

附表：上市 COVID-19 疫苗之相關專利資訊(2022 年 4 月更新)

已上市 COVID-19 疫苗	國外發明專利案/ 公開案 (我國對應案)	申請日 (我國對應案申請日)	專利狀態	重點技術	發明名稱
BNT162b2	US 2020/0246267 (TW201927288)	2018/10/18 (2018/10/18)	PENDING (審查中)	Lipids/NP + mRNA (脂質/奈米粒子+信使核 苷酸)	Preparation and Storage of Liposomal RNA Formulations Suitable for Therapy (適用於治療之微脂體RNA配製物的製備及 儲存)
	US 10576146 (無)	2018/3/15	ACTIVE	Lipids/NP + mRNA	Particles Comprising a Shell with RNA
	US 10485884 (無)	2013/3/25	ACTIVE	Lipids/NP + mRNA	RNA Formulation for Immunotherapy
	US 9950065 (無)	2013/9/26	ACTIVE	Lipids/NP + mRNA	Particles Comprising a Shell with RNA
	US 2020/0155671 (無)	2020/1/22	PENDING	Lipids/NP + mRNA	Particles Comprising a Shell with RNA
	US 2020/0197508 (無)	2018/3/21	PENDING	RNA immune response (RNA 免疫反應)	Methods and Compositions for Stimulating Immune Response
	US 10808242 (無)	2016/8/24	ACTIVE	RNA immunogenicity	Method for Reducing Immunogenicity of RNA
	US 2019/0321458 (無)	2017/7/14	PENDING	PC: Lipids/NP + mRNA	Formulation for Administration of RNA
	US 11045418 (無)	2016/3/30	ACTIVE	Lipids/NP + mRNA	Lipid Particle Formulations for Delivery of RNA and Water-Soluble Therapeutically Effective Compounds to a Target Cell
	US 11173120 (無)	2015/09/17	ACTIVE	Lipids/NP + mRNA	Stable Formulations of Lipids and Liposomes
	US 2014/0030808 (無)	2011/12/2	ABANDONED	RNA expression (RNA 表現)	Method for Cellular RNA Expression

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	US 9636414 (無)	2011/12/15	ACTIVE	Lipids/NP + mRNA	Particles Comprising Single Stranded RNA and Double Stranded RNA for Immunomodulation
mRNA-1273	US 10702600 (TW201729835)	2020/2/28 (2016/10/21)	ACTIVE (未申請實體審查)	Cationic Lipids/NP + mRNA	Respiratory Virus Vaccines (呼吸道病毒疫苗)
	US 10266485 US 10442756 US 9868692 (TW1757248)	2018/6/11 2017/12/18 2017/3/31 (2016/9/19)	ACTIVE ACTIVE ACTIVE (核准審定)	Lipids/NP + mRNA	Compounds and Compositions for Intracellular Delivery of Therapeutic Agents (用於細胞內遞送治療劑之化合物及組合物)
	US 10577403 US 10703789 (無)	2019/6/12 2019/6/12	ACTIVE ACTIVE	Lipids/ NP (for use in mRNA vaccine)	Modified Polynucleotides for the Production of Secreted Proteins
JNJ-78436735	US 9701718 (無)	2011/12/14	ACTIVE	腺病毒疫苗	Adenovirus Serotype 26 and Serotype 35 Filovirus Vaccines
	US 2018/080010 (無)	2017/11/27	PENDING	重組腺病毒載體	Method for the Production of Ad 26 Adenoviral Vectors
AZD1222	US 9714435 (無)	2012/5/25	ACTIVE	重組腺病毒載體/腺病毒疫苗	Simian Adenovirus and Hybrid Adenoviral Vectors
NVX-CoV2373	US10953089 (TW 202142555)	2021/03/23 (2021/11/06)	ACTIVE (未申請實體審查)	冠狀病毒刺蛋白	Coronavirus Vaccine Formulations (冠狀病毒疫苗配製品)
UB-612	WO2021168305 (TW202144384)	2021/02/19 (2021/02/19)	PENDING (審查中)	包括 SARS-CoV-2 棘蛋白之受體結合區域 RBD 的融合蛋白質	Designer Peptides and Proteins for the Detection, Prevention and Treatment of Coronavirus Disease, 2019 (COVID-19) (用於檢測、預防和治療新型冠狀病毒 COVID-19 疾病的設計胜肽及蛋白質)
ARCT-021	US10487105 US10968248	2017/10/19 2019/10/11	ACTIVE ACTIVE	mRNA Cap	Trinucleotide mRNA Cap Analogs

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	(無)				
	EP3773476 (無)	2019/04/01	PENDING	Lipids/ NP (for use in mRNA vaccine)	Lipid Particles for Nucleic Acid Delivery
	US2022096520 (無)	2019/12/06	PENDING	Modified Proteins	Modified Proteins and Associated Methods of Treatment
	US2021290756 (TW202200605)	2021/03/09 (2021/03/09)	PENDING (未申請實體審查)	編碼病毒複製蛋白和冠 狀病毒抗原蛋白之核酸	Coronavirus Vaccine Compositions and Methods (冠狀病毒疫苗組成物和方法)

(更新處以紅字標示)