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OncoMed Pharmaceuticals Inc
Form 425
February 15, 2019

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Rule 425 under the Securities Act of 1933, as amended

Subject Company: OncoMed Pharmaceuticals, Inc.

Date: February 15, 2019.
(Subject Company Commission File No.: 001-35993)

February 2019 COMBINATION OF MEREO AND ONCOMED

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Additional Information Important Additional Information Has Been and Will Be Filed with the SEC Mereo has filed with the SEC (1) a preliminary registration statement on Form F - 4 containing the proxy statement of OncoMed that also constitutes a prospectus of Mereo (the "proxy statement/prospectus") and (2) other documents concerning the proposed merger. **BEFORE MAKING ANY VOTING DECISION, INVESTORS AND STOCKHOLDERS ARE URGED TO CAREFULLY READ THE PROXY STATEMENT/PROSPECTUS, AND OTHER RELEVANT DOCUMENTS FILED OR TO BE FILED WITH THE SEC, INCLUDING THE DEFINITIVE REGISTRATION STATEMENT ON FORM F - 4, IN THEIR ENTIRETY WHEN THEY BECOME AVAILABLE AND ANY OTHER DOCUMENTS FILED BY EACH OF MERO AND ONCOMED WITH THE SEC IN CONNECTION WITH THE PROPOSED MERGER OR INCORPORATED BY REFERENCE THEREIN BECAUSE THEY WILL CONTAIN IMPORTANT INFORMATION ABOUT MERO, ONCOMED, THE PROPOSED TRANSACTION AND RELATED MATTERS.** Investors and stockholders will be able to obtain free copies of the proxy statement/prospectus and other documents filed with the SEC by the parties through the website maintained by the SEC at www.sec.gov. In addition, investors and stockholders will be able to obtain free copies of the proxy statement/prospectus and other documents filed with the SEC on Mereo's website at [https://www.mereobiopharma.com/investors - page/sec - filings/](https://www.mereobiopharma.com/investors-page/sec-filings/) (for documents filed with the SEC by Mereo) or on OncoMed's website at [http://cms2.oncomed.com/investors/financial - information/sec - filings](http://cms2.oncomed.com/investors/financial-information/sec-filings) (for documents filed with the SEC by OncoMed). Participants in the Solicitation Mereo, Oncomed and their respective directors, executive officers and certain employees may be deemed to be participants in the solicitation of proxies from the stockholders of Mereo and OncoMed , respectively in connection with the proposed merger. Stockholders may obtain information regarding the names, affiliations and interests of OncoMed's directors and officers in OncoMed's Annual Report on Form 10 - K for the fiscal year ended December 31, 2017, which was filed with the SEC on March 8, 2018, and its definitive proxy statement on Schedule 14A for the 2018 annual meeting of stock holders, which was filed with the SEC on April 27, 2018. To the extent the holdings of OncoMed's securities by OncoMed's directors and executive officers have changed since the amounts set forth in OncoMed's proxy statement for its 2018 annual meeting of stockholders, such changes have been or will be reflected on Statements of Change in Ownership on Form 4 filed with the SEC. Information regarding the names, affiliations and interests of Mereo's directors and officers is contained in Mereo's Annual Report for the fiscal year ended December 31, 2017 and can be obtained free of charge from the sources indicated above. Additional information regarding the interests of such individuals in the proposed merger will be included in the definitive proxy statement/prospectus relating to the proposed merger when it is filed with the SEC. These documents (when available) may be obtained free of charge from the SEC's website at www.sec.gov ,

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Mereo's website at [https://www.mereobiopharma.com/investors - page/sec - filings/](https://www.mereobiopharma.com/investors-page/sec-filings/) , or on OncoMed's website at [http://cms2.oncomed.com/investors/financial - information/sec - filings](http://cms2.oncomed.com/investors/financial-information/sec-filings) .

