Third Party Observations (TPOs) filed between May 2020 and December 2020

Note:

TPO No. refers to publisher's internal reference number.

Appl. No. provides information on the International Application No. and the Publication Number. National phase reflects information provided on WIPO's PATENTSCOPE database as at that date of preparing this document. However, this data is dynamic and may not provide accurate information on the actual status of the patent application.

TPO No.	66				
Appl. No.	WO2019144015				
Link to	https://patentscope.wi	po.int/search/en/de	tail.jsf?docId=WO20191440	<u>)15</u>	
Appl.					
Applicants	GILEAD SCIENCES	, INC.			
Priority	62/619,478 19.01.20)18 US			
Data					
Details	HIV: Applicant Gilead Sciences Inc. filed an application claiming metabolites of the antiviral drug bictegravir, including its compositions and salt forms, used for the prevention and/or treatment of HIV. TPO was filed in which 8 prior art documents were used to challenge novelty and/or inventive step.				
Date of Filing of TPO	19/5/2020				
National Phase	Office	Entry Date	National Number	National Status	
	Australia	25.06.2020	2019209594		
	Canada	29.06.2020	<u>3087359</u>		
	Japan	16.07.2020	2020539242		
	China	17.07.2020	201980009140.6	Published 01.09.2020	
	Republic of Korea	14.08.2020	<u>1020207023543</u>	Published 25.09.2020	
	European Patent Office	19.08.2020	<u>2019703916</u>	Published 25.11.2020	

TPO No.	67				
Appl. No.	WO2019148132				
Link to Appl.	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2019148132				
Applicants	MERCK PATENT G				
	VERTEX PHARMA		DRPORATED		
Priority Data		018 US			
Details			atent GMBH & Vertex Pha		
			ds containing bicyclic hete		
			diseases. TPO was filed in		
Date of	29/5/2020	to challenge novelt	y and/or only inventive step		
Filing of	29/3/2020				
TPO					
National	O.C.			National	
Phase	Office	Entry Date	National Number	Status	
	Israel	15.07.2020	276095		
	Singapore	15.07.2020	11202006701T		
	New Zealand	21.07.2020	766364	Published 31.07.2020	
	Mexico	23.07.2020	MX/a/2020/007799	Published	
				16.10.2020	
	Canada	27.07.2020	<u>3089762</u>		
	Japan	28.07.2020	2020541383		
	European Patent Office	31.08.2020	<u>2019743925</u>	Published 09.12.2020	
	Russian Federation	31.08.2020	2020128584	Published 28.02.2022	
	China	16.09.2020	201980019860.0	Published 10.11.2020	
	Brazil	20.10.2020	112020015328		
	Republic of Korea		1020207025018	Published 12.10.2020	

TPO No.	68				
Appl. No.	WO2019148136				
Link to Appl.	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2019148136				
Applicants	MERCK PATENT G	MBH			
	VERTEX PHARMAC	CEUTICALS INCO	DRPORATED		
Priority Data	62/623,312 29.01.20				
Details			atent GMBH & Vertex Pha		
			midine compounds used for		
			d in which 4 prior art docum	ents were used to	
	challenge both novelty	y and/or only inven	tive step.		
Date of	29/5/2020				
Filing of					
TPO					
National Phase	Office	Entry Date	National Number	National Status	
	Singapore	17.07.2020	11202006832Y		
	Israel	19.07.2020	276147		
	Mexico	23.07.2020	MX/a/2020/007797	Published	
				16.10.2020	
	New Zealand	24.07.2020	766368	Published	
				31.07.2020	
	Canada	27.07.2020	<u>3089769</u>		
	Japan	28.07.2020	2020541375		
	European Patent	31.08.2020	<u>2019743802</u>	Published	
	Office			09.12.2020	
	Russian	31.08.2020	2020128586	Published	
	Federation			03.03.2022	
	China	16.09.2020	201980019854.5	Published	
				30.10.2020	
	Brazil	20.10.2020	112020015396		
	Republic of Korea			Published	
			<u>1020207025021</u>	07.10.2020	

TPO No.	69
Appl. No.	WO2019150300
Link to Appl.	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2019150300
Applicants	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED
Priority Data	62/625,410 02.02.2018 US
	62/730,583 13.09.2018 US
	62/740,007 02.10.2018 US
Details	HIV: Applicant GSK filed an application claiming crystalline forms of GSK2838232,
	an HIV maturation inhibitor. TPO was filed in which 7 prior art documents were used
	to challenge novelty, and/or inventive step.
Date of	02/06/2020
Filing of	
ТРО	
National	No National Phase Data
Phase	

TPO No.	70				
Appl. No.	WO2019154634				
Link to	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2019154634				
Appl.		-			
Applicants	SANDOZ AG				
Priority	18156094.7 09.02.2	018 EP			
Data	18194234.3 13.09.2				
Details			tion claiming crystalline for art documents were used to c		
Date of Filing of TPO	09/06/2020				
National Phase	Office	Entry Date	National Number	National Status	
	Canada	15.07.2020	<u>3088596</u>		
	China	07.08.2020	201980012323.3	Published 22.09.2020	
	Mexico	07.08.2020	MX/a/2020/008360	Published 16.10.2020	
	Published 30.10.2020				
	Organization European Patent Office	09.09.2020	2019701843	Published 16.12.2020 Granted 16.03.2022	
	Brazil	20.10.2020	112020015217		

