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(71) Applicant (for all designated States except US): **WAYNE STATE UNIVERSITY** [US/US]; 656 West Kirby, 4249 FAB, Detroit, Michigan 48202 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SPENCE, Dana** [US/US]; 8900 Giovanni Court, Howell, Michigan 48855 (US). **REID, Gavin Edmund** [AU/US]; 4725 Thurlby Road, Mason, Michigan 48854 (US).

(74) Agents: **SUTER, David L.** et al; Harness, Dickey & Pierce, P.L.C., P.O. Box 828, Bloomfield Hills, Michigan 48303 (US).

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(54) Title: ERYTHROCYTE ATP-RELEASE MODULATORS

(57) Abstract: Erythrocyte ATP-release modulators and composition and methods for their use to potentiate serum glucose clearance and vasodilation; methods for prophylactic or palliative therapy of glucose processing or vascular disorders; processes for preparing the modulators and compositions comprising them; and kits therefor.



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## INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2008/003801

## A. CLASSIFICATION OF SUBJECT MATTER

INV. A61K38/17 A61K33/24 A61K33/14

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

## B. HELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
A61K

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 practical, search terms used)

EPO-Internal, WPI Data, EMBASE, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                                      | Relevant to claim No |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| X         | WO 2006/129095 A (CREATIVE PEPTIDES SWEDEN AB [SE]; RUTHERFORD JODIE [GB]; WAHREN JOHN []) 7 December 2006 (2006-12-07) paragraphs [0002], [0003]; claims 1, 2, 4-24<br>page 10, last paragraph<br>page 15, lines 16-19<br>page 6, lines 24-26          | 1-4, 6, 8-10, 12-59  |
| X         | JOHANSSON B ET AL: "Adenosine-induced myocardial vasodilation is improved by C-peptide in type 1 diabetes" DIABETOLOGIA, SPRINGER, BERLIN, DE, vol. 45, no. Suppl. 2, 1 August 2002 (2002-08-01), pages A197-A198, XP009105296 ISSN: 0012-186X abstract | 27-40                |



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European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Ludwig, Gerald

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## C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                                                                                                                                                                | Relevant to claim No |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| X         | <p>SPENCE DANAM ET AL: "Release of erythrocyte-derived ATP, a recognized stimulus of nitric oxide production, is increased upon incubation of erythrocytes with C-peptide"</p> <p>BLOOD, W.B.SAUNDERS COMPANY, ORLANDO, FL, vol. 108, no. 11, Part 1, 1 November 2006 (2006-11-01), page 450A, XP009104422</p> <p>ISSN: 0006-4971</p> <p>lines 4-10 from the bottom<br/>-----</p> | 27-40                |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|-------------------------------------------|---------------------|----------------------------|---------------------|
| wo 2006129095 A                           | 07-12-2006          | EP 1912669 A2              | 23-04-2008          |