FORWARD LOOKING STATEMENTS 2 Mereo BioPharma Group plc Forward - Looking Statements This communication contains “forward - looking statements”. All statements other than statements of historical fact contained in this report are forward - looking statements within the meaning of Section 27A of the United States Securities Act of 1933, as amended (the “Securities Act”), and Section 21E of the United States Securities Exchange Act of 1934, as amended (the “Exchange Act”). Forward - looking statements usually relate to future events and anticipated revenues, earnings, cash flows or other aspects of our operations or operating results. Forward - looking statements are often identified by the words “believe,” “expect,” “anticipate,” “plan,” “intend,” “foresee,” “should,” “would,” “could,” “may,” “estimate,” and similar expressions, including the negative thereof. The absence of these words, however, does not mean that the statements are not forward - looking. These forward - looking statements are based on our current expectations, beliefs and assumptions concerning future developments and business conditions and their potential effect on us. While management believes that these forward - looking statements are reasonable as and when made, there can be no assurance that future developments affecting us will be those that we anticipate. Factors that could cause actual results to differ materially from those in the forward - looking statements include failure to obtain applicable stockholder approvals in a timely manner or otherwise; failure to satisfy other closing conditions to the proposed transaction; failure to realize anticipated benefits of the proposed transaction; risks relating to unanticipated costs, liabilities or delays of the transaction; failure or delays in research and development programs; unanticipated changes relating to competitive factors in the companies' industry; risks relating to expectations regarding the capitalization, resources and ownership structure of the combined organizations; the availability of sufficient resources for combined company operations and to conduct or continue planned clinical development programs; the outcome of any legal proceedings related to the merger; risks related to the ability to correctly estimate operating expenses and expenses associated with the merger; risks related to the ability to project future cash utilization and reserves needed for contingent future liabilities and business operations; risks related to the changes in market prices of the shares of OncoMed's common stock or Mereo's ordinary shares relative to the exchange ratio; ability to hire and retain key personnel; the potential impact of announcement or consummation of the proposed transaction on relationships with third parties; changes in law or regulations affecting the companies; international, national or local economic, social or political conditions that could adversely affect the companies and their business; conditions in the credit markets; risks associated with assumptions the parties make in connection with the parties' critical accounting estimates and other judgments. All of our forward - looking statements involve risks and uncertainties (some of which are significant or beyond our control) and assumptions that could cause actual results to differ materially from our historical experience and our present expectations or projections. You should carefully consider the foregoing factors and the other risks and uncertainties that affect the parties' businesses, including those described in OncoMed's Annual Report on Form 10 - K, Quarterly Reports on Form 10 - Q, Current Reports on Form 8 - K and other documents filed from time to time by OncoMed and Mereo with the United States Securities and Exchange Commission (the “SEC”) and those described in Mereo's annual reports, relevant reports and other documents published from time to time by Mereo. We wish to caution you not to place undue reliance on any forward - looking statements, which speak only as of the date hereof. We undertake no obligation to publicly update or revise any of our forward - looking statements after the date they are made, whether as a result of new information, future events or otherwise, except to the extent required by law.

KEY TRANSACTION TERMS

3 Upfront Stock Consideration • Issuance of new Mereo shares (in the form of newly registered ADRs) to OncoMed shareholders • Ownership split on completion 75% Mereo / 25% OncoMed shareholders (1) • Consideration has an initial value of \$54 million (2) and represents an 86% premium to OncoMed's current market cap (2) **Contingent Value Rights** • **TIGIT**: Issuance of additional Mereo ADRs if OncoMed's partner Celgene exercises its opt in right on the TIGIT program before 31 Dec 2019 • Value to OncoMed shareholders will represent 100% of net Celgene milestone payment actually received – \$35m in Celgene contract • Number of Mereo ADRs to be issued calculated based on prevailing Mereo share price following milestone announcement (3) • **NAVI**: Cash payment of 70% of the net proceeds of any milestones received by Mereo in relation to NAVI for 5 years following completion • Subject to a cap of approximately \$80 million (1) Based on the total number of Mereo ordinary shares currently outstanding and subject to an adjustment mechanism based on target OncoMed net cash balance of \$38 million at closing (2) Based on Mereo's current share price of 180.5 pence per share and OMED share price of \$0.75 per share as at Jan 30, 2018 (3) New ADRs to be issued at completion or pursuant to the TIGIT CVRs will be subject to a total dilution cap such that they do not represent more than 66.7% of Mereo's issued share capital prior to completion (or equivalently, 40% of the enlarged share capital) Combined company will operate as Mereo BioPharma Management & Governance • Mereo's CEO, Denise Scots - Knight, and existing management team will lead combined company • Board of directors will include 8 existing Mereo board members (including chair) and 2 new members from OncoMed • London, UK headquarters and US operational base in Redwood City, California **Approvals & Closing** • Transaction has been unanimously approved by the Board of Directors of each company • Expected closing in H1 2019, subject to OncoMed shareholder approval

STRATEGIC RATIONALE FOR THE COMBINATION 4 • Three phase 2 readouts in core orphan products in 2019 (Mereo's BPS - 804 and MPH - 966) • Potential partnerships of Merco's BCT - 197 and BGS - 649 programs • Potential partnership of OncoMed's navicixizumab • Ongoing Celgene collaboration with an option to license OncoMed's etigilimab • Extends Merco's operational runway into 2020 • Pro - forma combined cash balance of \$115.5 million as of 30 September 2018 • Opportunity to further extend through partnering or etigilimab option exercise • Increased liquidity for shareholders • More diversified, global shareholder base • US institutional specialist healthcare investors • Two new biopharma industry - experienced independent non - executive directors • Combined expertise in product development and regulatory affairs • UK headquarters in London • US operational base in Redwood City, California Combined portfolio of six assets with near - term value catalysts Strong combined cash position US and UK stock market listing Enhanced team, capabilities and infrastructure