TPO No.	71				
Appl. No.	WO2019161017				
Link to	https://patentscope.wi	po.int/search/en/de	tail.jsf?docId=WO2019161	<u>017</u>	
Appl.					
Applicants	GILEAD SCIENCES	, INC			
Priority Data	62/630,955 15.02.20				
Details	pyridine compounds,	derivatives of GS (ication claiming capsid inhi CA-1 and GS-6207, for treat were used to challenge both	tment of HIV. TPO	
Date of Filing of TPO	15/06/2020				
National Phase	Office	Entry Date	National Number	National Status	
	Canada	23.07.2020	<u>3089590</u>		
	China	14.08.2020	201980013698.1	Published 27.10.2020	
	Japan	14.08.2020	2020543506		
	Republic of Korea	10.09.2020	1020207026148	Published 19.10.2020	
	European Patent Office	15.09.2020	2019707631	Published 23.12.2020	

TPO No.	72					
Appl. No.	WO2019165122					
Link to	https://patentscope.w	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2019165122				
Appl.						
Applicants			AS REPRESENTED BY T			
	SECRETARY, DEPA	ARTMENT OF HEA	ALTH AND HUMAN SER	VICES		
Priority	62/633,517 21.02.20					
Data	62/775,754 05.12.20					
Details	HIV: Applicant NIH US government, Department of Health and Human Services, filed an application for a biologic drug (monoclonal antibodies) that claimed antibodies and antigen binding fragments that specifically bind to HIV-1 envelope and neutralizes the virus. TPO was filed in which 8 prior art documents were used to challenge both novelty and/or inventive step.					
Date of	22/06/2020					
Filing of						
ТРО						
National Phase	Office	Entry Date	National Number	National Status		
	Canada	17.08.2020	<u>3091437</u>			
	United States of America	21.08.2020	16971826	Published 18.03.2021		
	European Patent	21.09.2020	<u>2019709330</u>	Published		
	Office			30.12.2020		
	Russian	21.09.2020	2020130795	Published		
	Federation			21.03.2022		
	China	14.10.2020	201980025868.8	Published		
				20.11.2020		

TPO No.	73				
Appl. No.	WO2019171285				
Link to	https://patentscope.wi	po.int/search/en/de	tail.jsf?docId=WO2019171	285	
Appl.					
Applicants	GLAXOSMITHKLIN	NE INTELLECTUA	L PROPERTY (NO.2) LI	MITED	
	VIIV HEALTHCARI	E COMPANY			
Priority	62/639,667 07.03.20	018 US			
Data					
Details			y and ViiV Healthcare Co.		
			fatty acid chain prodrugs o		
			or HIV. TPO was filed in	n which 7 prior art	
	documents were used	to challenge novel	y and/or inventive step.		
Date of	07/07/2020				
Filing of					
TPO					
National	Office	Entry Date	National Number	National	
Phase		Entry Date		Status	
	United States of	26.08.2020	16975732	Published	
	America			31.12.2020	
	Japan	04.09.2020	2020546446		
	European Patent	07.10.2020	2019715562	Published	
	Office			13.01.2021	

TPO No.	74			
Appl. No.	WO2019183133			
Link to	https://patentscope.wi	ipo.int/search/en/de	tail.jsf?docId=WO2019183	<u>133</u>
Appl.				
Applicants	EMORY UNIVERSI	TY		
Priority	62/644,982 19.03.20	018 US		
Data				
Details	HIV: Applicant Emory University filed an application claiming modified forms of a known drug maraviroc, as pan-tropic (CXCR4 and CCR5) entry inhibitors. TPO was filed in which 5 prior art documents were used primarily to challenge inventive step and some to challenge both novelty and inventive step.			
Date of Filing of TPO	20/07/2020			
National Phase	Office	Entry Date	National Number	National Status
	United States of	21.09.2020	17040026	Published
	America			21.01.2021
	European Patent	19.10.2020	<u>2019770481</u>	Published
	Office			27.01.2021

TPO No.	75				
Appl. No.	WO2019189331				
Link to	https://patentscope.wi	po.int/search/en/de	tail.jsf?docId=WO2019189	331	
Appl.					
Applicants	THE KITASATO INS	STITUTE			
	NATIONAL UNIVER	RSITY CORPORA	TION HOKKAIDO UNIVI	ERSITY	
Priority	2018-061397 28.03.	2018 JP			
Data					
Details	TB: Applicant Kitasato Institute and National University Corporation Hokkaido				
	University filed an application claiming a cyclic heptapeptide drug K95-5901-01 though				
	culture of Actinoplane bacteria for the treatment of TB. TPO was filed in which 3 prior art				
	documents were used to challenge both novelty and/or only inventive step.				
Date of	28/07/2020				
Filing of					
ТРО					
National	Office	Entry Date	National Number	National	
Phase	Onice	Entry Date		Status	
	Japan	18.09.2020	2020509177	Japan	

TPO No.	76
Appl. No.	WO2019190354
Link to	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2019190354
Appl.	
Applicants	MT-MEDICALS LIMITED LIABILITY COMPANY
Priority	2018111277 29.03.2018 RU
Data	
Details	TB: Applicant MT Medicals Limited Liability Co., filed an application claiming substituted phenyl formamidine compounds having anti-mycobacterial activity, used for the treatment of TB. TPO was filed in which 2 prior art documents were used to challenge both novelty and/or inventive step.
Date of Filing of TPO	29/07/2020
National Phase	No National Phase Data

