

Covid19 IP realities in biomedical industry-academic partnerships

新冠疫情背景下生物医学产业-学术合作伙伴关系中的知识产权现状

11 December 2020 2020年12月11日

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Negative COVID-19 realities 新冠疫情的消极影响



- Years 2020-2021 are about social distancing 2020-2021年是关于社会距离的
- Networking, collaboration, pitching are becoming much more complicated网络,协作,推销变得越来越复杂
- In certain countries there is a growing emphasis on localization, nationalism, etc.在某些国家/地区,人们越来越重视本地化,民族主义等
- The end result is a much complicated and risky echo-system for public private partnerships. 结果使公私合作伙伴关系的系统非常复杂且风险很大。



Positive COVID-19 realities

Clinet China intellectual Property Management Network

新冠疫情的积极影响

- Clear demonstration of the benefits of public-private partnerships (Moderna-NIH, Astra-Zeneca-Oxford)明确展示公私伙伴关系的好处(如Moderna-NIH, 阿斯特拉-泽/内卡-牛津的合作模式)
- Enhance ability to expedite lab-research into marketable solutions
 - 提高实验室研究可销售解决方案的能力
- The power of the private market in being a driver for innovation is clearly visibile 私人市场作为创新驱动力的力量显而易见
- Mate Benefits of collaboration of with multinational companies.与跨国公司合作的好处。
- ◆ The 4th Industrial Revolution is now a reality 第四次工业革命现已成为现实





Benefits of academia / industry collaboration 学术界/工业界合作的优势

- Transformation of academic research into new life saving treatments and medicines将学术研究转化为新的生命救治方法和药物
- Faculty obtains access to state-of-the-art technologies, while industry benefits from ingenuity of academic researchers.学院获得了最先进的技术,而工业界则受益于学术研究人员的独创性。
- Creation of new companies创立新公司
- Infrastructure for economic growth, employment and investment经济增长,就业和投资的基础设施
- k Royalty income, to expand research capabilities版税收入,以扩大研究能力



TITLE

INDUSTRY – ACADEMIA: COLLABORATION AND CONFLICT



工业界-学术界:合作与冲突

ACADEMIA学术界

- -Research leads to knowledge, publication研究产出知识, 出版物
- -Coal: Be the first to publish目标:第一个发布-Freedom of research and publication into the public domain研究和出版进入公共领域的自由-Academic credit, dissemination of information学术信用,信息传播

INDUSTRY工业界

-Research leads to development of new products推动新产品研发

-Goal: protect patent /product

目标:保护专利/产品

-Directed research and secrecy

指导研究和保密

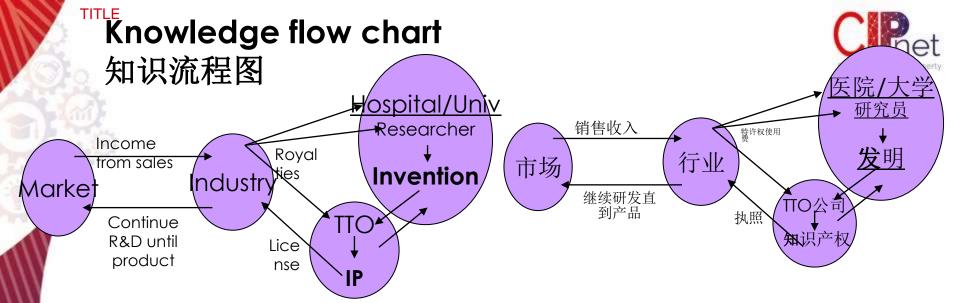
-Bring product to the market, create sales & profits

将产品推向市场,创造销售和利润

Gap can be bridged by mutual understanding of the needs:相互了解需求可以弥合差距:

- -Academia needs funds for research and income from royalties学术界 需要研究经费和特许权使用费收入
- -Industry needs new products工业界-需要新产品
- Successful collaboration leads to Commercialization of new and useful technologies via Licensing Agreements, creation of new Startup Companies

成功的合作将通过许可协议,将新的有用技术商业化,并创建新的初创公司。 Meir P. Puggtch 2014



A study tracing back the origins of 32 major innovative drugs found that the contribution to their development of industry (53%) and non-industry (47%) is roughly equal ...

