Anopheles stephensi Landscaping Review

MESA

RBM Partnership to End Malaria - Vector Control Working Group
18th Annual Meeting
MESA gathers and shares knowledge to catalyze research and inform decisions responding to the needs of malaria-endemic countries.

- Mapping the landscape of active malaria projects with the MESA Track tool
- Creating effective avenues for stakeholders to use emerging data for policies and strategies
- Supporting evidence generation to bridge the gap between malaria research and impact
MESA Track is a living database of global malaria projects with updated information on institutions, project sites, and funding.

### All Projects (as of 31 January 2023)

<table>
<thead>
<tr>
<th>Category</th>
<th>Total</th>
<th>Active</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TOTAL PROJECTS</strong></td>
<td>2178</td>
<td>335</td>
</tr>
<tr>
<td><strong>TOTAL FUNDING</strong></td>
<td>$4.80B</td>
<td>$1.49B</td>
</tr>
<tr>
<td><strong>PROJECT SITES</strong></td>
<td>144</td>
<td>105</td>
</tr>
<tr>
<td><strong>PRINCIPAL INSTITUTIONS</strong></td>
<td>587</td>
<td>200</td>
</tr>
</tbody>
</table>

**How to use MESA Track?**

- Highlight your work
- Illustrate your research strategy

**Researchers & Institutions**

**NMCPs**
- Track malaria research in your country
- Identify innovative strategies being tested

**Policy-makers**
- Request for review evidence to revise policies

**Funders**
- Identify issues to solve

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- [www.mesamalaria.org](http://www.mesamalaria.org)
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- @MESA Malaria
Anopheles stephensi Landscaping review
(Deep Dive)

Objectives

1. Describe the geographic scale and scope of ongoing An. stephensi research and other projects.
2. Overview of the distribution of active An. stephensi surveillance or monitoring programmes.
3. Describe the funding sources for projects.
4. Document the list of questions under evaluation.
5. Identify or draw on any overlaps between the urban malaria Deep Dive and the An. stephensi Deep Dive.

<table>
<thead>
<tr>
<th>TOTAL PROJECTS</th>
<th>TOTAL FUNDING</th>
<th>PROJECT SITES</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>$66.1M</td>
<td>13</td>
</tr>
<tr>
<td>12 active</td>
<td>$9.57M active</td>
<td>6 active</td>
</tr>
</tbody>
</table>

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## Anopheles stephensi Landscaping review (Deep Dive)

<table>
<thead>
<tr>
<th>Research Area</th>
<th>Total Funding</th>
<th>Total Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gene modification</td>
<td>$29.4M</td>
<td>12</td>
</tr>
<tr>
<td>Vaccine production</td>
<td>$21.5M</td>
<td>13</td>
</tr>
<tr>
<td>Transmission blocking and dynamics</td>
<td>$9.27M</td>
<td>15</td>
</tr>
<tr>
<td>Genomics</td>
<td>$7.35M</td>
<td>10</td>
</tr>
<tr>
<td>Invasive species</td>
<td>$6.58M</td>
<td>9</td>
</tr>
<tr>
<td>Surveillance</td>
<td>$6.30M</td>
<td>12</td>
</tr>
<tr>
<td>Drug production</td>
<td>$522k</td>
<td>2</td>
</tr>
<tr>
<td>Insecticides</td>
<td>$63.0k</td>
<td>2</td>
</tr>
</tbody>
</table>

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Anopheles stephensi Landscaping review (Deep Dive)

24 Funding sources

- 15 Government institutions
- 8 Private institutions
- 1 Self-funded

Top 3 Funding Sources

- National Institute of Allergy and Infectious Diseases (NIAID), NIH: $48.8M
- Defense Advanced Research Projects Agency (DARPA), USA: $7.40M
- National Institute for Health Research, UK: $4.85M

Funding per Project site

- USA – $53.4
- Sudan – $6.5
- Ethiopia – $6.4M
- Burkina Faso – $2.7
- Japan – $1.54M
- Mauritius – $916K
- India – $903K
- Italy – 660K
- Indonesia – 161K
- China – 32K

* Australia, Sri Lanka and Yemen - Amount not captured
Anopheles stephensi Landscaping review
(Deep Dive)

Lead Institutions

Research / Academic
- Liverpool School of Tropical Medicine, UK
- QIMR Berghofer Medical Research, Australia
- University of Jaffna, Sri Lanka
- Armauer Hansen Research Institute, Ethiopia
- University of Notre Dame, USA
- National Institute of Malaria Research, India
- Etc...

National
- Ethiopia NMEP
- Yemen NMCP

Others

Principal Investigators (89% male)

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Main highlights

- 60 total projects (12 of them active)
- $66.1 M total funding with $9.57M active.
- 74% of total funding contributed by the NIH.
- Ethiopian NMEP and Yemen NMCP only national programmes captured.
- 89% of the project leads are men and perhaps suggests an opportunity to identify strategies for accelerating involvement of women in sustained support for vector control interventions.

It is necessary to track ongoing projects to improve exchange of information, know when new results will be obtained, boost partnership, aid research prioritisation, and work collectively across sectors in an integrated manner.
Send us your *Anopheles stephensi* research and activities via mesa@isglobal.org or use the ‘Submit a Project form’ on our website www.mesamalaria.org
Link can be found on the MESA website, Opportunities section.