



2019 NA EEHV Workshop Advisory Group – Research Committee Update

Priya Bapodra, Sharon Deem, Ramiro Isaza,
Michele Miller, Chuck Richardson



Committee Activities

- Create and maintain a global EEHV-related research database
- Maintain and update the EEHV-related research priority list
- Receive and manage EEHV research support letter requests

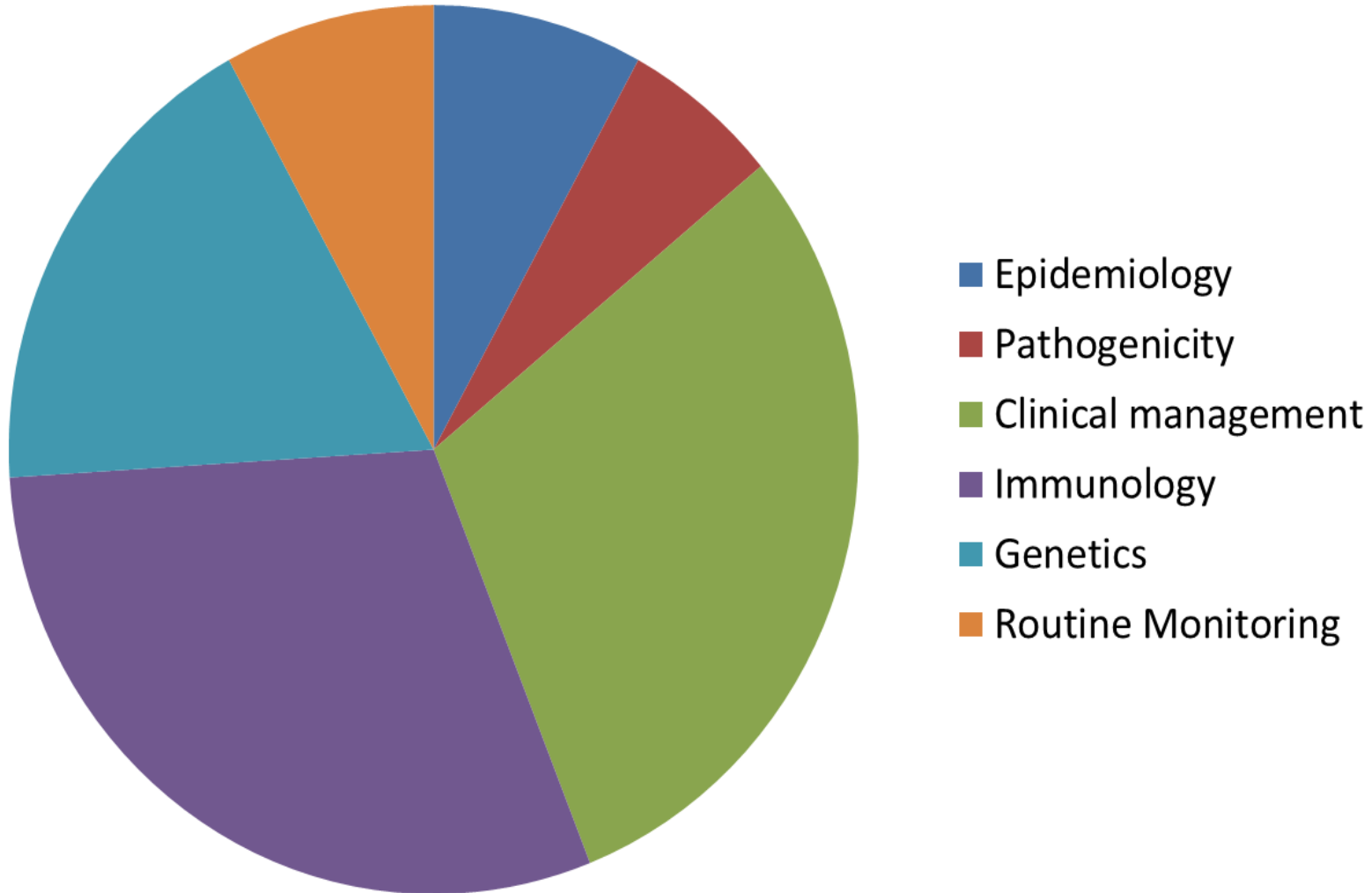
List of EEHV Research Projects

- Compilation of global EEHV projects
- Europe, Asia, US researchers contacted
- Both Asian and African species
- Current active project list = 50
 - Title
 - PI, Co-PIs
 - Primary institution, collaborators
 - Funding info, geographical region