一项追溯32种主要创新药物起源的研究发现,对其工业(53%)和非工业(47%)的发展贡献大致相同四

[1] Chin-Dusting, Jacques Mizrahi, Garry Jennings and Desmond Fitzgerald, Finding improved medicines: the role of academic-industrial collaboration. *Nature Reviews Drug Discovery*, **4**, 891-897 (2005)



TITLE

Creating an IP portfolio创建知识产权组合



- Understand the nature of the asset (technology, artistic creation, brand..., specific use, platform use, a product, a process....)了解资产的性质(技术、艺术创作、品牌、特定用途、平台用途、产品、过程...)。
- Understand your own capabilities (budgets, size, level of knowledge, complementary assets, etc) 了解自己的能力(预算、规模、知识水平、互补资产等)
- Define the IP asset as early as possible (each IP asset as a micro-cosmos)尽早界定知识产权资产(每个知识产权资产都是一个微观世界)
- Prioritize the IP assets and identify the "front runners" 优先考虑知识产权资产并确定"领先者"
- Manage the assets systematically (and on different levels legal, commercial, financial, R&D), etc.系统地(在法律、商业、金融、研发等不同级别)管理资产等。



These will increase your chances for a good return on investment 这些将增加您获得良好投资回报的机会

The Paradox: it is still likely that one success will pay for all the failures

悖论: 所有失败将为一次成功付出代价



The licensing option许可



Licensing-vs. licensing-out 许可 vs.许可证发放/授权

When and why should we consider to license and what

Up stream vs. down-stream licenses 何时/为什么要考虑知识产权许可

Basic terms of the license许可基本条款

Exclusive vs. non exclusive license独家与非独家许可

The associated know-how相关的专业知识

Royalties特许权使用费



Additional models for the exploitation of IPRs利用知识产权的其他模型



The Joint Venture (including spin-offs)合资企业(包括分拆)

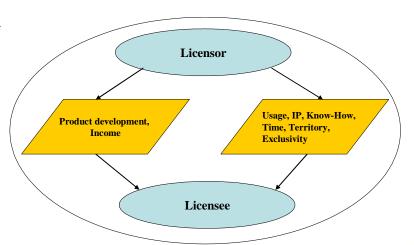
Strategic alliances (including patent pools and cross-licensing)战略联盟(包括专利联盟和交叉许可

Franchising特许经营

Sale of IPRs知识产权销售

Collaborative R&D协同研发

Consultancy and services咨询和服务







Concluding thoughts 小结

- Covid-19 emphasized the power of PPPs 新冠疫情强化了政府和社会资本合作模式
- IP remains both a vehicle for commercialization and a driver for growth
 - 知识产权既是商业化的手段,也是持续增长的推动力
- Mapping and protecting institutional IP is more important 知识产权的布局和保护很重要
- So is the ability to open up to international players to secure the mutual beneficial sharing and exploitation of knowledge products.
 - ▲应向国际参与者开放以确保知识产品的互利共享和开发的能力

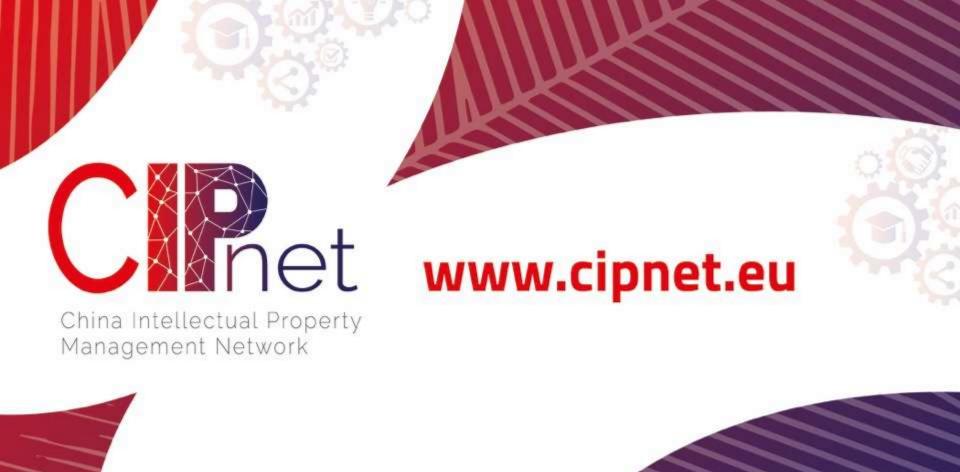






Thank you!







CPriet is co-financed by the European Commission through the Enamus+ Programme, under contact, mumber 596:103-EPP-1-2017-1-TH_EPPINA2-CBHE-IP. The contents of this publication reflect only the views of the authors, and the European Commission cannot be held responsible for any use which may be made of the information contents therein.