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ASX ANNOUNCEMENT 2 August 2021

Bionomics Announces Plans to Conduct U.S. Initial Public Offering

Bionomics Limited (ASX: BNO, OTCQB: BNOEF), (**Bionomics**) a global, clinical stage biopharmaceutical company, is pleased to announce that it plans to conduct a registered initial public offering of American Depositary Shares (**ADSs**) in the United States and a concurrent listing of ADSs on Nasdaq. The number of ADSs and price of the proposed offering have not yet been determined. The proposed offering is expected to commence after the U.S. Securities and Exchange Commission completes its review process of a registration statement relating to the proposed offering (the Registration Statement) that the company intends to file, and subject to market and other conditions, including the effectiveness of the Registration Statement and shareholder approval under Australian Securities Exchange (**ASX**) Listing Rule 7.1. Each ADS would represent a certain number of fully paid ordinary shares in Bionomics.

No final decision has been made in respect of the Nasdaq listing and there can be no assurance as to the occurrence, timing or completion of such a listing. Following any Nasdaq listing Bionomics shares would continue to trade on ASX.

This press release is being made pursuant to and in accordance with Rule 135 under the U.S. Securities Act of 1933, as amended. This press release does not constitute an offer to sell or the solicitation of an offer to buy securities, and shall not constitute an offer, solicitation or sale in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of that jurisdiction.

Forward Looking Statements

This press release contains forward-looking statements. All statements contained in this press release that do not relate to matters of historical fact should be considered forward-looking statements, including without limitation statements regarding our plans to conduct a registered initial public offering in the United States and the timing of the proposed offering.

These forward-looking statements are based on management's current expectations. These statements are neither promises nor guarantees, but involve known and unknown risks, uncertainties and other important factors that may cause our actual results, performance or achievements to be materially different from our expectations expressed or implied by the forward-looking statements, including, but not limited to, the following: we may determine not to conduct a registered initial public offering on the time frame that we currently expect or at all, due to a number of potential important factors, including conditions in the U.S. capital markets, negative global economic conditions, potential negative developments in our clinical trials or research programs, other negative developments in our business, or unfavorable legislative or regulatory developments.

These and other important factors could cause actual results to differ materially from those indicated by the forward-looking statements made in this press release. Any such forward-looking statements represent management's estimates as of the date of this press release. While we may elect to update such forward-looking statements at some point in the future, we disclaim any obligation to do so, even if subsequent events cause our views to change. These forward-looking statements should not be relied upon as representing our views as of any date subsequent to the date of this press release.

Released on authority of the Board

FOR FURTHER INFORMATION PLEASE CONTACT:

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About Bionomics Limited

Bionomics (ASX: BNO, OTCQB: BNOEF) is a clinical-stage biopharmaceutical company leveraging its proprietary platform technologies to discover and develop a deep pipeline of best-in-class, novel drug candidates for patients affected by central nervous system (CNS) disorders. Bionomics' lead drug candidate BNC210 is a negative allosteric modulator of the α7 nicotinic acetylcholine receptor. BNC210 oral tablet formulation is currently being evaluated in a second Phase 2b trial for the treatment of Post-Traumatic Stress Disorder (PTSD) for which it was granted Fast Track designation by the FDA. BNC210 is also being evaluated as an acute treatment in Social Anxiety Disorder (SAD) patients and is expected to enter a Phase 2 trial. In addition, Bionomics has entered into a Memorandum of Understanding with EmpathBio Inc, a wholly owned subsidiary of Germany-based CNS clinical development company, atai Life Sciences, to collectively explore a combination drug treatment regimen with Bionomics' BNC210 and EmpathBio's 3,4- Methylenedioxymethamphetamine (MDMA) derivative EMP-01 for the treatment of PTSD. Beyond BNC210, Bionomics has a strategic partnership with Merck & Co., Inc (known as MSD outside the United States and Canada) with two drugs in early-stage clinical trials for the treatment of cognitive deficits in Alzheimer's disease.