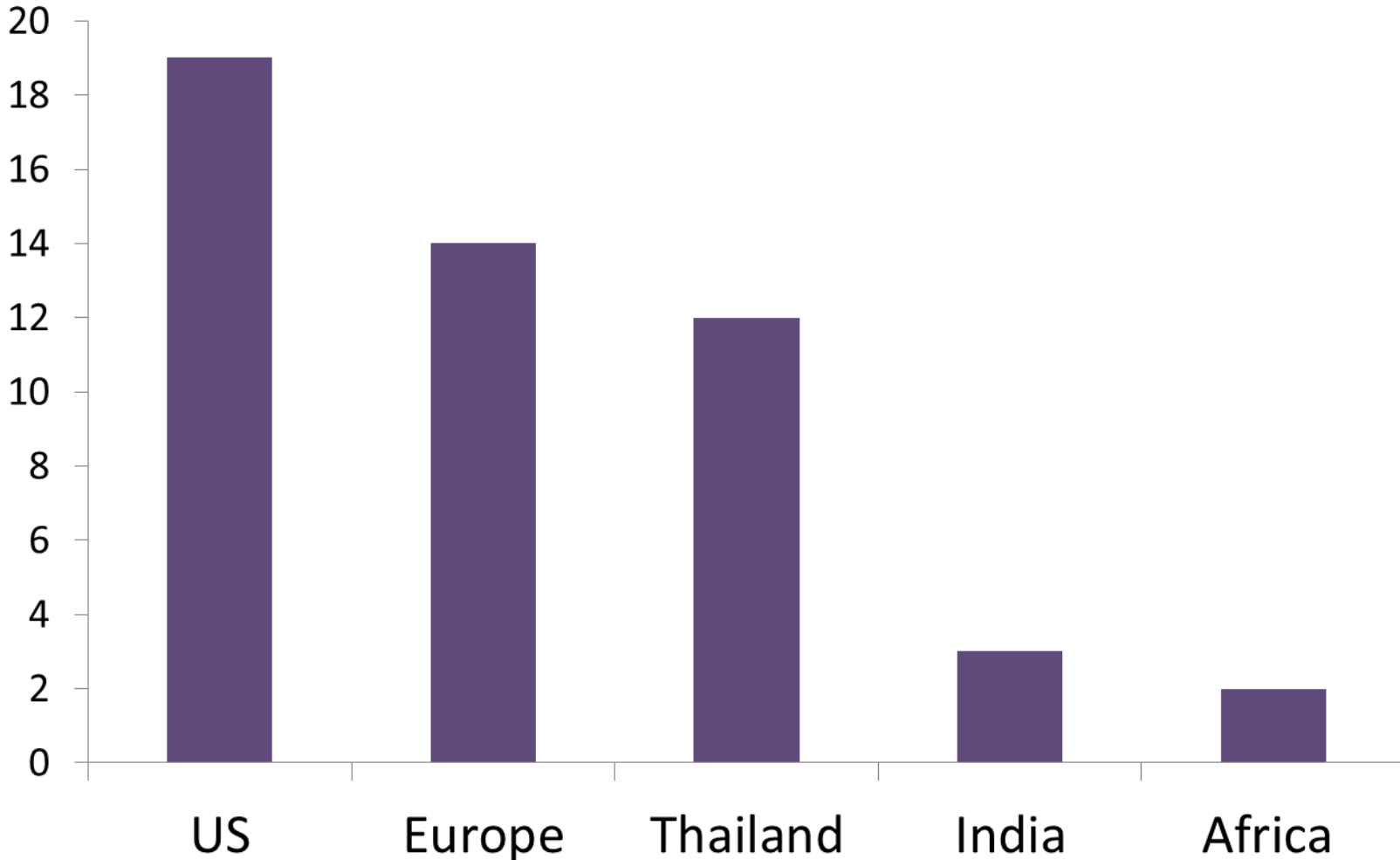
List of EEHV Research Projects

- Characterised into 6 groups
 - Epidemiology, Immunology, Genetics, Pathogenicity, Clinical management, Routine monitoring
- Projects will remain 'confidential' and within AG
- Researchers within these categories will be posted on eehvinfo.org