TPO No.	77				
Appl. No.	WO2019199756				
Link to	https://patentscope.wi	ipo.int/search/en/de	tail.jsf?docId=WO20191997	<u>756</u>	
Appl.					
Applicants	BOARD OF REGEN	TS OF THE UNIV	ERSITY OF NEBRASKA		
Priority	62/654,723 09.04.20	018 US			
Data					
Details Date of	HIV: Applicant Board of Regent of University of Nebraska filed an application claiming prodrugs of known non-nucleoside reverse transcriptase inhibitors (NNRTI) and its pharmaceutical compositions for extended relief profile for the treatment of HIV. TPO was filed in which 7 prior art documents were used for challenging inventive step. 10/08/2020				
Filing of TPO					
National Phase	Office	Entry Date	National Number	National Status	
	United States of America	16.09.2020	16981325	Published 22.04.2021	
	European Patent Office	09.11.2020	<u>2019785830</u>	Published 17.02.2021	
	Canada	07.10.2021	<u>3132832</u>	Published 11.11.2021	

TPO No.	78				
Appl. No.	WO2019200005				
Link to	https://patentscope.wi	po.int/search/en/de	tail.jsf?docId=WO2019200	<u>005</u>	
Appl.					
Applicants	ATEA PHARMACEU	JTICALS, INC			
Priority	62/655,697 10.04.20	18 US			
Data	62/679,573 01.06.20				
Details	nucleotide compound	(AT-527) to treat c cuments were used	iled an application claiming sirrhotic patients with Hepat primarily to challenge inver- ntive step.	itis C. TPO was filed	
Date of Filing of TPO	10/08/2020				
National Phase	Office	Entry Date	National Number	National Status	
	Japan	07.10.2020	2020555058		
	Republic of Korea	05.11.2020	<u>1020207031947</u>	Published 16.12.2020	
	European Patent Office	10.11.2020	<u>2019785575</u>	Published 17.02.2021	
	Russian Federation	10.11.2020	2020134221	Published 11.05.2022	
	China	01.12.2020	201980037059.9	Published 09.02.2021	

TPO No.	79				
Appl. No.	WO2019198024				
Link to	https://patentscope.wi	po.int/search/en/de	tail.jsf?docId=WO2019198	<u>8024</u>	
Appl.					
Applicants	VIIV HEALTHCARE	E UK (NO.5) LIMI	TED		
Priority	62/655,881 11.04.20	018 US			
Data	62/689,995 26.06.20				
	62/732,741 18.09.20				
	62/750,336 25.10.20				
Details			d an application claiming 4		
			ceutical compositions there		
			2 prior art documents were	e used to challenge	
	both novelty and/or or	nly inventive step.			
Date of	11/08/2020				
Filing of					
TPO					
National	Office	Entry Date	National Number	National	
Phase	onice	Entry Date		Status	
	United States of	28.09.2020	17042413	Published	
	America			28.01.2021	
	Japan 08.10.2020 2020555190				
	European Patent	11.11.2020	2019725404	Published	
	Office			17.02.2021	

TPO No.	80				
Appl. No.	WO2019210282				
Link to	https://patentscope.wi	po.int/search/en/de	tail.jsf?docId=WO20192102	282	
Appl.					
Applicants	CHILDREN'S NATIO		CENTER		
Priority	62/663,239 26.04.20	018 US			
Data					
Details	TB: Applicant Children's National Medical Centre, filed an application claiming a biologic drug - immunogenic combinations comprising mycobacterial polynucleotides and polypeptides, to fragments or variants thereof, and to cells comprising such combined antigens, where the antigens are from a Mycobacterium species, including TB. TPO was filed in which 5 prior art documents were used to challenge both novelty and/or inventive step.				
Date of	21/08/2020				
Filing of TPO					
National Phase	Office	Entry Date	National Number	National Status	
	Canada	21.10.2020	<u>3098015</u>		
	Japan	23.10.2020	2020559424		
	Mexico	23.10.2020	MX/a/2020/011298	Published 25.02.2021	
	United States of America	26.10.2020	17050829	Published 23.09.2021	
	Australia	10.11.2020	2019260805		
	European Patent Office	26.11.2020	<u>2019793777</u>	Published 03.03.2021	
	Republic of Korea		<u>1020207033884</u>	Published 02.02.2021	

TPO No.	81					
Appl. No.	WO2019207460					
Link to	https://patentscope.wi	po.int/search/en/de	tail.jsf?docId=WO201920	<u>7460</u>		
Appl.						
Applicants	VIIV HEALTHCARE	E UK (NO.5) LIMI	TED			
Priority	62/661,780 24.04.20	018 US				
Data	62/775,527 05.12.20					
Details			ation claiming prodrugs of			
			tical compositions. TPO w	vas filed in which 4		
	prior art documents w	rere used to challen	ge inventive step.			
Date of	24/08/2020					
Filing of						
ТРО						
National	Office	Entry Data	National Number	National		
Phase	Office Entry Date National Number Status					
	United States of	08.10.2020	17046020	Published		
America 11.1						
	Japan 22.10.2020 2020558974					
	European Patent	24.11.2020	2019727500	Published		
	Office			03.03.2021		

TPO No.	82
Appl. No.	WO2019210160
Link to	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2019210160
Appl.	
Applicants	BRANDEIS UNIVERSITY
	UNIVERSITY OF HOUSTON SYSTEM
Priority	62/662,922 26.04.2018 US
Data	
Details	TB: Brandeis University and University of Houston System filed an application claiming urea and benzoxazole series of compounds for the treatment of TB. TPO was filed in which 3 prior art documents were used to challenge both novelty and/or inventive step.
Date of	26/08/2020
Filing of	
ТРО	
National	No National Phase Data
Phase	