Dr. Peter Fellner Chairman Richard Jones Executive Director CFO MANAGEMENT & GOVERNANCE 5 John Richard Head of Corporate Development Richard Jones Chief Financial Officer Dr. Denise Scots - Knight Chief Executive Officer Wills Hughes - Wilson Head of Patient Access & Commercial Planning Charles Sermon General Counsel Dr. Alastair MacKinnon Chief Medical Officer Industry Leading Management Expertise Enlarged Group Board of Directors Executive Select Experience Dr. Denise Scots - Knight Executive Director CEO and Co - Founder Dr. Anders Ekblom Non – Executive Director Peter Bains Non – Executive Director Kunal Kashyap Non – Executive Director Paul Blackburn Non – Executive Director Deepa R. Pakianathan Non – Executive Director Michael Wyzga Non – Executive Director + Mereo board will be expanded to include two of OncoMed's directors

UPDATE ON THE TRANSACTION 6 • Draft Registration Statement on Form F - 4 filed with the SEC for Mereo on January 24, 2019 • Proxy statement of OncoMed included in Mereo Form F - 4 • OncoMed shareholder meeting to be scheduled Targeting completion in H1 2019

OVERVIEW OF THE ENLARGED MEREO

8 CORPORATE AND COMMERCIAL STRATEGY Mereo BioPharma Group plc The core strategy of the combined business will continue to focus on Orphan Drugs & Rare Diseases Potential new products Core Rare Disease Strategy Bone/ Musculoskeletal Endocrine Respiratory BPS - 804 Setrusumab MPH - 966 Alvelestat Potential new products Potential new products >1000 patients High unmet need Oncology Maximize Value to shareholders by Partnering for next stage development NAVI Navicixizumab TIGIT Etigilimab BCT - 197 Acumapimod BGS - 649 Leflurozole Respiratory Endocrine

Mereo BioPharma Group plc 9 OVERVIEW OF MEREO Mereo Overview • Clinical stage biopharmaceutical company focused on developing products for rare diseases • Headquartered in London, UK • Successfully completed two Phase 2 studies and a Phase 2b and Phase 2 underway • Extensive experience in clinical development, manufacturing, corporate development, patient access and commercial planning and finance and admin • Portfolio of products acquired from Novartis and AstraZeneca • Net cash of £36.9 million as of 30 June 2018 Product Candidate Phase 1 Phase 2 Phase 2b Current Status BPS - 804 • Phase 2b fully enrolled MPH - 966 • Phase 2 enrolling BCT - 197 BGS - 649 • Phase 2/2b completed Phase 2b Phase 2 Phase 2/2b • BPS - 804: (setrusumab) anti - sclerostin antibody resulting in differentiation, proliferation and survival of osteoblasts – targeting osteogenesis imperfecta • MPH - 966 (alvelestat): neutrophil elastase inhibitor delivered orally targeting alpha - 1 antitrypsin deficiency • Partnering BCT - 197 (acumapimod) P38 MAP kinase inhibitor with positive top - line data in acute exacerbations of COPD and BGS - 649 (leflutrosole) an aromatase inhibitory with positive top line data in hypogonadotropic hypogonadism Key Product Overview & Pipeline

Mereo BioPharma Group plc 10 OVERVIEW OF ONCOMED OncoMed Overview • Clinical stage biopharmaceutical company focused on discovering and developing novel anti - cancer therapeutics • Headquartered in Redwood City, California • Currently has three therapeutic candidates in clinical development (Phase 1/1b) • Extensive experience in administrative, regulatory and clinical project management • Established partnership with Celgene Corp • Net cash of \$70.9 million as of 30 Sep 2018 Product Candidate Pre - Clinical Phase 1A Phase 1B Current Status Navicixizumab (NAVI) • Phase 1B clinical trial under way Etigilimab (anti - TIGIT) • Phase 1a and 1b underway • Potential to realize \$35m milestone from Celgene GITRL - Fc Trimer (GITRL) • Phase 1a data due in 2019 Phase 1 Phase 1A Phase 1A • Navicixizumab (“NAVI”): bispecific monoclonal antibody that targets and inhibits both Delta - like ligand 4 and vascular endothelial growth factor • Etigilimab (“anti - TIGIT”): antibody that targets the T - cell immunoreceptor with immunoglobulin and ITIM domains (TIGIT), an inhibitory receptor that is thought to stop T - cells from attacking tumor cells • GITRL - Fc (“GITRL”): member of the tumor necrosis factor family of ligands and functions to activate the co - stimulatory receptor GITR to enhance T - cell modulated immune responses Key Product Overview & Pipeline

Mereo BioPharma Group plc 11 2019 2020 2021 BPS - 804 MPH - 966 Partnering BCT - 197 BGS - 649 NAVI ANTI - TIGIT Additional Rare Disease Products MEREIO UPCOMING KEY MILESTONES Pediatric Pivotal 12 month fracture Partnering (regulatory) New product opportunities 6m Adult HRPqCT data 12m 12m Phase 2 POC Study

