

Assemblase Pty Ltd

Making slow reactions less slow





Inefficiencies

Cost Sustainability Time









Inefficiencies

Cost Sustainability Time

Increased yield

Less Waste

Faster reaction rate & product formation

By-pass slow limiting steps

Multiple reactions sites can be reduced to one

Products and Services



Assemblase Scaffold



Highly adaptable to any enzyme



Self Assembling



Stable



Sustainable



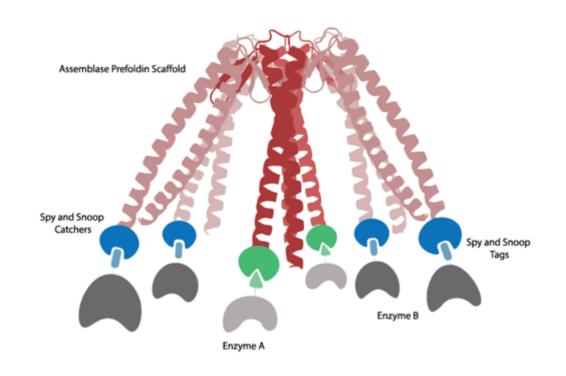
Thermally stable



Reduces accumulation of intermediaries by co-localisation



Multi step reactions instantaneous by substrate channelling



Case Study - Paclitaxel



The Assemblase scaffold makes Paclitaxel synthesis 6x more efficient

Paclitaxel is a microtubule inhibitor, stopping cell division which leads to cell death



Baccatin III pathway is environmentally friendly



F2 PBS Status ensures all manufactures will incorporate Assemblase



Paclitaxel is used to create other pharmaceuticals



Assemblase production method recycles waste products

Global Sales	\$200,000,000 per annum
Australian Sales	\$11,000,000 per annum
Manufacturers Australia	6
PBS Classification	F2
Precursor	Abraxane, Taxoprexin, Opaxio
Use	Ovarian cancer, cervical cancer breast cancer cancer and drug eluting stent coating

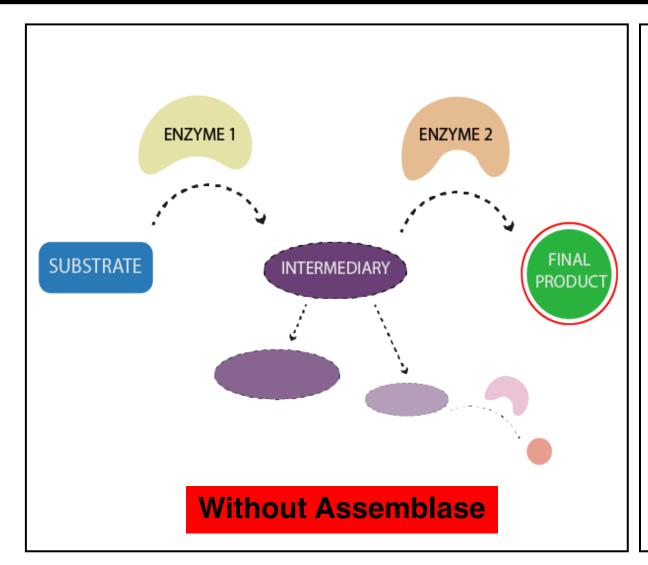
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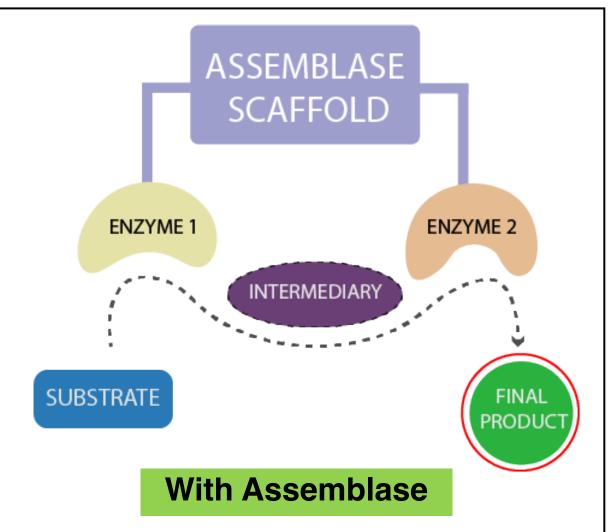
http://www.pbs.gov.au/pbs/search?term=PACLITAXEL&analyse=false&search-type=medicines



Assemblase - How It Works?