TPO No.	83
Appl. No.	WO2019210144
Link to	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2019210144
Appl.	
Applicants	VANDERBILT UNIVERSITY
	THE JOHNS HOPKINS UNIVERSITY
Priority	62/663,853 27.04.2018 US
Data	02/003,055 27.04.2010 05
Details	HCV: Vanderbilt University and John Hopkins University filed an application for a biologic drug relating to human antibodies binding to Hepatitis C virus, and methods of use thereof. TPO was filed in which 4 prior art documents were used to challenge both novelty and/or inventive step.
Date of	27/08/2020
Filing of	
ТРО	
National	No National Phase Data
Phase	

TPO No.	84					
Appl. No.	WO2019209667					
Link to	https://patentscope.wi	po.int/search/en/de	tail.jsf?docId=WO20192096	<u>667</u>		
Appl.						
Applicants	MERCK SHARP & D	OHME CORP				
	YU, Tao					
	APGAR, James, M.					
	WHITEHEAD, Alan					
	ZHANG, Yonglian HU, Zhiyong					
	SHURTLEFF, Valerie	W				
	MCCAULEY, John, A					
	RAHEEM, Izzat, T.	1.				
Priority	62/663,377 27.04.20	18 US				
Data	62/664,527 30.04.20					
Details			claims tricyclic heterocyclic	compounds for the		
			prior art documents were us			
	novelty and/or inventi	ve step.		-		
Date of	27/08/2020					
Filing of						
TPO						
National	Office	Entry Date	National Number	National		
Phase		-		Status		
	United States of	19.10.2020	17048811	Published		
	America		2101100	22.04.2021		
	Canada	21.10.2020	<u>3101180</u>			
	Japan	23.10.2020	2020559525			
	China	26.10.2020	201980028504.5	Published		
				15.12.2020		
	Mexico	26.10.2020	MX/a/2020/011317	Published		
				08.12.2020		
	Brazil	03.11.2020	112020021768			
	Republic of Korea	24.11.2020	<u>1020207033726</u>	Published		
				13.01.2021		
	European Patent	27.11.2020	<u>2019793407</u>	Published		
	Office	07.11.0000	0000100/70	03.03.2021		
	Russian	27.11.2020	2020138670	Published		
	Federation			27.05.2022		

TPO No.	85				
Appl. No.	WO2019213295				
Link to	https://patentscope.wi	po.int/search/en/de	tail.jsf?docId=WO20192132	<u>195</u>	
Appl.		-	-		
Applicants	RETROVIROX, INC				
Priority	62/667,341 04.05.20	018 US			
Data					
Details			cation claiming inhibitors of		
			complex Class I (MHC-I) an		
			PO was filed in which 5 prior	art documents were	
	used for challenging i	nventive step.			
Date of	01/09/2020				
Filing of					
ТРО					
National Phase	Office	Entry Date	National Number	National	
rnase	Canada	04.11.2020	2000282	Status	
			<u>3099382</u>	TT7' (1 1	
	Israel	04.11.2020	<u>278489</u>	Withdrawn	
	т	04 11 2020	2021510270	09.05.2022	
	Japan	04.11.2020	2021510270	Non Entry	
	Mexico	04 11 2020	N32/ /2020/011000	05.04.2021	
		04.11.2020	MX/a/2020/011800		
	Singapore	04.11.2020	11202010971X		
	Brazil	10.11.2020	112020022437	Non Entry	
				11.05.2021	
	European Patent	04.12.2020	<u>2019795781</u>	Withdrawn	
	Office			05.12.2020	

TPO No.	86				
Appl. No.	WO2019217369				
Link to	https://patentscope.wi	ipo.int/search/en/de	tail.jsf?docId=WO20192173	<u>369</u>	
Appl.					
Applicants	REGULUS THERAP	EUTICS INC			
Priority	62/668,467 08.05.20	018 US			
Data					
Details			Inc., filed an application claim		
			atment of Hepatitis C. TPO		
	prior art documents w	vere used for challen	nging novelty and/or invent	ive step.	
Date of	08/09/2020				
Filing of					
TPO					
National	Office	Entry Date	National Number	National	
Phase				Status	
	United States of	02.11.2020	17052333	Published	
	America			10.06.2021	
	Japan	04.11.2020	2020561923		
	Canada	06.11.2020	<u>3099698</u>		
	European Patent	08.12.2020	2019725507		
	Office				
	China	29.12.2020	201980044398.X	Published	
				23.02.2021	

TPO No.	87					
Appl. No.	WO2019222104					
Link to	https://patentscope.wi	po.int/search/en/de	tail.jsf?docId=WO20192221	<u>04</u>		
Appl.						
Applicants	MACROGENICS, IN					
Dui suites	DUKE UNIVERSITY					
Priority Data	62/673,462 18.05.20	018 US				
Details Date of	claiming gp41 -Bindin (including DART® di (including TRIDENT	HIV: Applicant Microgenics, Inc. and Duke University, filed an application for biologics, claiming gp41 -Binding Molecules that are multispecific (including bispecific diabodies) (including DART® diabodies), BiTE®s, bispecific antibodies, trivalent binding molecules (including TRIDENT TM molecules), etc. TPO was filed in which 6 prior art documents were used for challenging both novelty and/or only inventive step.				
Filing of TPO						
National Phase	Office	Entry Date	National Number	National Status		
	Canada	13.11.2020	<u>3100398</u>			
	Mexico	13.11.2020	MX/a/2020/012309	Published 13.07.2021		
	Singapore	16.11.2020	11202011355Q			
	United States of America	16.11.2020	17055805	Published 12.08.2021		
	Japan	17.11.2020	2020564553			
	Australia	18.11.2020	2019269383			
	Israel	18.11.2020	278832			
	Brazil	01.12.2020	112020023432			
	European Patent Office	18.12.2020	<u>2019802868</u>	Published 24.03.2021		
	China	18.01.2021	201980048041.9	Published 19.03.2021		