COMBINED FINANCIALS

MERGER DEAL METRICS Mereo Oncomed Base (at close) Inc TIGIT CVR Shares in issue 71.2 m 38.6m 95.0 110.2m Price per share (1) £ 1.805 \$ 0.75 New shares issued New ADR's issued (5 for 1) 4.7m (1) 8.2m (3) % shareholding 25% 35% Equity value \$55.2m (2) \$ 90.2m (2) Value per share \$1.43 (2) \$ 2.34 (2) Premium (to current) (2) 93% 216% 13 (1) Based on the total number of Mereo ordinary shares currently outstanding and subject to an adjustment mechanism based on target OncoMed net cash balance of \$38 million at closing (2) Based on Mereo's current share price of 180.5 pence per share and OMED share price of \$0.73 per share as at January 30, 20 19 (3) New ADRs to be issued at completion or pursuant to the TIGIT CVRs will be subject to a total dilution cap such that they do not represent more than 66.7% of Mereo's issued share capital prior to completion (or equivalently, 40% of the enlarged share capital)

SELECTED PROFORMA CONSOLIDATED STATEMENT OF OPERATIONS (1) FOR THE YEAR ENDED
 DECEMBER 31, 2017 £'m Mereo Oncomed Proforma adjustments Proforma consolidated Collaboration and other
 revenue - 29.6 - 29.6 Research and development expenses (34.6) (46.4) (2.9) (83.9) Restructuring charges - (2.0) 2.0 -
 Operating (loss) (45.3) (31.8) (3.6) (80.7) Loss (after tax) (38.8) (30.3) (3.6) (72.7) Loss \$'m equivalent (48.8) (39.1)
 Monthly loss run rate \$4.1m \$3.3m 14 (1) Extracted from unaudited pro forma condensed combined financial
 information contained within pages 24 - 34 of the F - 4 filed with the SEC on January 24, 2019

SELECTED PROFORMA CONSOLIDATED BALANCE SHEET (1) AS OF JUNE 30, 2018 £'m Mereo Oncomed
 Proforma adjustments Proforma consolidated Property, plant & equipment 0.2 1.9 (0.4) 1.6 Intangible assets 32.7 -
 14.4 47.1 Other assets - 1.4 - 1.4 Total non - current assets 32.8 3.3 14.0 50.1 Short - term investments, cash & short
 term deposits 36.9 60.5 - 97.4 Other current assets 12.3 1.2 - 13.5 Total current assets 49.2 61.7 - 110.9 Total assets
 82.0 65.0 14.0 161.0 15 (1) Extracted from unaudited pro forma condensed combined financial information contained
 within pages 24 - 34 of the F - 4 filed with the SEC on January 24, 2019

COMBINED GROUP CASH RUNWAY EXTENDED INTO 2020 16 Key go forward funding priorities Funding commitment ended in 2018 Trials ended/ending BCT - 197 Phase 2: Completed BGS - 649 Phase 2b: completes this year NAVI Phase 1b Etigilimab (anti - TIGIT) Phase 1a GITRL - Fc Trimer Key ongoing studies BPS - 804 Adult Phase 2b MPH - 966 Phase 2 proof of concept Combined proforma net cash at Sept 30, 2018 was \$115.5m Post merger, additional funding expected via partnering opportunities for the non - rare disease products Mereo BioPharma Group plc Funding commitment ends in 2019 Key planned study BPS - 804 Paediatric Phase 3 study

Denise Scots - Knight – CEO Richard Jones – CFO Alastair Mackinnon - CMO February 2019 IMPROVING
OUTCOMES FOR PATIENTS IN RARE DISEASES

BPS - 804 SETRUSUMAB (ACQUIRED FROM NOVARTIS IN 2015)

OSTEOGENESIS IMPERFECTA A SEVERE GENETIC BONE DISEASE 19 Mereo BioPharma Group plc

Mereo BioPharma Group plc OSTEOGENESIS IMPERFECTA (OI) 20 An orphan genetic chronic bone disorder characterised by fragile bones that break easily 6.2 OI cases per 100,000 population in the US 1 10 OI cases per 100,000 population in the EU 2 Prevalence: 85% - 90% linked to a gene mutation that produces abnormal type 1 collagen 1, 2 72% - 77% of total OI population 3 Symptoms • Frequent bone fractures and brittle teeth • Early hearing loss • Respiratory problems Historically 83 patients received BPS - 804. In OI patients, statistically significant improvement in lumbar spine BMD and increase in biomarkers of bone building and reduction of biomarkers of bone resorption shown OI types I, III and IV occur in 1) Based on Osteogenesis Imperfecta Foundation estimates 2) Based on Orphanet estimates 3) Shapiro J (2014) Osteogenesis Imperfecta: A Translational Approach to Brittle Bone Disease. Academic Press. Chapter 2: p15 - 22 No FDA or EMA approved therapies in OI

