

Superbugs: Exclusive Interviews Released with ABAC Therapeutics, Alchemy Biomedical and Oppilotech

SMI REPORTS: Expert insight into tackling the scientific, regulatory and economic challenges to combat antimicrobial resistance.

LONDON, ENGLAND, UNITED KINGDOM, November 22, 2017 /EINPresswire.com/ -- It is imperative for medical experts and drug discovery specialists to stay on top of the latest clinical advancements, developments and industry initiatives related to antimicrobial resistance. For this reason, SMi Group have gathered industry experts and government bodies to share their insights at the 20th annual conference on [Superbugs and Superdrugs](#) taking place on 19th and 20th March in London, UK.

SMi Group had the opportunity to sit down with three of the featured speakers to discuss some of the challenges they face in the industry and their strategies for overcoming them. The full interviews are available to read in the event [download center](#).



"The fight against multi-resistant organisms requires the implementation of several measures coordinated at a global level. The rational use of antibiotics is an important challenge that we have to improve. Although, the biggest challenge is the discovery of new antibacterial agents with a novel mechanism of action, that allows us to increase the therapeutic arsenal against organisms that are practically lacking therapeutic alternatives" said Domingo Gargallo-Viola, Chief Scientific Officer from ABAC Therapeutics. "To discover new antibiotics, we have to be visionaries, we have to end with the unproductive nightmare of the last 50 years, for which we have to define new TPPs and improve the productivity of discovery processes, applying disruptive strategies to reduce the failure rate, and therefore the high technical risk associated with the area of infectious diseases."

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The conference is focused and includes all relevant topics related to the discovery of new antimicrobial agents.”
ABAC Therapeutics

When asked Oppilotech's 'cell envelope model', a novel platform being utilised to discover and develop an internal pipeline of new antibacterial drugs, John George, Founder and Chief Scientific Officer from Oppilotech said “An accurate model allows us to identify nodes within the network which when inhibited, would weaken the outer membrane. The more permeable membrane would now allow compounds such as rifampin, erythromycin and kanamycin into the cell. This will impact AMR in a number of ways, firstly, it would allow these well established drugs to be used for the treatment of

gram negatives. Secondly, because of the weakened membrane the intracellular concentration of drug would be much higher than normal, minimising the risk of low level resistance. Finally, the active agents could be given a lower dose which would reduce any associated toxicities."

On harnessing a patient's immune system to combat drug resistant bacteria, David Brown, Managing Director and Founder of Alchemy Biomedical Consulting said, "Our immune system is protecting us every second of the day from attack by infectious micro-organisms. It is immensely powerful, far more so than any antibiotic. So, I believe that immune modulation will be far more powerful in beating antibiotic resistance than just inventing more antibiotics or using combinations of antibiotics. Yet there is little research in this area. Bacteria invade by usurping our immune system. Research in the last few years has identified the mechanisms bacteria use to achieve this, but that knowledge has not been picked up by the antibiotic / microbiology community. I want to begin the process of getting it into the mainstream via this conference."

SMi's 20th Annual conference on Superbugs & Superdrugs will take place on 19th & 20th March 2018 at the Copthorne Tara Hotel, Kensington in London, UK.

Further details including a full speaker line-up and detailed programme are available at www.superbugssuperdrugs.com

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About SMi Group:

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