### Press release

## For media and investors only



Issued: 28 October 2025, London UK

# GSK and Empirico enter license agreement for clinicalstage, first-in-class oligonucleotide candidate to treat respiratory diseases

- siRNA candidate EMP-012 in phase I for treatment of COPD
- EMP-012 targets a distinct inflammatory pathway with enhanced potency and longer dose intervals
- Potential to treat a broad spectrum of COPD, including patients with non-type 2 inflammation where treatment options are limited
- Asset provides option in monotherapy and in combination across GSK's comprehensive respiratory pipeline

GSK plc (LSE/NYSE: GSK) and Empirico Inc. (Empirico), a clinical-stage biotechnology company with leading capabilities in human genetics-driven target discovery and siRNA medicines, today announced that they have entered into a worldwide exclusive license agreement for EMP-012, a highly selective first- and potentially best-inclass siRNA, a type of oligonucleotide. EMP-012 addresses a novel therapeutic target and is currently in a phase I trial for the treatment of chronic obstructive pulmonary disease (COPD), with the potential for expansion into other inflammatory respiratory diseases.

Medical need in COPD remains high despite ongoing innovation. By 2050, COPD prevalence is expected to increase to about 600 million people and become the leading cause of all hospital admissions, costing healthcare systems approximately \$4 trillion. 1,2,3 Given the heterogeneous nature of COPD, novel therapeutic approaches are needed to treat the full spectrum of patients, especially those who do not qualify for biologics and face continued symptoms, exacerbations and hospitalisations.

EMP-012's novel mechanism of action, discovered by Empirico, targets a distinct inflammatory pathway introducing the potential for a therapeutic approach that is agnostic of baseline type 2 inflammation, smoking or co-morbid disease. The target is backed by extensive genetic data and translational insight, providing confidence in its potential. Based on this mechanism, EMP-012 could offer clinical benefit in patients with non-type 2 inflammation, a key patient sub-group where treatment options are limited. EMP-012's enhanced potency and longer dosing interval, resulting from Empirico's proprietary siRNA chemistry, strategically complements GSK's ongoing programmes in COPD, including long-acting biologics. In addition to its potential as a monotherapy, EMP-012 provides GSK further optionality for combinations across its COPD portfolio and pipeline.

Kaivan Khavandi, SVP & Global Head, Respiratory, Immunology & Inflammation R&D, GSK said: "This agreement reflects our ambition to transform care in COPD by advancing novel targets, backed by data, to address underlying drivers of disease. With its expected long-acting characteristics and ability to target distinct inflammatory pathways, EMP-012 complements our pipeline of diverse modalities in COPD and builds on the current landscape of inhaled and biologic therapeutics in this area of substantial unmet need."

Oligonucleotides, such as siRNA therapeutics, have a distinct ability to modulate gene expression, making them an attractive modality to address a significant proportion of therapeutic targets that are not amenable to traditional small molecules or biologics. EMP-012 bolsters GSK's already extensive oligonucleotide pipeline across GSK's respiratory, immunology and inflammation and infectious diseases therapy areas.

**Omri Gottesman, CEO and President, Empirico said:** "This collaboration further validates the enormous potential of Empirico's proprietary target discovery and siRNA platforms to rapidly generate differentiated clinical programs of significant value. GSK's global reach and deep expertise in COPD will help to accelerate the development of EMP-

Press release 1

### Press release

## For media and investors only



012, and we look forward to working closely with GSK on advancing a potentially transformative precision medicine for patients with COPD and other inflammatory respiratory diseases."

The agreement grants GSK full worldwide development and commercial rights to EMP-012. Empirico will continue to lead the clinical development of EMP-012 through the completion of the ongoing phase I clinical trial, following which GSK will assume responsibility for worldwide development, regulatory filings, and commercialisation.

#### Financial considerations

GSK will pay an \$85 million upfront payment and up to \$660 million in success-based development, regulatory and commercial milestones, as well as tiered royalties on net sales worldwide.

#### **About Empirico**

Empirico is a clinical-stage biotechnology company that discovers and develops siRNA medicines designed to mimic naturally-occurring genetic variants that confer beneficial effects on health and disease. Empirico's two foundational and proprietary technology platforms - the Precision Insights Platform™ for genetically-validated target discovery, and the siRCH™ platform for the discovery and development of siRNA medicines - enable Empirico and its collaborators to rapidly advance programs from the discovery and validation of novel targets to clinically-viable therapeutics. Empirico's exceptional internal capabilities, augmented by those of its partners, are driving the advancement of a growing and differentiated pipeline of wholly-owned and partnered programs for a broad range of common diseases with unmet medical need. Empirico is headquartered in San Diego, CA with a major second R&D site in Madison, WI. Learn more at empiri.co.

#### **About GSK**

GSK is a global biopharma company with a purpose to unite science, technology, and talent to get ahead of disease together. Find out more at gsk.com.

#### **Empirico enquiries**

Media: media@empiri.co
Investor Relations: IR@empiri.co

Business Development: BD@empiri.co

#### **GSK** enquiries

Media:	Simon Steel	+44 (0) 20 8047 5502	(London)
	Sarah Clements	+44 (0) 20 8047 5502	(London)
	Kathleen Quinn	+1 202 603 5003	(Washington DC)
	Lyndsay Meyer	+1 202 302 4595	(Washington DC)
Investor Relations:	Constantin Fest	+44 (0) 7831 826525	(London)
	James Dodwell	+44 (0) 20 8047 2406	(London)
	Mick Readey	+44 (0) 7990 339653	(London)
	Steph Mountifield	+44 (0) 7796 707505	(London)
	Sam Piper	+44 (0) 7824 525779	(London)
	Jeff McLaughlin	+1 215 751 7002	(Philadelphia)
	Frannie DeFranco	+1 215 751 3126	(Philadelphia)

#### Cautionary statement regarding forward-looking statements

GSK cautions investors that any forward-looking statements or projections made by GSK, including those made in this announcement, are subject to risks and uncertainties that may cause actual results to differ materially from those projected. Such factors include, but are not limited to, those described in the "Risk Factors" section in GSK's Annual Report on Form 20-F for 2024, and GSK's Q2 Results for 2025.

Press release 2

# Press release

# For media and investors only



#### Registered in England & Wales:

No. 3888792

#### Registered Office:

79 New Oxford Street London WC1A 1DG

#### References

1 Boers E, Barrett M, Su JG, et al. Global Burden of Chronic Obstructive Pulmonary Disease Through 2050. *JAMA Netw Open.* 2023;6(12):e2346598.

2 Khakban, Amir et al. "The Projected Epidemic of Chronic Obstructive Pulmonary Disease Hospitalizations over the Next 15 Years. A Population-based Perspective." American journal of respiratory and critical care medicine vol. 195,3 (2017): 287-291.

3 Chen S, Kuhn M, Prettner K, Yu F, Yang T, Bärnighausen T, Bloom DE, Wang C. The global economic burden of chronic obstructive pulmonary disease for 204 countries and territories in 2020-50: a health-augmented macroeconomic modelling study. Lancet Glob Health. 2023 Aug;11(8):e1183-e1193.

3 Press release