OI TREATMENT: DRUGS USED – NONE FDA OR EMA APPROVED FOR OI Bisphosphonates Alendronate, risedronate, pamidronate, zoledronate, etc. Approved for treatment of adult osteoporosis Synthetic analogues of pyrophosphate Inhibit bone resorption Can be given orally or intravenously, depending on compound PTH analogue Teriparatide (Forteo ®) Increases number + activity of osteoblasts Increases bone turnover Usefulness in OI not clear Black box warning due to potential risk of osteosarcoma RANKL Inhibitor • Denosumab (Prolia ®) • Inhibits bone resorption 21

BPS - 804 ADULT PHASE 2B STUDY 22 Completed enrolment: Trial arms: Study duration: 112 OI Patients Types I, III and IV 6 months open label data 1H 2019 with 12 months H2 2019 Top line data from three blinded arms by the end of 2019 Three different monthly dosing regimens of BPS - 804 Open label arm at top monthly dose 52 Weeks Analysis at 26 and 52 weeks Primary endpoints Trabecular volumetric BMD by HRpQCT versus baseline at 12 months Change in bone strength using finite element analysis Secondary endpoints • Trabecular volumetric BMD by HRpQCT at 6 months • BMD by DXA scans at 6 and 12 months • HRpQCT parameters • Bone biomarkers • PRO and quality of life Mereo BioPharma Group plc

BPS - 804 – PEDIATRIC PHASE 3 STUDY 23 Planned enrolment: 24 patients 5 - 18 years Total Study duration ~160
Severe OI Patients Types I, III and IV Initiation in 2019 first in EU and Canada Patients on bisphosphonate therapy
One month dose finding – 3 doses versus placebo Additional 128 patients Randomised 1:1 placebo to selected dose 52
Weeks Primary endpoints Fracture rate versus placebo at 12 months Secondary endpoints • Trabecular volumetric
BMD by HRpQCT • BMD by DXA scans 12 months • All HRpQCT parameters • Bone biomarkers • PRO and quality of
life Mereo BioPharma Group plc

BRITTLE MOUSE MODEL – TREATMENT WITH BPS - 804 24 Mature Brtl control Mature Brtl treated Mature
WT Control Mature WT Treated Mereo Biopharma Group plc

THE OFLEY STUDY AND HRPQCT 25 Bone Microarchitecture Assessed by HR - pQCT as Predictor of Fracture Risk in Postmenopausal Women Sornay - Rendu et al JBMR March 09 2017 • Prospective study investigating the prediction of fracture (Fx) by bone microarchitecture assessed by HRpQCT in postmenopausal women • HRpQCT used to measure microarchitecture at the distal radius and tibia in 589 women (mean 68 years old) • During 9 year follow up 135 women sustained a fracture including 81 women with a major osteoporotic fracture • After adjusting for age women who had fractures had significantly lower total and trabecular volumetric densities (vBMD) at both sites as determined by HRpQCT • OI patients have fewer and thinner trabeculae and increased cortical porosity

HRPQCT SCANS OF PATIENTS WITH OI AND CONTROLS 26 Mereo Biopharma Group plc

BPS - 804 REGULATORY UPDATE 27 Orphan drug status EU and US PIP agreed with EMA Admitted to the Adaptive Pathway and PRIME in the EU • Ongoing interactive dialogue with EMA and HTA's • Real world evidence/registries Plan to engage with the FDA on extending the pediatric Phase 3 trial to sites in the United States Will initiate the study in EU and Canada • Validation of HRpQCT in the pediatric study • Once validated, the use of HRpQCT data may be sufficient to support submission of a CMA to the EMA for the treatment of adults with OI in the EU • CMC plan under review with the regulators Mereo BioPharma Group plc

MPH - 966 ALVELESTAT (ACQUIRED FROM ASTRA ZENECA IN 2017)

Mereo BioPharma Group plc ALPHA - 1 ANTITRYPSIN DEFICIENCY (AATD) An orphan genetic disorder that results in pulmonary disease North America ~ 50,000 Europe ~60,000 Estimated prevalence of target patients (PiZZ and Nulls) Symptoms: • Age 20 - 50 - wheeze and reduced exercise tolerance • PiZZ and Null adults develop early onset emphysema • Some mutations can cause cirrhosis in children • Reduced life expectancy Current treatment is weekly IV alpha 1 antitrypsin protein – annual cost up to \$150k ~9000 patients MPH - 966 in 1000 patients in 4 COPD studies and a cystic fibrosis and bronchiectasis study (positive) Genetic mutation produces deficiency through abnormal folding of the protein or zero production of the protein Mutations in SERPINA1 gene chromosome 14 Only homozygotes (ZZ's) and Nulls have severe disease 29 Francisco et al (2012) Rare alpha - 1 - antitrypsin variants: are they really so rare? Therapeutic Advances in Respiratory Disease J anuary 30 Luisetti et al (2004) 1 - Antitrypsin deficiency · 1: Epidemiology of 1 - antitrypsin deficiency Thorax 59:164 - 169

