



ASX Announcement

14 July 2021

Grant of European Patent over HXP124

Hexima extends its patent protection for pezadeftide

MELBOURNE, AUSTRALIA (14 July 2021): Hexima Limited (ASX:HXL) a clinical stage biotechnology company developing pezadeftide (formerly HXP124), as a potential new prescription topical treatment for onychomycosis, announces that a European patent covering the use of pezadeftide for the treatment of onychomycosis will be granted today, 14 July 2021.

The patent (#3209319) is described as “A Method of Treatment” and provides broad protection covering the therapeutic use of pezadeftide, as well as topical formulations containing pezadeftide, for the treatment of onychomycosis. The patent provides protection until 2035 and Hexima also expects to benefit from up to an additional five years of market exclusivity through the supplementary patent certification available for medicinal products in member states of the European Union.

The award of this European patent further strengthens Hexima’s patent portfolio which includes similar granted patents in the United States, Japan, Singapore and Australia. Hexima continues to pursue further patent filings in these and other jurisdictions; most recently receiving notification of the grant of “A Method of Treatment” patent (#382906) in Mexico.

Hexima CEO Michael Aldridge said, “With patent protection of pezadeftide (HXP124) in major markets a central element in Hexima’s IP strategy, I’m pleased to be able to share with shareholders the news of the grant of the European patent which is an exciting addition to our patent portfolio. The patent granted in Mexico also adds to our broad suite of patent protection and strong IP position.”

This announcement is authorised for release to ASX by Dr Nicole van der Weerden, COO

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About Hexima

Hexima (ASX:HXL) is a clinical stage, anti-infectives focused biotechnology company engaged in the research and development of defensin peptides for applications as human therapeutics. Our lead product candidate, pezadeftide (HXP124) applied in a topical formulation, is a potential new prescription treatment for toenail fungal infections (or onychomycosis). Hexima is currently conducting an Australian phase IIb clinical trial testing pezadeftide for the treatment of onychomycosis. Hexima holds granted,



long-life patents protecting pezadeftide in major markets globally. For additional information about Hexima please visit www.hexima.com.au. You can also find us on [Twitter](#) and [LinkedIn](#).

About Onychomycosis

Onychomycosis is a common fungal nail infection in the nail plate and nail bed. Prevalence of onychomycosis has been estimated at between 10% (Japan) and 13.8% (USA).^[1] Onychomycosis is an infectious disease and is difficult to treat with significant healthcare burden. It causes pain in approximately 50% of patients and in the US results in close to four doctor's visits annually for treatment.^[2] Onychomycosis impacts a patient's quality of life with 51% unable to wear the shoes they would prefer and 66% distressed by the appearance of their nail.^[3] It is important to treat onychomycosis as the fungi in the nail and can be a source of secondary infection in other areas of the body or infect family members and spread to the environment.

Onychomycosis is the most common nail disorder accounting for 50% of all nail diseases. It is particularly prevalent in older, diabetic and immune compromised populations.^[2] The global market for treatments for onychomycosis was approximately US\$3.7 billion in 2018.^[4]

Treatment of Onychomycosis

Approved prescription therapies for onychomycosis comprise either oral or topical medications. Oral medications are associated with adverse effects such as nausea, taste disturbance, and flatulence. They can also severely impact liver function and so often require liver function monitoring. The clinical and commercial success of topical medications has been constrained by an inability of anti-fungal agents to effectively penetrate the human nail and the lack of sufficient anti-fungal activity when in contact with the target pathogen.^[5]

Hexima's Approach

Hexima embraces the significant challenge of new product development for onychomycosis. Hexima has taken a very different approach, building on its many years of ground-breaking research into the evolutionary tools that plants use naturally to fight fungal infections. The result is pezadeftide, a new topical treatment for onychomycosis, with a novel and powerful fungicidal mode of action.

Historically, therapies for onychomycosis have generally focused on new forms of the azole class of antifungal agents or improving the topical delivery of systemic antifungal agents. Hexima's technology is a completely novel approach with fundamental differences that address the well-documented limitations of these traditional technologies.

Pezadeftide penetrates the nail more effectively than existing topical treatments and so can more readily target the fungal cells which proliferate in the nail bed. It is also more effective at rapidly killing fungal cells on contact. Together, these properties mean that HXP124 has the potential to resolve the fungal infection more quickly, leading to faster and more complete clearing of the infected nail area. Consequently, pezadeftide offers the promise to capture significant value in a large and poorly served market.

Notes:

1. Tatchibana et al., Journal of Fungi, 2017
2. Joseph et al, Supplement to Podiatry Today, 2013
3. Milobratovic et al., Mycoses, 2013
4. Persistence Market Research 2018
5. Wang et al., Onychomycosis: Diagnosis and Effective Management, 2018