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**ASIT biotech identifies an original mechanism of action for gp-ASIT+™
that is the basis for a new method for the in vitro selection
of future ASIT+™ products for allergy immunotherapy**

- The mechanism of action of gp-ASIT+™ confirms the originality and the very fast clinical effect of ASIT+™ products.
 - The new method for selecting active substances for allergy immunotherapy complements the ASIT+™ technology platform that enables to reduce development risks and costs of its drug candidates.
 - A patent application has been filed for this new selection method which safeguards ASIT biotech's future developments and significantly enhances partnership opportunities.
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Brussels, Belgium 2 May, 2018 - 7.30 am (CEST) - ASIT biotech (Euronext: ASIT - BE0974289218), a Belgian biopharmaceutical company specialized in allergy immunotherapy, announces the validation of its patient blood cell *in vitro* selection platform for its new product candidates and the filing of a European patent application to protect this new selection method.

During a first phase III trial (BTT009) finalized in early 2017, the clinical efficacy of gp-ASIT+™, the ASIT biotech's most advanced product candidate in grass pollen-induced rhinitis, was statistically significantly confirmed¹. This efficacy was supported by the immunological results obtained by Dr. Mohamed Shamji (Imperial College London) on the group of patients treated at Ghent University Hospital by Prof. Claus Bachert that showed that gp-ASIT+™ has the ability to induce the allergic response regulatory mechanisms only one week after the end of the treatment².

Given these elements, gp-ASIT+™ has been tested *in vitro* on patients' blood cells by Dr. Mohamed Shamji and his team. *"These tests have allowed us to identify the immunological processes induced by gp-ASIT+™ and to bring to light an original mechanism of action that constitutes the signature of ASIT+™ products. Few pharmaceutical treatments have a mechanism of action that can be explained in such a compelling way"*, Dr M. Shamji commented.

Thierry Legon, CEO of ASIT biotech, added: *"The ASIT+™ immunological signature can now be used as a model for selecting our next product candidates for various indications, such as house dust mite rhinitis and allergies to foods such as peanuts, cow's milk and egg whites. As there is currently no good preclinical model for the screening new active ingredients for allergy immunotherapy, our new selection method represents a major asset for developing the best product candidates prior to launching clinical trials whose costs are substantial."*

¹ Short-course of grass allergen peptides immunotherapy over three weeks reduces seasonal symptoms in allergic rhinoconjunctivitis with or without Asthma: A randomized, multicenter, double-blind, placebo-controlled trial; publication Allergy, R. MÖSGES et al, Allergy, 7 March 2018; <https://doi.org/10.1111/all.13433>

² Short Course treatment of Subcutaneous Peptide Hydrolysate from Lolium Perenne - gp-ASIT+™ - suppresses Basophil Responses and induces IgG associated Blocking Antibodies: A RDPCT; M. Shamji oral presentation at EACII 2017; https://www.asitbiotech.com/images/gb/pdf/2017/M_Shamji_LPP_EAACI.pdf

This new ASIT biotech asset should allow us to reduce the development risks of our new product candidates and to increase the probability of success of our future clinical developments”.

The selection method developed by ASIT biotech has been claimed in a patent application filed in Europe on 30 April 2018. This patent safeguards ASIT biotech’s future developments and significantly enhances the Company’s partnership opportunities.

About ASIT biotech

ASIT biotech is a Belgian clinical stage biopharmaceutical company focused on the development and future commercialization of a range of breakthrough immunotherapy products for the treatment of allergies. Thanks to its innovative ASIT+™ technology platform, ASIT biotech is currently the only developer of AIT product candidates consisting of a unique mixture of highly purified natural allergen fragments in an optimal size selection. This innovation results in a short treatment, expected to improve patient compliance and real-life effectiveness. ASIT biotech’s product pipeline entails two novel ASIT+™ product candidates targeting respiratory allergy with the highest prevalence (i.e. grass pollen: gp-ASIT+™ and house dust mite: hdm-ASIT+™), that could significantly expand the current immunotherapy market. The Company believes that its innovative ASIT+™ platform is flexible and would be applicable across a range of allergies.

ASIT biotech has a headcount of 26 staff members, at its headquarters in Brussels and a laboratory in Liège, Belgium.

Further information can be found at www.asitbiotech.com.

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