TPO No.	88					
Appl. No.	WO2019230857					
Link to	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2019230857					
Appl.						
Applicants	SHIONOGI & CO., L					
Priority	2018-104160 31.05.2	2018 JP				
Data						
Details			ed an application claiming			
			tory activity, and pharmace			
			art documents were used to	challenge inventive		
	step and both novelty	and/or inventive ste	ep.			
Date of	30/09/2020					
Filing of						
TPO						
National Phase	Office	Entry Date	National Number	National Status		
	Japan	15.10.2020	2020522576			
	Mexico	13.11.2020	MX/a/2020/012185	Published		
				25.02.2021		
	Peru	16.11.2020	001864-2020	Published		
				07.12.2020		
	Singapore	17.11.2020	11202011386Q			
	United States of	24.11.2020	17058260	Published		
	America			27.05.2021		
	Canada	27.11.2020	<u>3101950</u>			
	Thailand	27.11.2020	2001006794			
	Israel	29.11.2020	279050			
	Brazil	08.12.2020	112020024098			
	Australia	14.12.2020	2019277547			
	New Zealand	14.12.2020	771022	Published		
		1112.2020	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	18.12.2020		
	Costa Rica	22.12.2020	CR2020-000645	Published		
				05.02.2021		
	Eurasian Patent	25.12.2020	202092923	Published		
	Organization			30.04.2021		
	Ukraine	28.12.2020	<u>a202008294</u>	Published		
				24.03.2021		
	European Patent	11.01.2021	2019812190	Published		
	Office			14.04.2021		
	China	28.01.2021	201980050400.4	Published		
				19.03.2021		
	Republic of Korea		<u>1020207037581</u>	Published		
				17.02.2021		

TPO No.	89					
Appl. No.	WO2019230858					
Link to	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2019230858					
Appl.						
Applicants	SHIONOGI & CO., L					
Priority	2018-104156 31.05.	2018 JP				
Data						
Details	with some minor d application, WO'857 compositions thereof. inventive step and bot	ifference in the N , having HIV into TPO was filed in w	cation claiming polycyclic p Markush structure, claimed egrase inhibitory activity, hich 2 prior art documents we ntive step.	I in their previous and pharmaceutical		
Date of Filing of TPO	30/09/2020					
National Phase	Office	Entry Date	National Number	National Status		
	Japan	15.10.2020	2020522577			
	Mexico	13.11.2020	MX/a/2020/012176	Published 25.02.2021		
	Peru	16.11.2020	001863-2020	Published 11.03.2021		
	Singapore	17.11.2020	11202011382P			
	United States of America	24.11.2020	17058251	Published 29.04.2021		
	Thailand	27.11.2020	2001006793			
	Israel	29.11.2020	279051			
	Canada	30.11.2020	3102063			
	Brazil	08.12.2020	112020024077			
	Australia	14.12.2020	2019277548			
	New Zealand	14.12.2020	771017	Published 18.12.2020		
	Costa Rica	22.12.2020	CR2020-000644	Published 05.02.2021		
	Eurasian Patent Organization	25.12.2020	<u>202092921</u>	Published 30.04.2021		
	Ukraine	28.12.2020	<u>a202008303</u>	Published 24.03.2021		
	European Patent Office	11.01.2021	<u>2019810498</u>	Published 14.04.2021		
	China	28.01.2021	201980050399.5	Published 16.03.2021		
	Republic of Korea		<u>1020207037580</u>	Published 10.02.2021		

TPO No.	90				
Appl. No.	WO2019236396				
Link to	https://patentscope.wi	ipo.int/search/en/de	tail.jsf?docId=WO2019236	<u>5396</u>	
Appl.					
Applicants	MERCK SHARP & I	DOHME CORP et a	ıl.,		
Priority	62/680,794 05.06.20)18 US			
Data					
Details	HIV: Applicant Merck Sharpe & Dohme Corporation filed an application claiming tricyclic heterocyclic compounds and methods of use for treating HIV. TPO was filed in which 4 prior art documents were used for challenging novelty and/or inventive step, or only inventive step.				
Date of	05/10/2020				
Filing of					
TPO					
National Phase	Office	Entry Date	National Number	National Status	
	United States of	23.11.2020	17057875	Published	
	America			07.10.2021	
	European Patent	11.01.2021	2019814615	Published	
	Office			14.04.2021	

