各国科学家纵论信息菌素

World Scientists' Grand Explain to Pheromonicin[®] 《科技日报》2015 年 10 月 22 日,第九版,记者 吴红月

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"今天的论坛将会给人们带来许多期待",10 月 20 日早,在北京亦庄经济技术开发区丰大国际大酒店的电梯里,记者遇到了一位素不相识来自美国的科学家,她由衷地表达着对即将召开的会议所要讨论内容的激动和兴奋。On an elevator in the Fengda International Hotel (located at central metro area of Beijing Economic-technological Development Area), the journalist ran into an American stranger, a scientist who was attending the Workshop. "The Workshop today will bring people many new expectations", she sincerely expressed her thrill and excitement about the international event that she is walking in.

作为正在召开的北京生物技术和新医药产业促进中心承办的"第十九届北京国际生物医药产业发展论坛"的一个分会场,"第一届信息菌素类药物研究与应用研讨会"吸引了来自世界各地研究如何应对抗生素耐药难题的顶尖科学家、产业家的积极参与,他们的目标只有一个,论证信息菌素是不是人类应对细菌耐药——对人类健康严重威胁的一个重大突破,纵论这一成果将会给抗生素乃至医药产业带来哪些历史性的变化。As the foreword meeting of the 19th Beijing International Healthcare Industry Forum, the First International Workshop on the Pheromonicin Drug Development Platform has attracted world top scientists and industrialists who are researching on how to fight problems of antibiotic-resistance. In this Workshop, participants' sole mission is to validate if Pheromonicin is a major breakthrough of people versus drug-resistant bacteria, which is a serious threat to the healthy mankind. Let's discuss how this achievement will change antibiotic and further the medicine industry with a historical impact under making.

出席此次研讨会的有中国疾病预防控制中心副主任、中国科学院微生物所副所长、中国科学院院士高福;中国疾病预防控制中心徐建国院士;北京协和医学院李辉教授;英国生物制药业权威顾问、诺丁汉大学的理查德·詹姆斯教授;美国科学协进会戈登会议(药物耐受专题)发起人玛格丽特·莱利教授;美国牛津生物科学投资集团负责人、戈登会议(药物耐受)2016 分会主席曼维尔·纳维亚研究员;文特尔(诺贝尔奖得主、美国基因组计划创始人)研究所所长凯伦·纳尔逊博士;PnuVAX公司(世界级抗体和疫苗制药公司)总裁唐纳德·盖尔逊先生;美国史密斯学院罗伯特·多尔特教授等60余位学者。他们站在不同的学术研究和制药工业高度,对信息菌素创始人丘小庆教授的开拓性研究工作给予了高度的评价——"意义深远,世纪挑战、世界震动"。Participants of this Workshop included 60+ scientists such as: Gao Fu, a member of Chinese Academy of Sciences, deputy director of China CDC, deputy director of Microbiology Institute under Chinese Academy of Sciences; Xu Jianguo, a member of Chinese Academy of Sciences from China CDC; Prof. Richard James of Nottingham University, an influential scientific advisor of UK Pharmaceutical Industry; Prof. Margaret Riley who is Gordon Research Conference Drug-resistance Meeting's initiator and Chairperson; Dr. Manuel Navia, Oxford Science and Investment Group's executive and Gordon Drug-resistance

Meeting's Chairman of next term (2016); Dr. Karen Nelson, director of J. Craig Venter Institute (founded by the influential Nobel Laureate and US Gene Group Planner and Founder); Donald Gerson, CEO of a world top antibiotic and vaccine manufacturing company PnuVAX; Prof. Robert Dorit from Smith College; etc. They hold various views from academic research and pharmaceutical industrial angles, respectively appraised highly about Dr. Xiaoqing Qiu's creative research works, as "with long suspending meaning, a new century challenge, and impacting the world".

"信息菌素类药物的研究思路富有创新性,这次会议很有意义,虽不能至,心向往之,祝会议圆满成功!"国家"重大新药创制"科技重大专项技术副总师、上海市科协主席陈凯先院士从上海发来贺信给丘小庆教授,赞赏他的创新精神,并表达了对于信息菌素未来发展所寄托的希望。"The research path about Pheromonicin platform drug hosts a wealth of innovations. This Workshop is so important, though I cannot participate, but my whole heart is go for it now. Wish the meeting success!" This is from the congratulation letter, by Dr. Chen Kaixian, a member of Chinese Academy of Sciences, State Major New Drug Creation and Manufacture Program's deputy Technical General, Chairman of Shanghai Science Society. He appreciated Dr. Qiu's creative spirit, and expressed his hope and expectation for Pheromonicin's development.

