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Declarations under Rule 4.17:

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- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

Published:

- with international search report (Art. 21(3))
- with sequence listing part of description (Rule 5.2(a))

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23 February 2012

(54) Title: POLYNUCLEOTIDE SEQUENCE, PROCESSES, COMPOSITION AND METHODS THEREOF

(57) Abstract: The present disclosure relates to a polynucleotide sequence coding for a protein of Trypanosoma species. The disclosure further provides processes for inhibiting said protein for treatment of protozoan infections, Malaria and Surra, by Geldanamycin and 17-AAG. The disclosure also relates to processes for identification of these inhibitions, compositions and method of treatments of said infections. Lastly, the present disclosure also relates to examining the efficacy of Hsp90 inhibitor as an anti-malarial and anti-surra agents.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2011/052475

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl.

C12N 15/30 (2006.01) *C07K 14/44* (2006.01)
A61K 31/395 (2006.01) *G01N 31/00* (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 WPI; EPODOC; MEDLINE; GenomeQuest. Keywords: heatshock protein 90; HSP90; Trypanosoma; Plasmodium; geldanamycin; 17-AAG and similar.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| | US 2007/0207992 A1 (WENKERT, D <i>et al.</i>) 6 SEPTEMBER 2007 | |
| X | See [0009], [0056], [0057], [0059] [0063], [0068]- [0071] | 3 - 7, 16 - 19 |
| | BOSHOFF, A. <i>et al.</i> , 'Molecular chaperones in biology, medicine and protein biotechnology', South African Journal of Science, 2004, Vol. 100, pages 665 - 677. | |
| X | See Page 670, last para.; page 671 | 3 - 7, 16 - 19 |

 Further documents are listed in the continuation of Box C See patent family annex

* Special categories of cited documents:

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"P" document published prior to the international filing date but later than the priority date claimed

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06/12/2011

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/IB2011/052475

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

| Patent Document Cited in Search Report | Patent Family Member |
|---|----------------------|
| US 2007207992 | WO 2007098229 |
| <p>Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.</p> <p style="text-align: right;">END OF ANNEX</p> | |