Competition



Name	Assemblase	ProSci	Deltagen	Enzyme Solutions	Novozymes
Multi Enzyme	~	X	X	X	X
Scaffold Structure		X	X	X	×
Sustainable	/	X	/	~	~
Personalised Service	~	X	X	/	X
Consumer Goods	~	X	X	~	~
Food and Perishables	/	X	/	/	~
Textiles	~	X	X	/	~
Waste Treatment		X	X	/	~



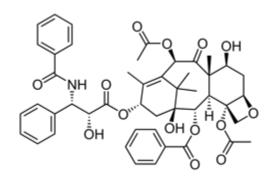
The enzyme market is \$5.8 Billion annually estimated to reach \$6.4 Billion by 2020

<u>Source:</u>

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4991975/

The Market Continued





Assemblase will initially enter the Australian market through Paclitaxel production

Assemblase can be applied to:



Therapeutics



Consumer goods



Textiles



Industrials

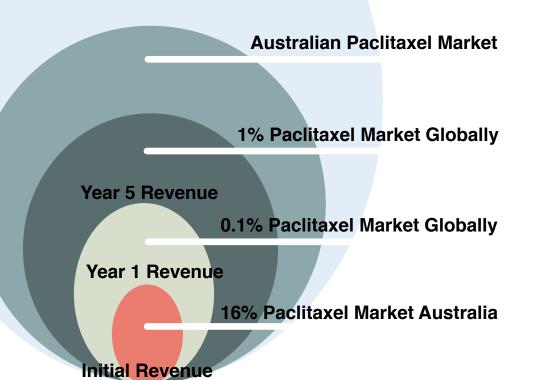


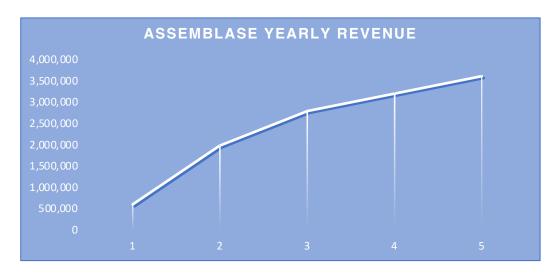
Bio remediation

Finances

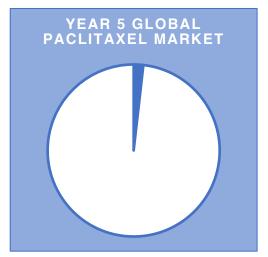












Expansion





Outside Paclitaxel

Expansion into therapeutics and other biochemical reactions.

- Increase market share
- mitigating diversification risks



Asia Pacific

Upon successful establishment in the Australian market movement within the geographic region will ensue.

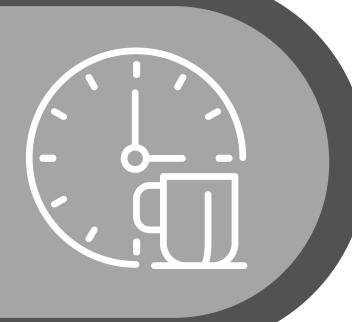
- Increase market share
- Exploit local knowledge and culture



Acquisitions

Expand to Europe and America using these companies as a special vehicle for sales.

- Mitigate cultural fit risk
- Mitigate regulation risks



Endorsements



Validation of Science



















Consulted & Expressed Interest:



















Thank You



Let's allow scientist to focus on 'research' and not wait times



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