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Technology Transfer in Biotechnology*

"Knowing is not enough, we must apply. Willing is not enough, we must do."

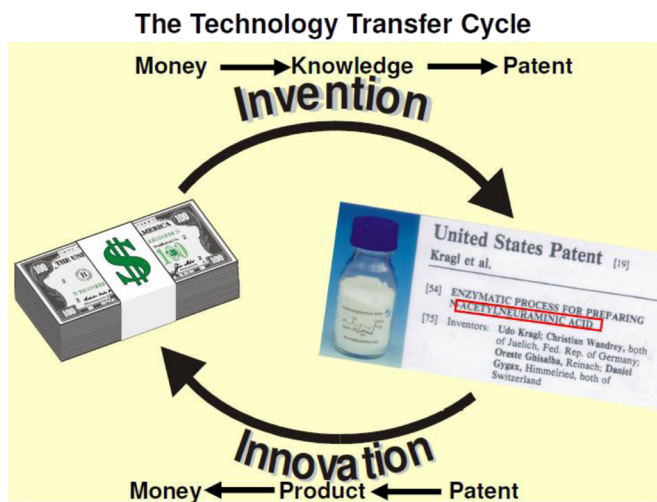
Johann Wolfgang von Goethe

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Abstract

Biotechnology is by definition a field of multi disciplinary integrated *application*. This includes transfer from lab to production. The increase of knowledge in biotechnology is so rapid, that even results from basic research can find the way to application. For technology transfer we need invention and innovation executed in a cycle.



* Kurzfassung des Vortrags, der am 12.04.2019 vor der Plenarversammlung der Braunschweigischen Wissenschaftlichen Gesellschaft gehalten wurde.

Sometimes the established chemical and pharmaceutical industry has prejudices versus new findings in biotechnology (too complicated, too slow, too diluted, only water as solvent, instable catalyst etc.). So there are chances to form start up companies.

While formerly (wild type) isolated enzymes were used as catalysts nowadays “engineered” enzymes and “designer bugs” come into play. Also fermentative processes using non natural (engineered) pathways are increasingly used. For such developments ultra high throughput screening of strains and microscale process development (on a single cell level) are very important.

Technology transfer examples will be given in cooperation with the established industry as well as by means of start up companies.