TPO No.	91				
Appl. No.	WO2019241483				
Link to	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2019241483				
Appl.					
Applicants	THE SCRIPPS RESE		E		
Priority	62/684,229 13.06.20	018 US			
Data			- 1 T ' 01 1		
Details Date of Filing of	HIV, HCV, TB: Applicant The Scripps Research Institute., filed an application claiming biological agents for treatment of HIV, HCV & TB. The vaccines compositions of fusion proteins containing a polypeptide immunogen displayed on the surface of a self-assembling nanoparticle and a locking domain that is embedded inside the nanoparticle and linked to subunit of the self-assembling nanoparticle wherein the locking domain forms a dimer with other similar particles. TPO was filed in which 5 prior art documents were used to challenge inventive step. 13/10/2020				
TPO					
National Phase	Office	Entry Date	National Number	National Status	
	Australia	09.12.2020	<u>2019285048</u>		
	Singapore	09.12.2020	11202012313P		
	Canada	10.12.2020	<u>3103460</u>		
	Israel	10.12.2020	279351		
	Japan	10.12.2020	2020568685		
	Eurasian Patent Organization	18.12.2020	202092808	Published 31.08.2021	
	European Patent Office	13.01.2021	<u>2019818872</u>	Published 21.04.2021	
	Republic of Korea	13.01.2021	<u>1020217001153</u>	Published 26.02.2021	
	Mexico	18.01.2021	MX/a/2021/000721		
	China	20.01.2021	201980048606.3	Published 09.03.2021	

TPO No.	92						
Appl. No.	WO2019241592						
Link to	https://patentscope.wi	ipo.int/search/en/de	tail.jsf?docId=WO2019241	<u>592</u>			
Appl.							
Applicants	NANTBIO, INC						
Priority	62/684,938 14.06.20	018 US					
Data							
Details	HIV: Applicant Nantbio, Inc., filed an application for biologics, claiming various chimeric constructs comprising a TNF family member ligand and a TNF family member receptor, nucleic acids encoding the same, mammalian cells transfected with such nucleic acids and methods of treating cancer and viral infections thereof. TPO was filed in which at least 4 prior art documents were used to challenge inventive step.						
Date of Filing of TPO	14/10/2020						
National Phase	Office Entry Date National Number National Status						
	Canada	26.10.2020	<u>3098498</u>				
	China 14.12.2020 201980039817.0 Published 26.03.2021 201980039817.0 201980039817.0 201980039817.0						
	European Patent Office	European Patent 14.01.2021 2019819527 Published					
				Withdrawn 08.07.2021			

TPO No.	93				
Appl. No.	WO2019239382				
Link to	https://patentscope.wi	po.int/search/en/de	tail.jsf?docId=WO2019239	<u>382</u>	
Appl.					
Applicants	CADILA HEALTHC	ARE LIMITED			
Priority	201821022468 15.0	6.2018 IN			
Data	201921007053 22.02	2.2019 IN			
Details	TB: Applicant Cadi	la Healthcare Lt	d., filed an application	claiming condensed	
	azaheteroaryl compou	nds having antiba	cterial activity against tuber	culosis bacteria, and	
	pharmaceutical compo	ositions thereof. TF	O was filed in which 3 prior	r art documents were	
	used to challenge inve	entive step and both	n novelty and/or inventive st	ep.	
Date of	15/10/2020				
Filing of					
ТРО					
National	Office	Entry Date	National Number	National	
Phase	Once	Entry Date		Status	
	United States of	15.12.2020	17252494	Published	
	America			23.09.2021	
	Republic of Korea	14.01.2021	<u>1020217001229</u>	Published	
				24.02.2021	
	Russian	15.01.2021	2020141073	Withdrawn	
	Federation			01.02.2022	
	China	25.01.2021	201980049637.0	Published	
				23.03.2021	

TPO No.	94
Appl. No.	WO2019243971
Link to	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2019243971
Appl.	
Applicants	FOUNDATION FOR NEGLECTED DISEASE RESEARCH
Priority	201741045313 17.06.2018 IN
Data	
Details	TB: Foundation for Neglected Disease Research, filed an application claiming quinoline compounds and their use as a pharmaceutical for the treatment of bacterial diseases, including diseases caused by pathogenic mycobacteria such as Mycobacterium tuberculosis and other mycobacterium infections. TPO was filed in which at least 4 prior art documents were used to challenge inventive step and both novelty and inventive step.
Date of	19/10/2020
Filing of	
ТРО	
National	No National Phase Data
Phase	

TPO No.	95				
Appl. No.	WO2019243315				
Link to	https://patentscope.wi	ipo.int/search/en/de	tail.jsf?docId=WO2019243	<u>315</u>	
Appl.					
Applicants	HEPAREGENIX GM	1BH			
Priority	18179035.3 21.06.2	018 EP			
Data					
Details Date of	HCV: Heparegenix GMBH, filed an application that claims tricyclic protein kinase inhibitors which selectively inhibit mitogen-activated protein kinase kinase 4 (MKK4) over protein kinases JNK1 and MKK7. TPO was filed in which 4 prior art documents were used to challenge inventive step. 21/10/2020				
Filing of TPO					
National Phase	Office	Entry Date	National Number	National Status	
	United States of	18.12.2020	17254071	Published	
	America			26.08.2021	
	European Patent	21.01.2021	2019730377	Published	
	Office			28.04.2021	

TPO No.	96				
Appl. No.	WO2020016243				
Link to	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2020016243				
Appl.					
Applicants	HEPAREGENIX GM				
Priority	18183712.1 16.07.20	D18 EP			
Data			1 1 1. 1.	• • • • • • • •	
Details	which selectively inhi	bit mitogen-activat	d an application bicyclic prot ed protein kinase kinase 4 (N	MKK4) over protein	
	challenging novelty an		d in which 7 prior art docur or only inventive step.	nents were used for	
Date of Filing of TPO	09/11/2020				
National Phase	Office	Entry Date	National Number	National Status	
	Australia	16.12.2020	2019303986		
	New Zealand	16.12.2020	771220	Published	
				18.12.2020	
	Canada	17.12.2020	<u>3104246</u>	Published 23.01.2020	
	Mexico	17.12.2020	MX/a/2020/014102	Published 17.06.2021	
	Israel	21.12.2020	<u>279641</u>		
	Brazil	29.12.2020	112020026003		
	Singapore	08.01.2021	11202012732U		
	Japan	12.01.2021	2021501023		
	United States of America	14.01.2021	17260519		
	China	15.01.2021	201980047654.0	Published 26.02.2021	
	European Patent Office	16.02.2021	<u>2019742336</u>	Published 26.05.2021	
	Russian Federation	16.02.2021	2020142047		
	Republic of Korea		1020207036713	Published 31.03.2021	