"您选对了一个好项目"

"You have made a great choice!"

北京经济技术开发区管委会副主任绳立成在10月19日会议欢迎晚宴上对各国来宾表示, 四川大学丘小庆教授发明的信息菌素被认为在对抗抗生素耐药性方面作用显著,具有很大 的市场应用前景, 北京经济技术开发区在前期的研究过程中给予了大力的支持。作为北京 唯一的国家级经济技术中心,北京经济技术开发区希望打造出具有全球影响力的科技创新 中心和高端产业新区,在科技创新中成为全国的一个标杆。他说:"北京经济技术开发区未 来将全力支持信息菌素的深入研究和产业化,为其造福全人类做出积极的贡献。"Mr. Sheng Licheng, deputy director of Beijing Economic-technological Development Area (BDA)'s Administrative Committee had dialoged with world guests on the Welcome Banquet in evening of October 19th. He expressed BDA's recognition about Prof. Qiu's Pheromonicin invention and the Pheromonicin's significant effects in anti antibiotic-resistance, as well its large-scale market forecast. BDA has given the project's landing with a great support. As the sole State-class Economic-technological Center in Beijing vicinity, BDA wants to construct a center of science and technology innovation, and build up a top-rank industrial cluster, combined making global influences. BDA is hosting a new measure of China's nationwide science and technology creations, he said, BDA from now on will full-effort support Pheromonicin's in-depth research and industrialization, contributing create a health advance for the whole world.

詹姆斯教授诚恳地告诉绳立成副主任,"我衷心地祝贺你们的辨识,您选对了一个好项目,因为信息菌素事实上是一个具有深远和广阔冲击的非凡世界发明"。Prof. Richard James sincerely informed Director Chen, "I must congratulate you, as BDA has chosen a great project. Pheromonicin is an extraordinary world invention that is making long and broad impacts.

"与国际接轨的创新应该以'创'为主"

Common sense to the world, then a creation should bound for "creativity"

高福院士告诉科技日报记者,他一直在跟踪丘小庆教授的研究,尽管信息菌素研究在起始阶段存有争议,但这正是创新性研究常常遇到的"万事开头难"。他指出,信息菌素的研究是典型的自主原创项目,科学家在质疑中长期坚守自己的信念,在争议中不断改进和成长,体现了技术和科学并存的双重价值。Gao Fu, a member of Chinese Academy of Sciences, told the reporter: he has been tracking Prof. Qiu's research for long time. Although there were controversies during early stage of the Pheromonicin research, but it was what was known as "among ten thousand things, the most difficult is always one's beginning", the nature of innovative research. He pointed out, Pheromonicin research is a typical original creation. The scientist has for long persistently held his own principle against suspicions, and consistently improve and grow his achievements against controversies. Such process, showed combined value of technology and science here.

高福院士指出,昨天在北京中关村举行的"全国大众创业万众创新活动周",以推动实施创新驱动发展战略,展示"双创"成果,而今天在北京亦庄经济技术开发区进行信息菌素全球高端研讨会,丘小庆教授的研究正是"大众创业·万众创新"的一个典型代表。Gao Fu pointed out: what started in Zhongguancun yesterday was the "National Week of *Startups by the Masses and Innovations by Many*", a whole nation push by an Innovation-driven development strategy. Prof. Qiu's research is truly a typical representation of the *Startups by the Masses and Innovations by Many*".

"在'大众创业·万众创新'的新环境下如何创新?中国人一直缺少对新东西的主导,丘小庆教授的研究给了我们很好的回答,即与国际接轨的创新应该是以'创'为主",高福院士说。Gao said: "How do we create riding the new wave of *Startups by the Masses and Innovations by Many*'? It is what Prof. Qiu's research that has just answered; and it is what we Chinese have always missed, the guide to the new things. It is the international common sense of innovation, the creation should bound for "creativity".

来自北京协和医学院的李辉教授深入分析了信息菌素的科技创新特征后,他呼吁,国家有关部门应该对这类新技术的临床研究有一个全新的认识,希望更新观念,共同建立新的标准,促进原始创新。Prof. Li Hui from Beijing Union Hospital Medicine University, after in-depth analysis upon the innovative science and technologies surrounding Pheromonicin, has advocated: Relevant State administrations should give this new technology a completely new understanding regarding its clinic researches. We wish for newer concept, together build a set of suitable new standards, to encourage this original innovation.