Mereo BioPharma Group plc RESTORING THE BALANCE IN ALPHA - 1 LUNG DISEASE WITH
NEUTROPHIL ELASTASE INHIBITOR - ALVELESTAT 30 Elastase Anti - Elastase Alpha - 1 antitrypsin
Alvelestat

CT IMAGES SHOWING THE LUNG OF AN ALPHA - 1 ANTITRYPSIN DEFICIENT PATIENT 31 Normal lung
AATD lung Mereo Biopharma Group plc

MPH - 966 – RELEVANT CLINICAL STUDIES TO - DATE Cystic Fibrosis • Total of 56 patients in one study • 27 patients treated for 4 weeks with 60mg BD • Statistically significant reduction in the biomarker urine desmosine Bronchiectasis • Total of 38 patients in one study • 22 patients treated for 4 weeks with 60mg BD • Statistically significant improvement in FEV1 and clinically meaningful improvement in SVC (slow vital capacity) 32 • In addition total of 970 patients across four COPD studies

MPH - 966 – PROOF OF CONCEPT PHASE 2 STUDY • Three - arm study with two different dosing arms versus placebo • Planned enrolment - 165 patients completed • Treatment duration - 12 weeks • FPI in November 2018 Primary Endpoint • Desmosine - biomarker shown to have correlation with lung density by CT scan 1 Proposed Patient Population • CT scan - emphysema • Confirmed genotype (PiZZ or Null) • FEV1>25% 33 1) A biomarker in KAMADA's RAPID study. Ref: Ma S, Lin YY, Cantor JO, et al. The effect of alpha - 1 proteinase inhibitor on biomarkers of elastin degradation in alpha - 1 antitrypsin deficiency: An analysis of the RAPID/RAPID Extension trials. Chronic Obstr Pulm Dis. 2017; 4(1): 34 - 44. Mereo BioPharma Group plc

BCT - 197 ACUMAPIMOD (ACQUIRED FROM NOVARTIS IN 2015)

Mereo BioPharma Group plc ACUTE EXACERBATIONS OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE (AE COPD) 35 16m COPD cases diagnosed in the US 1 13m COPD cases estimated in the EU 2 Prevalence: >1.5m Hospital visits per year 3 COPD includes chronic bronchitis, emphysema and some forms of bronchiectasis Symptoms AECOPD - patients with COPD experience a sustained increase in cough, sputum production or dyspnoea Each episode poses significant risk to the patient, including hospitalisation and an increased risk of death 62.5% of all hospital admissions related to COPD are AECOPD patients 4 1) National Heart, Lung and Blood Institute (accessed in Nov 2017) 2) COPD Coalition 3) Mannino et al (2002) MMWR Surveill Summ 51: p1 - 6 4) Wier et al (2011) AHRQ, HCUP, Statistical Brief #106 p1 - 11

36 PRIMARY ENDPOINT (CHANGE IN FEV1 FROM BASELINE TO DAY 7 WITHIN THE TREATMENT GROUP) Primary endpoint met on an ITT basis for both high and low dose regimens ($p=0.012$, $p \leq 0.001$) versus no significant change from baseline ($p=0.102$) for Standard of Care plus placebo POSITIVE CLINICAL AND HEALTH ECONOMIC OUTCOMES SUPPORTED BY OTHER SECONDARY MEASURES Statistically significant reduction of more than 50% ($p \leq 0.027$ to 0.05) in the number of clinical treatment failures compared to standard of care plus placebo as measured by the number of re hospitalisations for the treatment of COPD at days 90 through 150 SAFETY BCT - 197 was reported to be safe and well tolerated with adverse events in line with expectations for this patient population BCT - 197 MET THE PRIMARY END - POINT IN THE PHASE 2 TRIAL TOTAL OF 282 PATIENTS Mereo BioPharma Group plc

BGS - 649 LEFLUTROZOLE (ACQUIRED FROM NOVARTIS IN 2015)

HYPOGONADOTROPIC HYPOGONADISM (HH) IN OBESE MEN 38 A highly prevalent clinical syndrome that results from inadequate levels of testosterone 35.5 % Adult males in the US are obese 1 21.9 % Adult males in the EU are obese 1 Prevalence: 15.8 % HH prevalence in obese men 2 12 million* obese men with HH in the US and the EU Symptoms: • Reduced or loss of libido • Erectile dysfunction • Fatigue • Impaired physical endurance and strength • Loss of vitality/motivation Low current treatment rates <13% in the US and lower in Europe 3 Androgel average annual pricing is approximately \$7,000 per year (market leader) 1) Based on 2016 WHO estimates 2) Hofstra et al (2008) Netherlands J. Med, 66 p103 - 109 3) Update on Hypogonadism and Testosterone Replacement Therapy (2011) Chapter in Practicing Clinical Exchange p1 - 15 *estimate Mereo BioPharma Group plc