TPO No.	97						
Appl. No.	WO2020018352						
Link to	https://patentscope.wi	po.int/search/en/de	tail.jsf?docId=WO2020018	3352			
Appl.							
Applicants	MERCK SHARP & D	OHME CORP					
	HAZUDA, Daria Jean	1					
	LAI, Ming-Tain						
Priority	62/699,047 17.07.20	18 US					
Data							
Details			e Corporation, filed an app				
			f anti -viral treatment resis				
			th HIV, comprising administ				
			onal HIV antiviral drugs, e				
			r art documents were used,	6 of which were used			
	to challenge inventive step and one for novelty.						
Date of	17/11/2020						
Filing of							
ТРО							
National	Office	Entry Date	National Number	National			
Phase	Onice	Office Entry Date National Number Status					
	United States of	07.01.2021	17258649	Published			
	America			16.09.2021			
	European Patent	17.02.2021	<u>2019837129</u>	Published			
	Office			26.05.2021			

TPO No.	98					
Appl. No.	WO2020018399					
Link to	https://patentscope.wi	po.int/search/en/de	tail.jsf?docId=WO2020018	399		
Appl.		-				
Applicants	MERCK SHARP & I	DOHME CORP				
	RUIZ, Manuel De Lei	ra				
	RAHEEM, Izzat					
	RUDD, Michael, T.					
Priority	62/700,691 19.07.20	018 US				
Data						
Details	· •		ation, filed an application f	* *		
			inhibition of HIV reverse tr			
	filed in which 2 prior art documents were used to challenge inventive step.					
Date of	19/11/2020					
Filing of						
ТРО						
National	Office	Entry Data	National Number	National		
Phase	Office Entry Date National Number Status					
	United States of	15.01.2021	17260619	Published		
	America			26.08.2021		
	European Patent	19.02.2021	<u>2019838497</u>	Published		
	Office			26.05.2021		

TPO No.	99
Appl. No.	WO2020188405
Link to	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2020188405
Appl.	
Applicants	FOUNDATION FOR NEGLECTED DISEASE RESEARCH
Priority	201941010942 20.03.2019 IN
Data	
Details	TB: Applicant, Foundation for Neglected Diseases Research, filed an application claiming benzimidazole derivatives as DprE1 inhibitors for the treatment of TB. TPO was filed in which 3 prior art documents were used to challenge inventive step and both novelty and/or inventive step.
Date of Filing of TPO	23/11/2020
National Phase	No National Phase Data

TPO No.	100				
Appl. No.	WO2020021468				
Link to	https://patentscope.wi	po.int/search/en/de	tail.jsf?docId=WO20200214	<u>468</u>	
Appl.					
Applicants	CADILA HEALTHC	ARE LIMITED			
Priority	201821027940 25.07	7.2018 IN			
Data					
Details	TB: Cadila Healthcare	e Limited, filed an	application claiming subst	ituted oxazolidinone	
	compounds having	antibacterial activ	ity against mycobacteriun	n tuberculosis, and	
	pharmaceutical compo	ositions thereof. TP	O was filed in which 2 prior	r art documents were	
	used to challenge both	novelty and inven	tive step.		
Date of	25/11/2020				
Filing of					
ТРО					
National	Office	Entry Date	National Number	National	
Phase	Onice	Entry Date		Status	
	United States of	22.01.2021	17262278	Published	
	America			02.09.2021	
	China	25.01.2021	201980049561.1	Published	
				23.03.2021	
	Russian	25.02.2021	2021104515		
	Federation				
	Republic of Korea		<u>1020217005725</u>	Published	
				07.04.2021	

TPO No.	101					
Appl. No.	WO2020023827					
Link to	https://patentscope.wi	po.int/search/en/de	tail.jsf?docId=WO2020023	827		
Appl.						
Applicants	INTERNATIONAL A	AIDS VACCINE IN	NITIATIVE			
	THE SCRIPPS RESE	ARCH INSTITUT	E			
Priority	62/711,312 27.07.20	018 US				
Data	62/816,721 11.03.20)19 US				
Details			tive and The Scripps Rese			
			al agents for the treatment			
		e	hanced engineered anti-HIV			
			antibody. TPO was filed			
	documents were used in 5 notes to challenge novelty and/or inventive step.					
Date of	27/11/2020					
Filing of						
ТРО						
National	Office	Entry Date	National Number	National		
Phase	Office Entry Date National Number Status					
	United States of	26.01.2021	17263490	Published		
	America			23.09.2021		
	European Patent	01.03.2021	<u>2019840290</u>	Published		
	Office			09.06.2021		