"信息菌素将成为中国人民送给世界的另一个礼物"

"Pheromonicin is becoming the next gift to the world by Chinese people"

玛格丽特·莱利教授在会议现场告诉科技日报记者,"我们之所以给信息菌素这一科技成果非常高的评价,原因在于病菌、病毒、真菌、癌症药物均出现了耐药问题,丘小庆教授的科技创新将根本改变这种局面。信息菌素作为一个科技平台可以解决不同病原体的耐药

问题,用一个方法解决所有的问题,这是一种哲学思维模式的变化"。Prof. Margaret Riley told *Science and Technology Daily* on site the Workshop: "We do give a very high appraisal to Pheromonicin's achievement, the reason lays on the present fact that all drugs anti bacteria, virus, fungi, cancers, etc. are facing serious drug-resistant problem. Prof. Qiu's innovation in both science and technology will completely turn the bad situation around. Pheromonicin is a platform of science and technologies, it cures different sources of diseases with on common solution.

她举例说,全球有 1/3 的人类一生会感染上结核,而且感染具有普遍性,到晚期结核病几乎无药可治。以往我们投入 10 亿美元,15 年时间去寻找一个新药,得到的结果却常常是 99%失败。但信息菌素目前的研究已表明,其对结核疾病甚至真菌疾病都具有疗效,能够在一个很广泛的范围里解决以往许多药物都解决不了的问题。这个成就非常了不起,将引领世界制药产业的一次新的浪潮。She brought up an example: 1/3 of mankind worldwide are to be infected by TB in their entire life expand. This is a very popular infection. And there is no medicine can save a deeply infected patient. On the other hand, we are all familiar the scale of cost for a new anti-infection drug: USD1B investment and 15 years span would be needed for one new drug development. However the successful rate for a good new drug is only 1%. But Pheromonicin research has already indicated its effective from drug-resistant TB to non-cure fungi infections, solving a whole scope of infections that many drugs cannot achieve at all now.

曼维尔·纳维亚研究员对此观点也表示认同。他自己研发了五种药物,有三种已经上市,每一种都具有上百亿美元的市场份额。Dr. Manuel Navia also expressed his agreement with Dr. Riley's. He has a track record of 4 new drug's development, 3 already in market, each sales in scale of hundreds millions USD.

"当你研究一种新药的时候,有上千条研究途径,最终能有一、两条途径达到预期结果就已经很成功了,丘小庆教授创造的信息菌素平台以模块化方式构建不同的信息菌素,以直接攻击方式杀死细菌,原理上与传统抗生素的工作模式不同,可以同时覆盖上千上万种解决方案,既缩短了研发时间,又节省投入。" When you research on one new drug, there are thousands options of research approaches. At end only one or two can get the targeted result, that is called a success. While the Pheromonicin Platform that Prof. Qiu invented can configure multiple and different Phromonicin drugs, can direct attack and kill bacteria. In principle and function it is already very different from conventional antibiotics. This platform can cover thousands and tens thousands of solutions with one formula, save a lot time, and reduce a lot of repeating investments.

纳维亚研究员还强调,对于全球的制药工业界来说,信息菌素技术提供了一种像导弹一样的解决方案,传统抗生素往往需要几十万个分子才能杀死一个细菌,而一个信息菌素分子就能杀死一个细菌,因此信息菌素拥有传统抗生素难以比拟的杀伤力和靶向性。Dr. Navia also emphasized: to the world pharmaceutical industries, Pheromonicin provided a solution like a guided missile power. Conventional antibiotic may need tens of thousands of molecules together getting effect upon one bacteria cell, but Pheromonicin is capable to realize "One Molecule – One kill".

"中国正在发生巨大的变化,中国人民表现出了巨大的勇气和自信,中国今天对于全球经济发展的贡献是十分巨大的,刚刚获得诺贝尔奖的屠呦呦研究员所创造的就是全球所公认的科学创新成就。"纳维亚研究员说,"我相信,信息菌素将成为中国人民送给世界的另一个礼物。" "Today China is carrying out a huge transformation. Chinese people have

performed with huge brave and confidence. Besides China's huge contribution to the world's economic development, China just has been recognized for scientific achievement to the world (the recent Nobel Price given to Ms. Tu Yuyu). I believe Pheromonicin is becoming the next great gift to the world by the Chinese people."

http://www.wokeji.com/jbsj/jb/201510/t20151022_1816797.shtml