

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
4 December 2008 (04.12.2008)

PCT

(10) International Publication Number
WO 2008/145385 A1

(51) International Patent Classification:
C12Q 1/26 (2006.01)

(21) International Application Number:
PCT/EP2008/004324

(22) International Filing Date: 30 May 2008 (30.05.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/924,821 31 May 2007 (31.05.2007) US

(71) Applicant (for all designated States except US):
BIOCRATES LIFE SCIENCES AG [AT/AT]; In-
nrain 66, A-6020 Innsbruck (AT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WEINBERGER, Klaus, Michael** [AT/AT]; Weidach 82, A-64114 Miem-
ing (AT). **GRABER, Armin** [AT/AT]; Fischnerstrasse
14e, A-6020 Innsbruck (AT). **RAMSAY, Steven, Lewis**
[AU/AU]; 31 Buckingham drive, Heidelberg 3084 (AU).

(74) Agents: **URNER, Peter** et al.; Mauerkircherstrasse 45,
81679 München (DE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,
CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE,
EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID,
IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC,
LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN,
MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV,
SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,
ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL,
NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG,
CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(54) Title: BIOMARKER AND METHOD FOR DETERMINING AN OXIDATIVE STRESS LEVEL

(57) Abstract: The present invention relates to a biomarker and a method for determining an oxidative stress level in a biological sample, which employs co- factor-dependent oxidative stress parameters, as well as a kit adapted for carrying out such a method. Preferably the co-factor is tetrahydrobiopterin.