TPO No.	102			
Appl. No.	WO2020028272			
Link to	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2020028272			
Appl.				
Applicants	GILEAD SCIENCES			
Priority	62/711,768 30.07.20	018 US		
Data				
Details	HIV: Gilead Sciences Inc., filed an application that claims prodrugs of previously disclosed protease inhibitors - atazanavir analogues for the treatment of HIV (disclosed in application in which TPO#16 was filed). TPO was filed in which 5 prior art document were used, to challenge novelty and inventive step.			
Date of Filing of TPO	30/11/2020			
National Phase	Office	Entry Date	National Number	National Status
	Canada	08.12.2020	3103157	Published
				06.02.2020
	Australia	05.01.2021	<u>2019314282</u>	
	Japan	28.01.2021	2021504759	
	China	29.01.2021	201980050838.2	Published 19.03.2021
	European Patent Office	01.03.2021	2019752359	Published 09.06.2021
	Republic of Korea		<u>1020217005603</u>	Published 07.04.2021

TPO No.	103			
Appl. No.	WO2020033366			
Link to	https://patentscope.wi	po.int/search/en/de	tail.jsf?docId=WO20200333	<u>366</u>
Appl.				
Applicants	NANTBIO, INC.			
Priority	62/716,292 08.08.20	018 US		
Data				
Details Date of Filing of	TB biologic: Applicant Nantbio Inc., filed an application for biological agents for the treatment of tuberculosis, by using genetically modified T cells that express at least a portion of a CD 1b restricted T cell receptor in immunotherapy. TPO was filed in which 6 prior art documents were used in 3 notes for challenging inventive step.			
TPO				
National Phase	Office	Entry Date	National Number	National Status
	China	08.02.2021	201980053567.6	Published 14.05.2021
	European Patent Office	09.03.2021	<u>2019847254</u>	Published 16.06.2021

TPO No.	104				
Appl. No.	WO2020031112				
Link to	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2020031112				
Appl.					
Applicants	VIIV HEALTHCARE	E UK (NO.5) LIMI	TED		
Priority	62/716,488 09.08.20	018 US			
Data	62/732,758 18.09.20				
Details			d., filed an application for c		
			and methods for using thes		
		O was filed in wh	ich 1 prior art document w	as used to challenge	
	inventive step.				
Date of	09/12/2020				
Filing of					
TPO					
National	Office	Entry Date	National Number	National	
Phase		•		Status	
	United States of	26.01.2021	17263272	Published	
	America			15.07.2021	
	Canada	03.02.2021	<u>3108633</u>	Published	
				13.02.2020	
	Japan	08.02.2021	2021506634		
	Brazil	09.02.2021	112021001617		
	European Patent	09.03.2021	2019779123	Published	
	Office			16.06.2021	
	China	09.04.2021	201980066843.2	Published	
				11.05.2021	

TPO No.	105			
Appl. No.	WO2020029903			
Link to	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2020029903			
Appl.				
Applicants	SUNSHINE LAKE P	HARMA CO., LTI).	
Priority	201810908122.9 10.08.2018 CN			
Data				
Details	HCV: Sunshine Lake Pharma Co. Ltd., filed an application claiming N-(6-(3-(tert-butyl)-			
	5-(2,4-dioxo-3,4-dihydropyrimidine-1(2H)-yl)-6-fluoro-2-methoxyphenyl)naphthalene-			
	2-yl) methanesulfonamide salt and preparation method thereof – an analogue of dasabuvir;			
	also relates to its composition and use. TPO was filed in which 3 prior art documents were			
	used to challenge inventive step.			
Date of	10/12/2020			
Filing of				
ТРО				
National	Office	Entry Date	National Number	National
Phase	Onice	Entry Date		Status
	China	12.01.2021	201980046596.X	Published
				26.02.2021

TPO No.	106					
Appl. No.	WO2020029912					
Link to	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2020029912					
Appl.						
Applicants	SUNSHINE LAKE P	HARMA CO., LTI).			
Priority	201810908122.9 10.	08.2018 CN				
Data						
Details	HCV: Applicant, Sunshine Lake Pharma Co. Ltd., filed an application claiming					
	hexahydrate of th	ne disodium sa	alt of N-(6-(3-(tert-butyl)-5-(2,4-dioxo-3),4-		
	Dihydropyrimidine-1(2H)-yl)-6-fluoro-2-methoxyphenyl)naphthalene-2-					
	yl)methanesulfonamide – an analogue of dasabuvir. The application claimed the disodium					
	salt crystal form C and its preparation method, composition and use for treatment of HCV.					
	TPO was filed in which 3 prior art documents were used to challenge inventive step.					
Date of	10/12/2020					
Filing of						
TPO						
National	Office	Entwy Data	National Number	National		
Phase	Office Entry Date National Number Status					
	China	12.01.2021	201980046587.0	Published		
				16.03.2021		

TPO No.	107				
Appl. No.	WO2020038426				
Link to	https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2020038426				
Appl.					
Applicants	WATERSTONE PHARMACEUTICALS(WUHAN) CO., LTD				
Priority Data	PCT/CN2018/101674 22.08.2018 CN				
Details Date of	HCV: Waterstone Pharmaceuticals (Wuhan) Company Ltd., filed an application claiming crystalline form A of SCY-635, a known anti-HCV compound. TPO was filed in which 4 prior art documents were used to challenge novelty and inventive step. TPO for another application filed by Waterstone – WO2020037530 that made identical claims as WO'426, was ready to be filed, but the link for submitting the TPO was not available. 22/12/2020				
Filing of TPO	22/12/2020				
National Phase	Office	Entry Date	National Number	National Status	
	China	22.02.2021	201980055287.9	Published 09.04.2021	
	Japan	22.02.2021	2021509987		
	United States of America	22.02.2021	17270197	Published 21.10.2021	
	European Patent Office	22.03.2021	<u>2019851016</u>	Published 30.06.2021	