Parameters

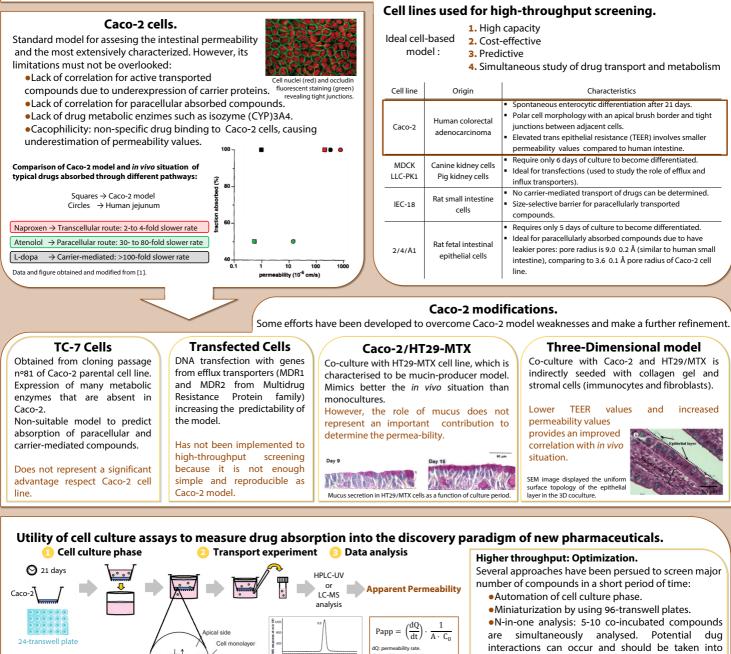
FOR INTESTINAL PERMEABILITY

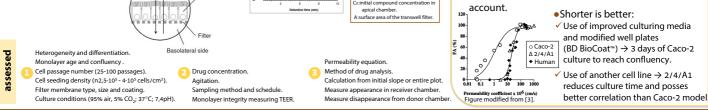
Huguet Ninou, Anna

Universitat Autònoma de Barcelona (UAB), Bellaterra 2013

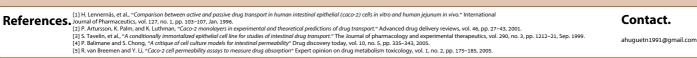
## Role of intestinal absorption assays in drug development.

Powerful methods have recently been developed for the combinatorial synthesis of organic compounds as have methods for high-throughput screening of pharmacological activity. As a result, large number of potential drug candidates are being obtained. This has increased the demand of screening methods for oral drug absorption during preclinical trials, suggesting an interest in cell culture models for experimental prediction of intestinal permeability.





Conclusion. Although intestinal aborption is a well known physiological process, a perfect model wich mimics perfectly its properties does not exist. However, Caco-2 model can be used to identify drugs with potential absorption problems, and also to select drugs with optimal passive absorption characteristics from series of pharmacologically active compounds generated. Then, the principal challenge to reach an improved scenario is to optimize cell-based permeability assays by reducing costs and enable even greatrer applicability to drug discorvery programs.



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