Dear Editor in Chief:

Brazil has two main science funding agencies: the Coordination for the Improvement of Higher Education Personnel (CAPES), which provides financial support and evaluates student performance in postgraduate courses, and the National Council for Scientific and Technological Development (CNPq), which is devoted primarily to research funding. CNPq also offers a particular form of research grant called scientific productivity fellowship. Researchers who are the recipients of this grant are currently classified into two main categories: researcher category 1 and researcher category 2; category 1 researchers are subdivided into four levels: 1A, 1B, 1C, and 1D.1

According to the CNPq Advisory Committee, the criteria for the selection and classification of candidates for the scientific productivity scholarship include scientific output, human resource training, contribution to innovation, coordination and participation in research projects, participation in editorial activities, and scientific management. The CNPq Advisory Committee also stated that, because of the limited supply of scholarships, the following criteria are also used as classification parameters for all categories/levels: (1) number of publications and impact factor of the respective journals; (2) number of national and foreign patents; (3) number of PhD theses oriented and approved; (4) number of Master’s dissertations oriented and approved; (5) leadership of research groups; and (6) h-index.2

Despite facing a crisis in scientific investments3, Brazil stands out worldwide in key research areas, such as tropical medicine, dentistry, parasitology, and, more recently, the Zika virus and microcephaly4. In this context, many studies have examined the profile and scientific production of researchers supported by CNPq in several fields of knowledge5-9.

This letter describes the profile and scientific production of recipients of CNPq scientific productivity scholarships in tropical medicine and infectious diseases. We initially established a database of 542 researchers registered as CNPq medical fellows based on a list provided by the research funding itself in March 2018 (http://www.cnpq.br/web/guest/bolsistas-vigentes). Of the 542 medical researchers, the main areas of investigation of 51 researchers were tropical medicine and infectious diseases.

Using the Lattes curriculum directory publicly available on the Lattes Platform (http://buscatextual.cnpq.br/buscatextual/busca.do?metodo=apresentar), we constructed a database with information on each researcher comprising institution, time...
TABLE 1: Profile of the researchers in tropical medicine and infectious diseases granted with a scientific productivity fellowship by the Brazilian National Council for Scientific and Technological Development (CNPq).

<table>
<thead>
<tr>
<th>Number of researchers</th>
<th>Grant level (n)</th>
<th>Published articles (n)</th>
<th>Training of human resources (n)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SIS</td>
<td>MSc</td>
<td>PhD</td>
</tr>
<tr>
<td>Career</td>
<td>7,088</td>
<td>1004</td>
<td>546</td>
</tr>
<tr>
<td>Median</td>
<td>138.98</td>
<td>19.68</td>
<td>21.66</td>
</tr>
<tr>
<td>2013-2017</td>
<td>2,263</td>
<td>244</td>
<td>195</td>
</tr>
<tr>
<td>Median</td>
<td>44.37</td>
<td>4.78</td>
<td>6.21</td>
</tr>
</tbody>
</table>

SIS: Scientific Initiation Student; MSc: Master of Science; PhD: Doctor of Philosophy.

The 51 researchers belonged to 14 Brazilian states: São Paulo (n=17; 33.33%), Rio de Janeiro (n=11; 21.57%), Minas Gerais (n=6; 11.77%), Bahia (n=4; 7.85%), Rio Grande do Sul (n=3; 5.88%), Ceará (n=2; 3.92%), Amazonas (n=1; 1.96%), Goiás (n=1; 1.96%), Mato Grosso (n=1; 1.96%), Mato Grosso do Sul (n=1; 1.96%), Paraná (n=1; 1.96%), Pernambuco (n=1; 1.96%), Piauí (n=1; 1.96%), and Santa Catarina (n=1; 1.96%); most of them were men (n=32; 62.75%). Regarding home institution, tropical medicine and infectious diseases researchers were distributed among 19 different institutions in the country. The median time elapsed since earning the PhD degree was 19.10 years (IQ, 6–41).

Throughout their academic career, the 51 researchers had published 7,088 articles in scientific journals, with an average of 138.98 articles per researcher (ranging from 41 to 351 articles). Of the 7,088 articles, 4,965 (70.04%) were indexed in the Web of Science database (an average of 97.35 articles per researcher) and 5,276 (74.43%) articles were indexed in the Scopus database (an average of 103.45 articles per researcher). They also advised 1,004 undergraduate students conducting research (median of 19.68; range: 0–86), 1,105 Master’s students (median of 21.66; range: 5–63), and 546 PhD students (median of 10.70; range: 1–36). The median h-index at ISI of the fellows was 19.68; range: 0–86), 1,105 Master’s students (median of 21.66; range: 5–63), and 546 PhD students (median of 10.70; range: 1–36). The median h-index at ISI of the fellows was 19.68; range: 0–86), 1,105 Master’s students (median of 21.66; range: 5–63), and 546 PhD students (median of 10.70; range: 1–36). The median h-index at ISI of the fellows was 19.68; range: 0–86), 1,105 Master’s students (median of 21.66; range: 5–63), and 546 PhD students (median of 10.70; range: 1–36). The median h-index at ISI of the fellows was 19.68; range: 0–86), 1,105 Master’s students (median of 21.66; range: 5–63), and 546 PhD students (median of 10.70; range: 1–36). The median h-index at ISI of the fellows was 19.68; range: 0–86), 1,105 Master’s students (median of 21.66; range: 5–63), and 546 PhD students (median of 10.70; range: 1–36). The median h-index at ISI of the fellows was 19.68; range: 0–86), 1,105 Master’s students (median of 21.66; range: 5–63), and 546 PhD students (median of 10.70; range: 1–36).

The most significant scientific publications are indexed in the Scopus (74.43%) and Web of Science (70.04%) databases. However, the comparison between these researchers and similar groups from other countries is difficult because of the scarcity of studies in this field. Studies addressing this issue could effectively contribute to a more resourceful distribution of resources among competing researchers.

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REFERENCES


