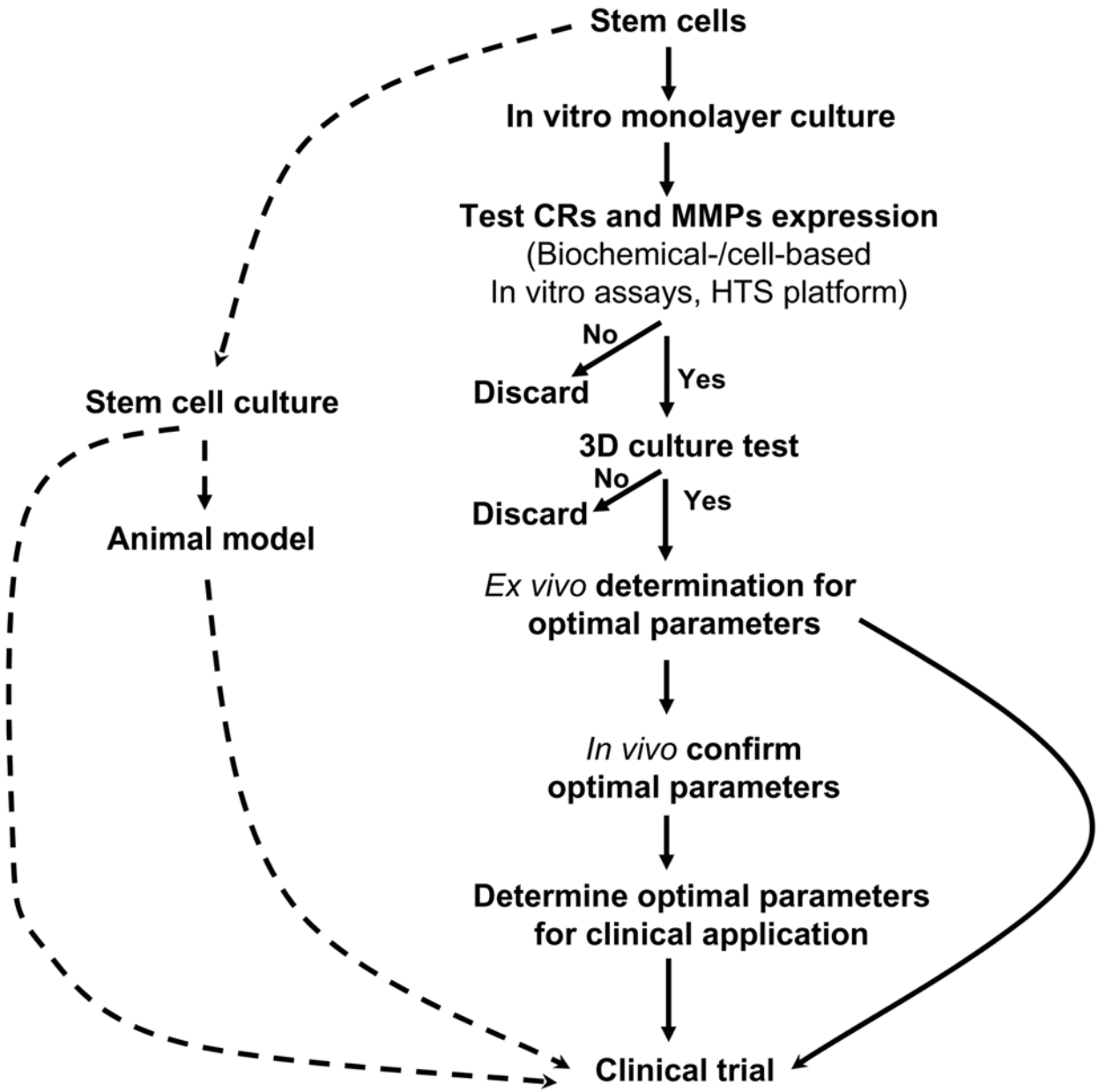
Stem cells
In vitro monolayer culture
Test CRs and MMPs expression
(Biochemical-/cell-based
In vitro assays, HTS platform)
No
Discard
Yes
3D culture test
No
Discard
Yes
Ex vivo determination for
optimal parameters
In vivo confirm
optimal parameters
Determine optimal parameters
for clinical application
Clinical trial
Stem cell culture
Animal model