X		X		
Olney Professional	18111 Prince Philip Dr Ste 100	Olney 20832	301-774-9812	X	X	X	X	X	X	X				X			
Poolesville	17710 Elgin Rd	Poolesville 20837	301-349-5145														
Reston Lakeside	1641 Washington Plz N	Reston, VA 20190	703-437-0040														
Advanced Pharmacy	1235 Potomac Valley Rd	Rockville 20850	240-328-6154														
Ambulatory Pharmacy #1	9715 Medical Center Drive	Rockville 20850	301-424-1411														
Dart Drug Stores Inc	15136 Frederick Rd	Rockville 20850	301-340-0551														
Shady Grove	15225 Shady Grove Rd #101	Rockville 20850	301-948-4222	X			X	X	X				X	X	X		
Kings Way Care	4701 Randolph Rd #G-4	Rockville 20852	301-770-5545	X	X	X	X	X	X	X			X				
Rodmans Discount Drugs	4945 Wyaconda Rd	Rockville 20852	301-230-8936														
Tenley Professional	50 W Edmondson Dr 104	Rockville 20852	301-294-2730														
White Flint	11125 Rockville Pike	Rockville 20852	301-881-3828														
Roper Drugs & Supplies Inc	13305 Keating St	Rockville 20853	301-949-0444														
Allied Pharmacy #2	1201 Seven Locks Rd	Rockville 20854	301-309-0999														
Friends	17340 Quaker Ln	Sandy Spring 20860	301-774-2201														
Maxim	636 University Blvd E	Silver Spring 20901	301-439-6878	X													

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Alfa Speciality	10301 Georgia Ave	Silver Spring 20902	301-754-2532														
Hillandale Pharmacy	10214 New Hampshire Ave	Silver Spring 20903	301-434-5100		X		X	X					X				
University Bl Professional	831 University Blvd E	Silver Spring 20903	301-445-1100														
Union	13848 Old Columbia Pike	Silver Spring 20904	301-384-5622														
Leisure World	3305 N Leisure World Bl	Silver Spring 20906	301-598-1005		X		X	X	L				X				
Randolph	12751 Layhill Rd	Silver Spring 20906	301-933-3789														
Kemet Care	8725 1st Ave	Silver Spring 20910	301-657-3388														
Service Care	1111 Spring St Ste 110	Silver Spring 20910	301-495-7775		X	X	X	X	L	L			X	X			
Upscale Care	930 Wayne Ave Ste 100	Silver Spring 20910	301-585-8005		X	X	X	X		L			X	X			
Walker Pharmacy Inc	7849 Eastern Ave	Silver Spring 20910	301-565-5960														
Langley Park CARE	7676 New Hampshire Ave Ste 104	Takoma Park 20912	301-445-6050														
Vienna Drug Center	150 W Maple Ave	Vienna, VA 22180	703-938-7111		X		X	X	L	L			X				
Progress Pharmacy Limited	8321 Old Courthouse Rd	Vienna, VA 22182	703-288-3301														
Mt. Olivet CARE	1809 West Virginia Ave NE	Washington DC 20002	202-529-7001	X													
Sterling CARE	1647 Benning Rd NE Ste 101	Washington DC 20002	202-399-7877	X													
Super CARE	1019 H St NE	Washington DC 20002	202-388-0050	X	X		X	X									
Tschiffely Union Sta	50 Massachusetts Ave NE	Washington DC 20002	202-408-5178		X	X	X	X	L	L					X		
Capitol Hill CARE	650 Pennsylvania Ave SE	Washington DC 20003	202-548-0008	X													
Grubb's CARE	326 E Capitol St NE	Washington DC 20003	202-543-4400	X	X	X		X									
Robinson's Apothecary	922 E Capitol St	Washington DC 20003	202-544-1600														
Bioscrip/Statscript	1325 14th St NW	Washington DC 20005	202-332-8811														
Foer's Pharmacy #1	818 18th St NW	Washington DC 20006	202-775-4400		X		X		L	L			X	X			
Dumbarton	3146 Dumbarton St NW	Washington DC 20007	202-338-1020														
Morgan CARE	3001 P St NW	Washington DC 20007	202-337-4100	X													
Cathedral CARE	3000 Connecticut Ave NW	Washington DC 20008	202-265-1300	X													
Columbia Heights CARE	3316 14th St NW	Washington DC 20010	202-232-1455	X													
Mount Pleasant CARE	3169 Mount Pleasant St NW	Washington DC 20010	202-387-3100	X													
New Hampshire CARE	5001 New Hampshire Ave NW	Washington DC 20011	202-726-3100	X													
Petworth CARE	4809 Georgia Ave NW	Washington DC 20011	202-722-4330	X													
Phamily CARE	6323 Georgia Ave NW	Washington DC 20011	202-722-0171	X													

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Walker	708 Kennedy St NW	Washington DC 20011	202-882-8214														
Chevy Chase Center	3812 Northampton St NW	Washington DC 20015	202-966-8600		X		X		L	L			X				
Wellington	4900 Massachusetts ave NW	Washington DC 20016	202-363-9240		X	X	X	X	L				X	X	X		
Alpha CARE	1160 Varnum St NE	Washington DC 20017	202-832-2200				X				X	X					
Apex CARE	1638 R St NW Ste 1	Washington DC 20019	202-265-7979	X													
Seat Pleasant CARE	4047 Minnesota Ave NE	Washington DC 20019	202-388-1900	X													
Neighborhood CARE	350 Eastern Ave NE	Washington DC 20019	202-396-3400	X													
State CARE	1932 Martin Luther King Ave S	Washington DC 20020	202-889-1119	X													
Good CARE	2041 Martin Luther King Ave S	Washington DC 20020	202-610-2100	X													
Tschiffely	2906 Martin Luther King Jr. Ave	Washington DC 20032	202-561-4343														
Tschiffely of 19th St	1330 Connecticut Ave NW	Washington DC 20036	202-331-7176		X	X	X	X	L	L			X		X		
Foer's Pharmacy #2	1145 19th St NW	Washington DC 20036	202-466-8440		X	X	X	X	L	L			X		X		
Foggy Bottom Apothecary Inc	2141 K St NW	Washington DC 20037	202-296-7190		X	X	X	X	L	X			X				
Discount Drugs/Rodman	1118 22nd St N	Washington DC 20037	202-296-9340														
	5100 Wisconsin Ave NW	Washington DC 20915	202-363-7233														