

Replenishing the pipeline: A quantitative approach to optimising the sourcing of new projects



Citation for the original published paper (version of record):

Wiklund, S., Önnheim, M., Ytterstad, M. (2023). Replenishing the pipeline: A quantitative approach to optimising the sourcing of new projects. Pharmaceutical Statistics, In Press. http://dx.doi.org/10.1002/pst.2316

N.B. When citing this work, cite the original published paper.

Wiley Online Library

Page 1 / 19 🗸





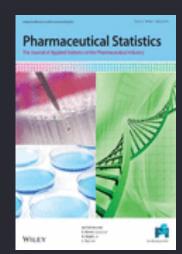




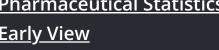




Details



Pharmaceutical Statistics Early View





Replenishing the pipeline: A quantitative approach to optimising the sourcing of new projects

View article page

Stig Johan Wiklund, Magnus Önnheim, Magnus Ytterstad





© 2023 The Authors. *Pharmaceutical Statistics* published by John Wiley & Sons Ltd.

https://doi.org/10.1002/pst.2316 🔀



1539-1604

1539-1612



 \equiv

Received: 5 October 2022

Revised: 17 May 2023

Accepted: 22 May 2023

DOI: 10.1002/pst.2316

MAIN PAPER



Replenishing the pipeline: A quantitative approach to optimising the sourcing of new projects

Stig Johan Wiklund¹

Magnus Önnheim²

Magnus Ytterstad¹

Correspondence

Stig Johan Wiklund, Captario, Göteborg, Sweden.

Email: stig-johan.wiklund@captario.com

Abstract

Large pharmaceutical companies maintain a portfolio of assets, some of which are projects under development while others are on the market and generating revenue. The budget allocated to R&D may not always be sufficient to fund all the available projects for development. Much attention has been paid to the selection of optimal subsets of available projects to fit within the available budget. In this paper, we argue the need for a forward-looking approach to portfolio decision-making. We develop a quantitative model that allows the portfolio management to evaluate the need for future inflow of new projects to achieve revenue at desired levels, often aspiring to a certain annual revenue growth. Optimisation methods are developed for the presented model, allowing an optimal choice of number, timing and type of projects to be added to the portfolio. The proposed methodology allows for a proactive approach to portfolio management, prioritisation, and optimisation. It provides a quantitatively

¹Captario, Göteborg, Sweden

²Fraunhofer-Chalmers Centre, Göteborg, Sweden