

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
29 December 2022 (29.12.2022)



(10) International Publication Number
WO 2022/268983 A3

(51) International Patent Classification:

C07K 14/54 (2006.01) A61K 38/17 (2006.01)
C07K 14/715 (2006.01) A61K 38/20 (2006.01)
C07K 19/00 (2006.01) A61P 35/00 (2006.01)
A61K 35/17 (2015.01) A61P 35/02 (2006.01)
A61K 35/28 (2006.01)

(21) International Application Number:

PCT/EP2022/067236

(22) International Filing Date:

23 June 2022 (23.06.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

21181271.4 23 June 2021 (23.06.2021) EP
22163748.1 23 March 2022 (23.03.2022) EP

(71) Applicants: **CYTUNE PHARMA** [FR/FR]; 3 chemin
Pressoir Chenaie, 44100 Nantes (FR). **SOTIO BIOTECH**
A.S. [CZ/CZ]; Jankovcova 1518/2, 17000 Prague 7 (CZ).

(72) Inventors: **ADKINS, Irena**; Vinorská 370, 25073 Pre-
zletice (CZ). **NEDVEDOVA, Eva**; Pocerny 129, 36017
Karlovy Vary (CZ). **DE MARTYNOFF, Guy Luc Michel**;
10 rue de l'Orme, 1435 Mont-St-Guibert (BE). **MOEBIUS,**
Ulrich; Am Rain 7, 82131 Gauting-Unterbrunn (DE).
BÉCHARD, David; Le Courtil Lie-Dit L'Ornière, 44360
Saint-Etienne de Montluc (FR). **PECHOUCOVÁ, Sár-**
ka; Na Petrinách 196/50, 16200 Praha (CZ). **ANTOSOVÁ,**
Zuzana; Jerábková 2475, 25101 Ricany (CZ). **KYRYCH**
SADILKOVA, Lenka; Velvarská 991, 25262 Horomerice
(CZ). **BEERLI, Roger Renzo**; Rebrainstrasse 34, 8106
Adlikon bei Regensdorf (CH). **BAMMERT, Lukas**; Mar-
tinsgasse 18, 4051 Basel (CH). **WALDMEIER, Lorenz**;
Peter Rot-Strasse 66, 4058 Basel (CH). **VALENTOVÁ,**
Iva; Družstevní 207, 37367 České Budejovice (CZ).
HOSKOVÁ, Simona; Pelechovská 848/1, 19017 Prague 9-
Vinor (CZ).

(74) Agent: **MAIWALD GMBH**; Dr. Dirk Bühler, Elisenhof,
Elisenstraße 3, 80335 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, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH,
KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA,
MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU,
RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM,

TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM,
ZW.

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

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))
- with sequence listing part of description (Rule 5.2(a))

(88) Date of publication of the international search report:

06 April 2023 (06.04.2023)

(54) Title: INTERLEUKIN-15 BASED IMMUNOCYTOKINES

(57) Abstract: The present invention inter alia relates to immunocytokines involving IL-15 superagonists (based on IL-15 and the sushi domain of IL-15R α) and an antibody. The invention also provides nucleic acids, vectors, methods and medical uses.

WO 2022/268983 A3