BGS - 649 MET THE PRIMARY END POINT IN THE PHASE 2B TRIAL TOTAL OF 271 PATIENTS 39 •
PRIMARY ENDPOINT : normalisation of testosterone @ 24 wk in >75% subjects Met at all three doses $p < 0.001$
versus placebo No patient >1500 ng/dl at any time point, in the treatment groups • SECONDARY ENDPOINT :
normalisation of testosterone @ 24 wk in >90% subjects met in top two doses ($p < 0.001$) with 88% of subjects on low
dose LS Mean change from baseline in testosterone – ITT population (MMRM) Mereo Biopharma Group plc

40 BGS - 649 MET THE SECONDARY END POINTS IN THE PHASE 2B TRIAL Total of 271 patients LS Mean change from baseline in FSH in ITT population (MMRM) LS Mean change from baseline in LH in ITT population (MMRM) SECONDARY ENDPOINTS Change in fertility hormones (LH and FSH) from baseline at 24 weeks met by all three doses $p < 0.001$ versus placebo EXPLORATORY ENDPOINTS Improvement in total motile sperm count across all three doses versus placebo with statistical significance attained for high dose Positive trend on reduction of fatigue in the exploratory patient reported outcomes (PROs) at 8 - 12 weeks treatment PHASE 2b EXTENSION STUDY (143 patients) No doses met lower bound (95% CI) of pre - specified safety criterion of a $> 3\%$ reduction in lumbar spine, hip or femoral neck BMD after 48 weeks. No shift into osteopenia or osteoporosis, no development of new osteopenia. Efficacy data consistent with Phase 2b: • all three doses normalised testosterone in 75% of patients • all three doses normalised testosterone in 90% of patients • all three doses increased LH and FSH Safety Reported to be safe and well tolerated during the study. Increased incidence of elevated haematocrit levels was noted and in the higher doses small increases in blood pressure, both consistent with increasing testosterone levels Mereo Biopharma Group plc

1 H 2018 MEREQ FINANCIAL RESULTS

FINANCIAL HIGHLIGHTS 42 Mereo BioPharma Group plc £126 million* R&D spend in 1 H 2018 £10.9 million Cash and short term deposits and short term investments at June 30 2018: £ 36.9 million* £7.1 million Funded through to key clinical milestones *(gross including debt facility) (£3.8m on non - GAAP adjusted basis) (£ 10.5 m on non - GAAP adjusted basis) Admin Expenses in 1H 2018 Total financing raised since launch *unaudited balances excludes FY ' 17 R&D tax credit £ 8.2 m Novartis convertible debt balance at June 30 2018 £2.3 million • £ 15 m (gross) placing completed in April 2017 • £20m debt facility agreed in August, 2017 fully drawn as at December 31, 2017

APPENDIX

ROBUST INTELLECTUAL PROPERTY PORTFOLIO 2019 2021 2023 2025 2027 2029 2031 2033 2035 2037
 Compound per se – granted in all major territories Compound per se – granted in all major territories BCT - 197 MPH -
 966 BPS - 804 Antibody and use – granted in all major territories 1 Data & Marketing Exclusivity - EUROPE 44 1
 Orphan Drug Exclusivity - US - EUROPE - US 1. Dependant on MA date 2. Alternative SPC extension Mereo
 BioPharma Group plc IP significantly expanded with orphan drug status in US and EU Extended IP protection with
 additional salt/polymorph patent Additional formulation and methods of use filed Medical use - granted in all major
 territories Formulations and Medical Use – granted in all major territories Extended IP protection with additional
 medical use patent BGS - 649 Novel salt/polymorph – granted in all major territories 2 SPC/Term Extension 1
 Data/Marketing Exclusivity - US Data/Marketing Exclusivity – Europe 1 Data/Marketing Exclusivity - US
 Data/Marketing Exclusivity – Europe 1 Data/Marketing Exclusivity - US Data/Marketing Exclusivity – Europe
 SPC/Term Extension SPC/Term Extension SPC/Term Extension 2 SPC/Term Extension SPC/Term Extension

45 Transaction Mereo Entitlement NVS/AZ Entitlement Licence of product in territory or worldwide Majority percent of licensing income (upfront, milestones and royalties) Share of licensing income (upfront, milestones and royalties) Commercialisation by Mereo (territory or worldwide) Product sales Ascending tiered royalties typical for Phase 2 products and in the case of AZ cash milestones on sales Sale of Mereo subsidiary Proceeds from sale Buyer steps into Mereo's shoes re (i) royalties and any milestones on any products directly commercialised by Buyer (ii) sharing any licensing income Sale of Mereo Group Exit for shareholders (NVS and AZ equity) Buyer steps into Mereo's shoes re (i) royalties and/or milestones on any products directly commercialised by Buyer (ii) sharing any licensing income Option to acquire MPH966 outright Equity and cash milestones including successful POC study and initiation of pivotal study GUIDANCE ON TERMS OF PRODUCT ACQUISITION AND LICENSE AGREEMENTS Mereo BioPharma Group plc CONFIDENTIAL

