

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
19 December 2002 (19.12.2002)

PCT

(10) International Publication Number
WO 02/100851 A2

(51) International Patent Classification⁷: **C07D 333/40**,
413/04, 409/12, 409/04, 409/14, 495/04, 417/14, 413/12,
471/10, 417/12, 417/04, A61K 31/38, A61P 31/12, A61K
31/20

Cambridge, MA 02139 (US). **WANG, Wuyi** [CA/CA];
2297 Frenette, Ville St-Laurent, Québec H4R 1M3 (CA).
YANNOPOULOS, Constantin [CA/CA]; 55 Poncelet,
Ile Perrot, Québec J7V 8X3 (CA).

(21) International Application Number: PCT/CA02/00876

(74) Agents: **OGILVY RENAULT** et al.; Suite 1600, 1981
McGill College Avenue, Montreal, Québec H3A 2Y3
(CA).

(22) International Filing Date: 11 June 2002 (11.06.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/296,731 11 June 2001 (11.06.2001) US

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,
SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VN, YU, ZA, ZM, ZW.

(71) Applicant (*for all designated States except US*): **SHIRE
BIOCHEM INC.** [CA/CA]; 275 Armand-Frappier Blvd.,
Laval, Québec H7V 4A7 (CA).

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR,
GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent
(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG).

(72) Inventors; and

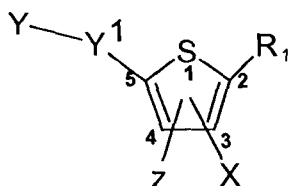
(75) Inventors/Applicants (*for US only*): **CHAN, Chun,
Kong, Laval** [CA/CA]; 27 Levere Street, Kirkland,
Québec H9J 3X8 (CA). **BÉDARD, Jean** [CA/CA]; 437
Lansdowne, Rosemère, Québec J7A 3G6 (CA). **DAS, San-
joy, Kumar** [IN/CA]; 553, 2ième rue, Laval, Québec H7V
1H7 (CA). **NGUYEN BA, Nghe** [CA/CA]; 175 Leotable
Dubuc, LaPrairie, Québec J5R 5M5 (CA). **PEREIRA,
Oswy, Z.** [CA/CA]; 12 Daudelin, Kirkland, Québec H2J
1L8 (CA). **REDDY, Thumkunta, Jagadeeswar** [IN/CA];
2130 Scott, #127, St-Laurent, Québec H4N 1T2 (CA).
SIDDIQUI, M., Arshad [CA/US]; 840 Memorial Drive,

Published:

— without international search report and to be republished
upon receipt of that report

*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: COMPOUNDS AND METHODS FOR THE TREATMENT OR PREVENTION OF FLAVIVIRUS INFECTIONS



(I)

(57) Abstract: The present invention provides novel compounds represented by formula I: or pharmaceutically acceptable salts thereof useful for treating flaviviridae viral infection.