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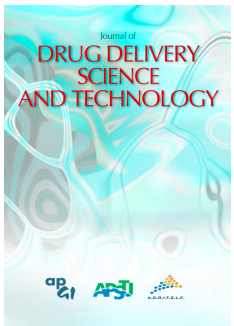

Mimicking the contractions of a human stomach and their effect on pharmaceuticals

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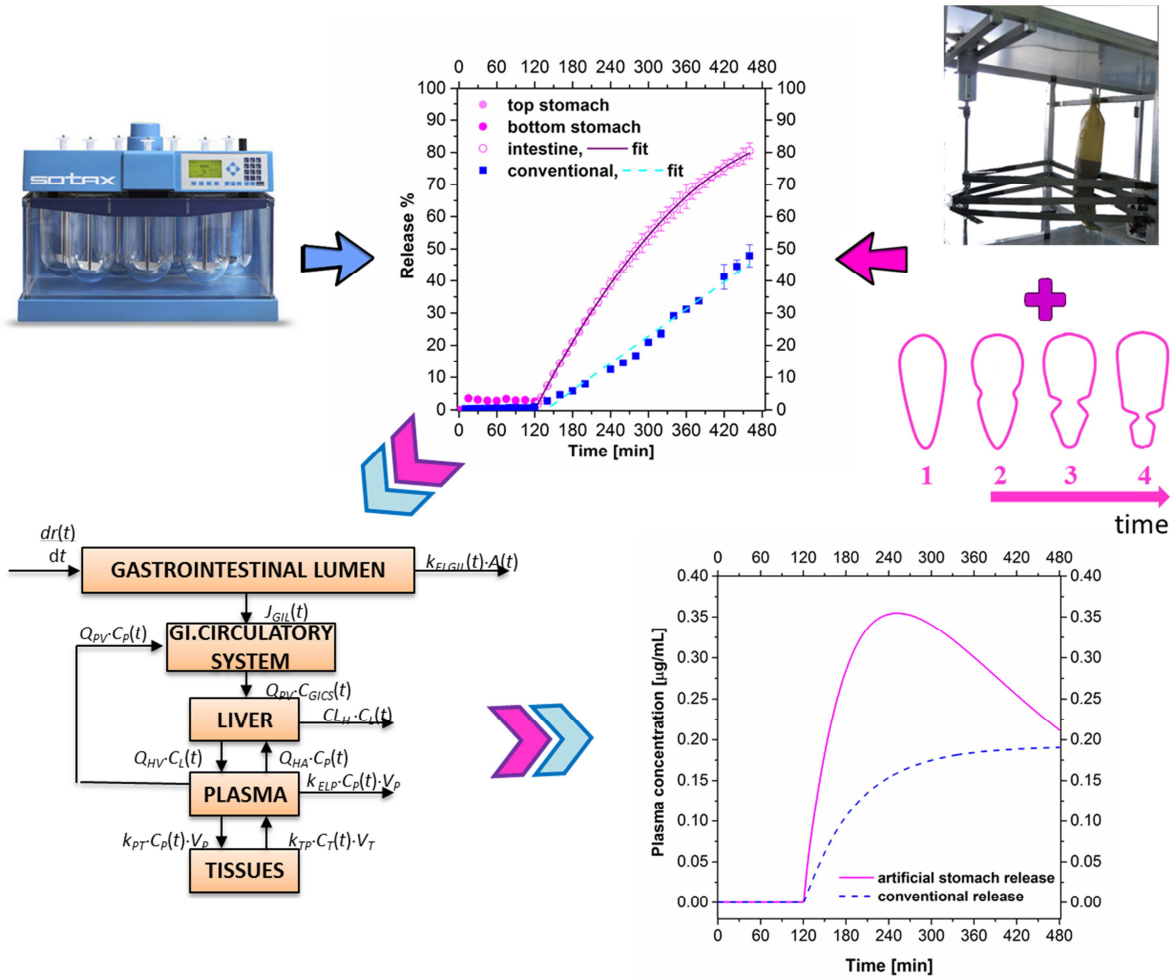
sotax
top stomach
bottom stomach
intestine, fit
conventional, fit
Release %
Time [min]
1
2
3
4
time
dr(t)/dt
GASTROINTESTINAL LUMEN
$k_{ELGII}(t)\cdot A(t)$
$J_{GIL}(t)$
$Q_{PV}\cdot C_P(t)$
GI.CIRCULATORY SYSTEM
$Q_{PV}\cdot C_{GICS}(t)$
LIVER
$CL_H\cdot C_L(t)$
$Q_{HV}\cdot C_L(t)$
$Q_{HA}\cdot C_P(t)$
PLASMA
$k_{ELP}\cdot C_P(t)\cdot V_P$
$k_{PT}\cdot C_P(t)\cdot V_P$
$k_{TP}\cdot C_T(t)\cdot V_T$
TISSUES

Plasma concentration [µg/mL]
Time [min]
artificial stomach release
conventional release

ACCEPTED

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