List of EEHV Research Projects



List of EEHV Research Projects



Project Database

2018 Research Priorities Update

| Research priorities | 2016 | 2018 |
|--|-----------|------|
| Antibody test | 3 | N/A |
| African elephant epidemiology | 2 | N/A |
| Risk factors associated with EEHV HD | 4 | 13 |
| Pathogenesis, pathophysiology of hemorrhagic disease (HD) | 12 | 9 |
| Early morphological changes to detect disease/ timely detection of EEHV-HD | 2 | 9 |
| Vaccine development | 6 | 8 |
| Elephant host immune response: adaptive (T cells, antibodies) | 4 | 8 |
| Wild Asian elephant surveys | 1 | 3 |
| Antiviral efficacy | 12 | 2 |
| Elephant host immune response; innate (cytokines, acute phase proteins) | 1 | 2 |

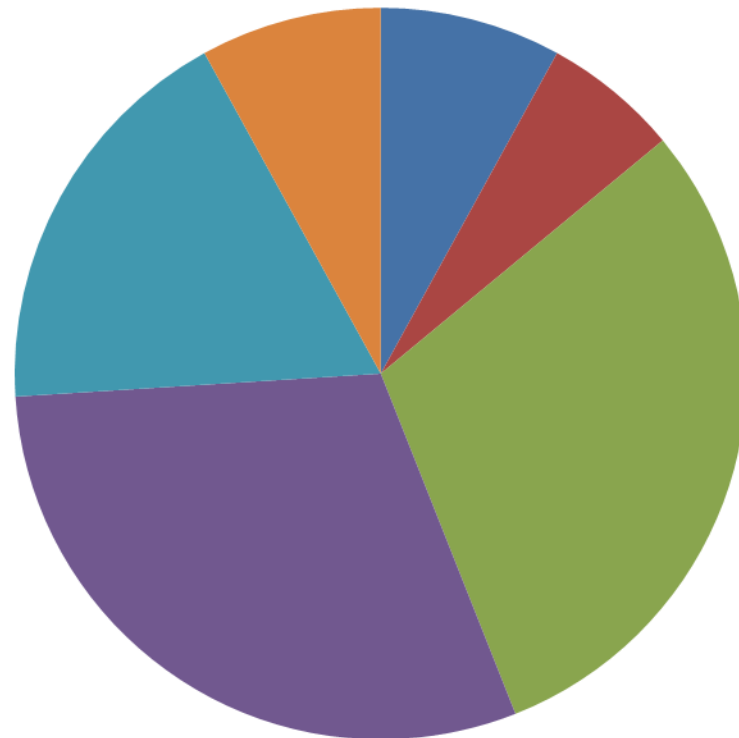
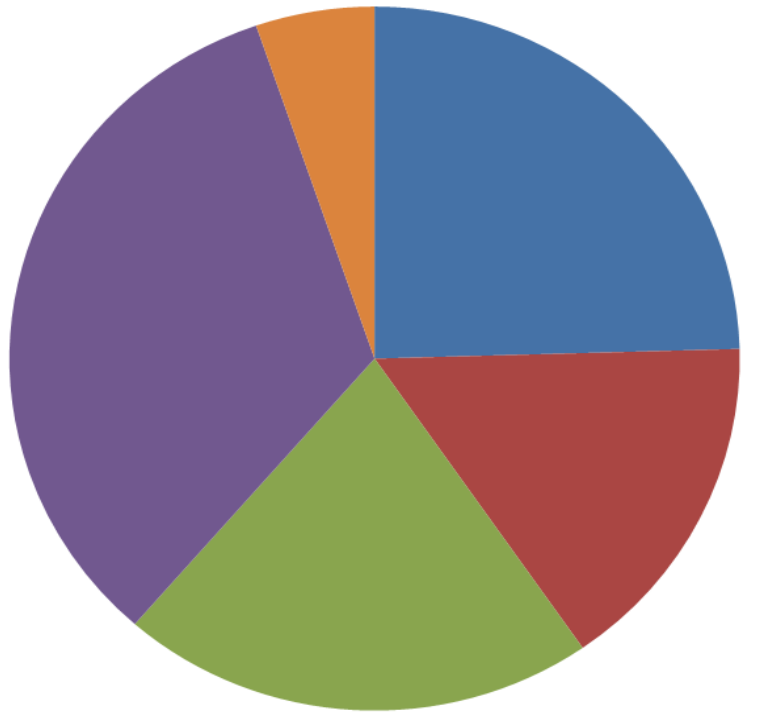
2018 Research Priorities Update

