

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 December 2005 (08.12.2005)

PCT

(10) International Publication Number
WO 2005/115361 A3

(51) International Patent Classification⁷: **C07D 451/02**,
295/06, 211/22, 211/42, 211/48, 211/52, 211/56, 211/64,
211/62, 295/14, 207/12, 207/14

(74) Agent: **HART, Daniel**; KNOBBE MARTENS OLSON &
BEAR LLP, 2040 Main Street, 14th Floor, Irvine, Califor-
nia 92614 (US).

(21) International Application Number:
PCT/US2005/017143

(22) International Filing Date: 16 May 2005 (16.05.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/571,961 17 May 2004 (17.05.2004) US

(71) Applicant (for all designated States except US): **ACA-
DIA PHARMACEUTICALS INC.** [US/US]; 3911 Sor-
rento Valley Road, San Diego, California 92121 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SCHLIENGER**,
Nathalie [FR/DK]; Falstersvej 2, 1.tv., DK-2000 Fred-
eriksberg (DK). **PAWLAS, Jan** [CZ/DK]; Falkoner
alle 44, 4 t.h., DK-2000 Frederiksberg (DK). **FEJZIC**,
Alma [BA/DK]; Borgmester Fischers, Vej 5C, lejl. 1,
DK-2000 Frederiksberg (DK). **OLSSON, Roger** [SE/SE];
Klagshamnsvagen 99A, S-23044 Bunkflostrand (SE).
LUND, Birgitte Winther [DK/DK]; Regattavej 2, 1,
DK-2880 Bagsvaerd (DK). **BADALASSI, Fabrizio**
[IT/DK]; Borgergade 32, 6, DK-1300 Copenhagen K
(DK). **LEWINSKY, Rasmus** [DK/DK]; Kollegardsvej
61, DK-2730 Herlev (DK). **THYGESEN, Mikkel, Boas**
[DK/DK]; Silkeborggade 20, st.th., DK-2100 Copenhagen
O (DK).

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

(88) Date of publication of the international search report:
16 March 2006

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: ANDROGEN RECEPTOR MODULATORS AND METHOD OF TREATING DISEASE USING THE SAME

(57) Abstract: Disclosed herein are bicycloaryl compounds of Formula (I) that selectively modulate nuclear receptors, preferably the androgen receptor, or a pharmaceutically acceptable salt, ester, amide, or prodrug thereof, and methods of treating disease comprising administering a compound of Formula (I) to a patient in need thereof.



WO 2005/115361 A3