46 SETRUSUMAB: MECHANISM OF ACTION • In the absence of sclerostin, Wnt activates Dishevelled through LRP 5 / 6 /Frizzled • The intracellular pathways upregulate target gene expression, osteoblast differentiation, proliferation & survival, leading to increased bone formation • Sclerostin (secreted by osteocytes) inhibits this process • Setrusumab blocks the inhibition by sclerostin, allowing the original pathway to proceed

ALPHA 1 ANTITRYPSIN DEFICIENCY CURRENT TREATMENT • Routine COPD medications • Augmentation therapy: - Plasma derived alpha 1 anti trypsin - Weekly one hour IV infusion - Approval based on restoration of A1AT to a threshold level NOT clinical outcome data - Cost \$150k pa - ~9,000 patients treated • Surgery – lung volume reduction surgery or transplant 47 1 Brode et al Alpha - 1 antitrypsin deficiency: a commonly overlooked cause of lung disease. CMAJ, September 4, 2012, 184(12)

LONG TERM AUGMENTATION AND SHORT TERM TREATMENT WITH AZD - 9668 – IMPACT ON
 DESMOSINE RAPID study - 2 years of augmentation in AATD patients • Reduced loss of lung density: - Total lung
 capacity (TLC) - 1.45 g/l/year vs - 2.19 g/l/year (P= 0.03) • Post hoc analysis demonstrated correlation in change in
 desmosine vs lung density (reduced desmosine – less loss of lung density) -15 -10 -5 0 5 10 15 AZD d28 A1P1 3 mos
 A1P1 12 mos A1P1 24 mos % Change in Plasma Desmosine Change in Median Plasma Desmosine AZD 6998 -
 alvelestat (CF and BE combined) compared to A 1 P 1 Augmentation (RAPID Study) Active Pbo Data from RAPID
 study 48

BCT - 197 RESULTED IN A SIGNIFICANT REDUCTION IN THE INFLAMMATORY MARKERS HSCR P AND FIBRINOGEN IN THE FIRST 14 DAYS DURING THE INDEX EXACERBATIO N 49 • Dose – dependent, statistically significant reductions in key inflammatory markers hsCRP and fibrinogen • Suppression of hsCRP maintained through the 26 - week observation period Mereo Biopharma Group plc P - values compared to placebo *= <0.05 **=<0.02 ***=<0.01 P - values compared to placebo *= <0.05 NS= p>0.05

BCT197 REDUCED THE PERCENTAGE OF PATIENTS WHO SUFFERED A SUBSEQUENT EXACERBATION IN FREQUENT EXACERBATORS 50 • Effect on moderate/severe exacerbations best seen in patients with ≥ 2 exacerbations / year • Patient population with highest unmet need Mereo Biopharma Group plc 47% 40% 25% 53 % 60% 75 % 0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100% PLACEBO LDR HDR Mod / severe exacerbation Mild or no event

Mereo BioPharma Group plc BGS - 649 (HH): HPT FEEDBACK LOOP PROCESS 51

H1 2018 FINANCIAL RESULTS

53 Mereo BioPharma Group plc SUMMARY OF FINANCIAL RESULTS FOR THE SIX MONTHS ENDED JUNE,
 30 2018 H1'18 H1'18 £'000 Share based payments £'000 Fx £'000 One off legal costs £'000 H1'2018 Non - GAAP £'000
 H1'2017 Non - GAAP £'000 Development costs (10,864) 337 - (10,527) (20,823) Admin expenses (7,102) 1,080 2,235
 (3,787) (2,982) Operating loss (17,966) (14,314) (23,805) Finance charge (1,386) 87 (1,299) 199 Loss before tax
 (19,352) (15,613) (23,606) Tax 2,365 2,365 4,546 Net Loss (16,988) 1,417 87 2,235 (13,249) (19,060) EPS 24 pence
 19 pence 28 pence Net cash resources 36, 912* 56,575 * Excludes FY '17 R&D tax credit due of £8.2m

0 1 2 3 4 5 6 7 8 9 BPS-804 MPH-966 BGS-649 BCT-197 R&D personnel H1'17 vs H1 '18 H1'17 H1'18 54 R&D
COSTS BY SEGMENT (£ ' M) Total R&D costs H1 '18 £10.9m (H1'17: £21.4m) Mereo BioPharma Group plc

0 2 4 6 8 10 12 14 16 BPS-804 AZD-9668 BGS-649 BCT-197 G&A 2015 to 2017 2015 2016 2017 55 TOTAL
OPERATING COSTS BY SEGMENT (£'M) Total spend (operating loss) in 2017 £45.3m Mereo BioPharma Group
plc

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