| Research priorities | 2016 | 2018 |
|--|-----------|------|
| Virus culture | 16 | 1 |
| EEHV shedding (origin of shedding, saliva vs trunk wash, fetal fluids) | 2 | 1 |
| Hemostatic response; clotting, platelets etc. | 3 | 1 |
| Genetics related to EEHV (Elephant genetics) and viral evolution | 1 | 0 |
| Aciclovir PK in Asian elephants | 1 | 0 |
| Famciclovir PK in African elephants | 0 | 0 |
| Ganciclovir PK in Asian elephants | 0 | 0 |
| Immunohistochemistry | 1 | 0 |
| African elephant epidemiology | N/A | 0 |

2018 Research Priorities Update

| Research priorities | 2016 | 2018 |
|---|------|-----------|
| Antibody test | 3 | N/A |
| African elephant epidemiology | 2 | N/A |
| Risk factors associated with EEHV HD | 4 | 13 |
| Pathogenesis, pathophysiology of hemorrhagic disease (HD) | 12 | 9 |
| Early morphological changes to detect disease/ timely detection of EEHV-HD | 2 | 9 |
| Vaccine development | 6 | 8 |
| Elephant host immune response: adaptive (T cells, antibodies) | 4 | 8 |
| Wild Asian elephant surveys | 1 | 3 |
| Antiviral efficacy | 12 | 2 |
| Elephant host immune response; innate (cytokines, acute phase proteins) | 1 | 2 |

Research Priorities and Active Project Comparison



- Epidemiology
- Pathogenicity
- Clinical management
- Immunology
- Genetics
- Routine Monitoring

EEHV Advisory Group Endorsement


- Does not guarantee samples or funding
- 3 projects submitted for endorsement since 1/19
- Reviewed by at least 3 reviewers
- Inclusion of husbandry staff in review process
- Endorsement letters sent out within 14 days
- **Instructions for submission can be found at**
<http://eehvinfo.org/eehv-advisory-group/>

EEHV Advisory Group Endorsement


Endorsement Update

The screenshot shows a web browser window with the URL <http://eehvinfo.org/eehv-advisory-group/>. The page title is "Current EEHV AG Committee Assignments" with a person icon. Below the title, there are four columns representing different committee areas: Outreach, Research, Vet/Management, and Scientific Program. Each column lists the chair and members. Below the committee assignments, there is a section titled "Request for EEHV Advisory Group Research Support" with a person icon, followed by instructions for researchers. At the bottom, there is a section titled "Useful Links" with a link icon. The browser's taskbar at the bottom shows various application icons including Internet Explorer, Chrome, and Word.


http://eehvinfo.org/eehv-advisory-group/

Current EEHV AG Committee Assignments 

| Outreach | Research | Vet/Management | Scientific Program |
|--|---|--|---|
| Chair: Jill Allread | Chair: Priya Bapodra | Chair: Noha Abou-Madi | Chair: Mike Mclure |
| Members | Members | Members | Members |
| Avery Elander Kali Holder Luis Padilla Ronda Saiers Jackie Wallace | Chuck Richardson Michele Miller Ramiro Isaza Sharon Deem | Dennis Schmitt Carlos Sanchez Jaime Landolfi Charlie Gray | Christine Molter Nick Newby Lauren Howard Erin Latimer Debbie Olson |

Request for EEHV Advisory Group Research Support 

Instructions for interested researchers to gain EEHV Advisory Group support can be found [HERE](#). A letter can be given providing support for the project from the EEHV Advisory Group. This letter of support may signify that the project is feasible, scientifically sound, and aligns with the EEH Advisory Group research priorities. It does not guarantee funding or that samples will be provided.

Useful Links 

Thank You – Any Questions?



EEHV

Advisory Group

