

SPC - Subcommittee

- Charge: Develop a New HHS/USDA/DHS/AAVMC Partnership Program to Encourage Students and DVM/VMD's to Move Into Biomedical Research Careers

Members

- John Baker
- Jim Fox
- Cyril Gay
- Franziska Grieder
- Ricardo Ochoa
- Al Rebar
- Leigh Sawyer
- Marguerite Pappaioanou

Subcommittee Charge

- Develop proposals for agencies to develop funding mechanisms to support veterinary public practice training programs for DVM/VMD's.
 - **Comprehensive**
 - Microbiologists, Biochemists, Pharmacologists, Pathologists, Epidemiologists, Public Health and Preventive Medicine Specialists...

Charge – Part 2

- Develop the overall program needs.
- Develop the plans for meeting these needs.

Report

- The needs have been identified – at least in part – in the recent NAS report:
 - National Need and Priorities for Veterinarians in Biomedical Research.
- Future: NAS BANR “National Needs for Research in Veterinary Science”

NAS Report

- Jim Fox Chair
- National Need and Priorities for Veterinarians in Biomedical Research (2004)
 - <http://books.nap.edu/books/0309090830/html/27.html#pagetop>
 - Reference to ACLAM Report

ACVP Report

- <http://www.acvp.org/career/employsurv.pdf>
- Confirmed a critical shortage of veterinary anatomic and clinical pathologists
- Predicted the situation would worsen
 - Continuing deficit in supply
 - Increases in demand
 - Retirements

ACVP

- 48% of veterinary pathology positions are unfilled.
- Projected deficits by 2011
 - 550 Veterinary Pathologists
 - 110 Veterinary Clinical Pathologists

Institute of Medicine Report

- “Microbial Threats to Health: Emergence, Detection, and Response”
- <http://www.nap.edu/books/030908864X/html/>
- Cites need to build multidisciplinary capacity of academic centers to address research & public health issues – emerging infectious diseases

Subcommittee Report

- There is the need to distribute information about programs that already exist – example the NIH-NCRR training programs.
 - Changes in last three years – less \$ left on table
- USDA has a new program to support education of DVM/VMD's to PhD.
 - Needs Funding

Opportunities – Web Site

- John Baker at Mich. State
- Web Site to inform veterinary students and Post-DVM students of research opportunities:
 - <http://cvm.msu.edu/ORG/rgs/nationalwebsite.htm>

NCCR Grants - Training

- **NCCR-National Institutes of Health (NIH)**
(<http://grants.nih.gov/training/extramural.htm>)
- Francesca Grieder
- Focus on laboratory animal veterinarians and pathologists
 - Definite need areas
 - Additional needs in biomedical research fields

NCR

- **NIH NATIONAL RESEARCH SERVICE AWARD INSTITUTIONAL RESEARCH TRAINING GRANTS (T32 OLD) - PA NUMBER: PA-02-109**

NCRR

- **NCRR TRAINING GRANT FOR VETERINARY STUDENTS IN ANIMAL-ORIENTED, HYPOTHESIS-BASED RESEARCH (T32 NEW)** (see [NOT-RR-02-010](#)) - PA NUMBER: PA-01-138

NCRR

- **PROFESSIONAL STUDENT SHORT-TERM RESEARCH TRAINING GRANTS (T35)**

NCRR

- **MENTORED RESEARCH SCIENTIST
DEVELOPMENT AWARD (K01) - PA
NUMBER: PA-00-019**

Marguerite Pappaioanou - CDC

- EIS <http://www.cdc.gov/eis/>
 - Epidemic Intelligence Service
 - Two Year Training Program
 - Requires MPH or Year of Similar Experience
 - Need MPH Training Programs for Veterinarians

EIS Article

- Pappaioanou, M., Garbe, P.L., Glynn, M.K., and Thacker, S.B.: Veterinarians & Public Health: The Epidemic Intelligence Service of the Centers for Disease Control and Prevention, 1951-2002.
- JVME 30(4): 383-391. 2003.

CDC Programs

- EID Post Doctoral Laboratory Research Fellowship Program <http://www.cdc.gov/ncidod/eid/fp.htm#eidpost>

CDC

- ASM/NCID Post-Doctoral Research Associates Program in Infectious Diseases and Public Health Microbiology
- <http://www.asm.org/Education/index.asp?bid=15497>

USDA – Cyril Gay

- ARS
 - 2200 Scientists working in 100 laboratories
 - 44 Veterinarians
- Pilot Program for PhD for Veterinarians
 - <http://www.aasv.org/news/story.php?id=741>.
- Program currently not funded.
- SE Poultry Laboratory – Funds for Student Trainee at UGA

ARS Program – Needs \$\$

- Veterinary Medicine Doctoral Program
- For DVM/VMD to Obtain PhD
- ARS pays stipend while student is enrolled in full time PhD program
 - Also pays tuition, books, lab fees
- After receiving PhD, graduate must work for ARS at least 3 years

Service Academy Model

- Tuition and Stipend for 4 year DVM program
- Must serve in underserved area and/or public practice career field
 - Year for Year Payback in Service or Repay Federal Funds
- One Issue: Salary differentials between industry and government/academic positions.

ACVP/STP Initiative

- Aggressive Campaign to Form Partnerships with Industry to Fund Post-DVM Educational Opportunities in Pathology/Clinical Pathology.
 - Dedicated Individual to Accomplish Mission
- Could Concept be Extended to Include Other Needed Post-DVM Education?
 - Pharmacology or Molecular Biology

Expansion of the ACVP/STP Strategy

- Seek at least \$1M per year for 10 years
 - Industry/Private Sector Funds
- Administer through AAVMC
- Include several fields
 - Pharmacology
 - Genomic Sciences
 - Pathology/Clinical Pathology
 - Toxicology

Another Model

- Agricultural Disaster Research Institute
 - Auburn
 - K State
 - Mich State
 - NC State
 - Research Triangle Institute (RTI)

AgDRI

- Modeled after the Semiconductor Research Corp.
- Seeking support from multiple levels of the food system – examples:
 - Producers
 - Retail
 - Transportation
 - Financial and energy

AgDRI

- Working to establish proof of concept
- Developed a “roadmap”
 - Barrett Slenning NC State
 - Assigned to RTI for one year
- Follow up to Lonnie King recommendation
 - Skunk works
- Expand veterinary college membership

Network Educational Opportunities

- Don't Forget
 - Comparative Medicine Departments
 - Departments of Veterinary Science
- What worked in the past?
- What has changed?
- What do we need to restore?
- What new funding strategies are needed?