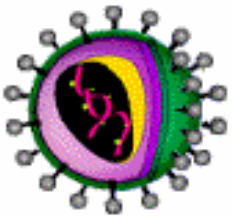


Topical Microbicides to Prevent HIV Transmission: The View From the Mountain Top

Characteristics of an Ideal Microbicide

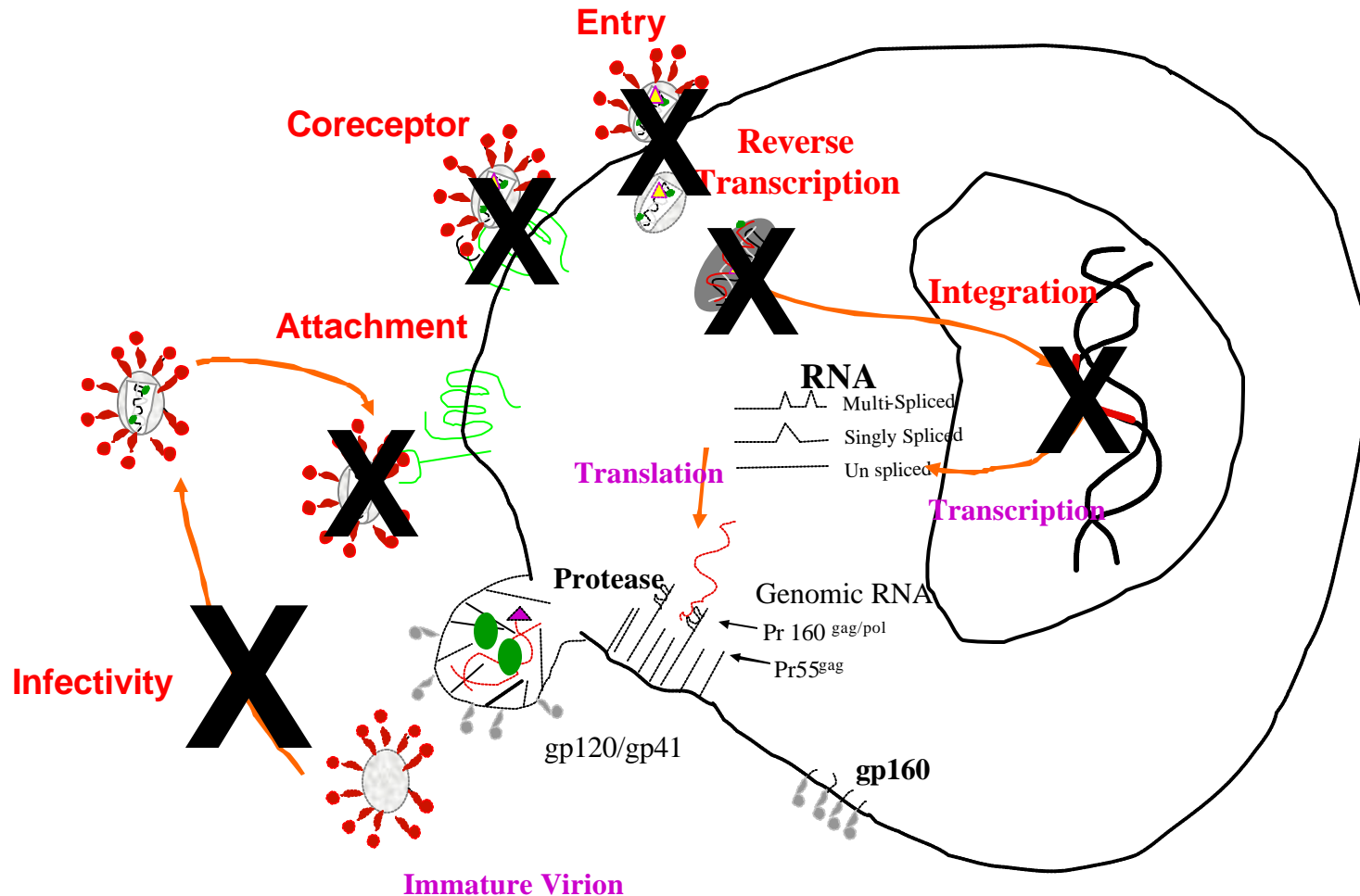
Acceptable	Unacceptable
<p>Safety</p> <ul style="list-style-type: none"> ➤ One to six or more times daily ➤ Long periods of time ➤ Reproductive safety 	<ul style="list-style-type: none"> ➤ Cause epithelial disruption ➤ Induce inflammation ➤ Absorbed systemically
<p>Effect</p> <ul style="list-style-type: none"> ➤ Fast ➤ Long duration ➤ Irreversible 	<ul style="list-style-type: none"> ➤ Unstable ➤ Interval between application and coitus short (before or after)
<p>Acceptability</p> <ul style="list-style-type: none"> ➤ Formulation stability ➤ Acceptable to both sex partners ➤ Unobtrusive/ pleasurable 	<ul style="list-style-type: none"> ➤ Messy, leaky ➤ Burning, itching ➤ Cumbersome ➤ Odor/taste?/ color? ➤ Applicator trauma/discomfort
<p>Availability</p> <ul style="list-style-type: none"> ➤ Contraceptive/non-contraceptive formulations ➤ Low cost ➤ Unlimited access ➤ Ease of scale-up and GMP production 	<ul style="list-style-type: none"> ➤ Costly for use and/or manufacturing ➤ Regulated distribution (MD or health official) ➤ Requires special storage/transport
<p>Uses</p> <ul style="list-style-type: none"> ➤ Vaginal and/or rectal ➤ Unlimited use ➤ Compatible with condoms and other STI preventatives 	<ul style="list-style-type: none"> ➤ Complicated use
<p>Activity</p> <ul style="list-style-type: none"> ➤ Effect STIs in ejaculate and cervicovaginal secretions ➤ Broadly active: HIV + other STIs 	<ul style="list-style-type: none"> ➤ Affect vaginal (rectal) microbial ecology ➤ Enhance growth of STIs or secondary pathogens





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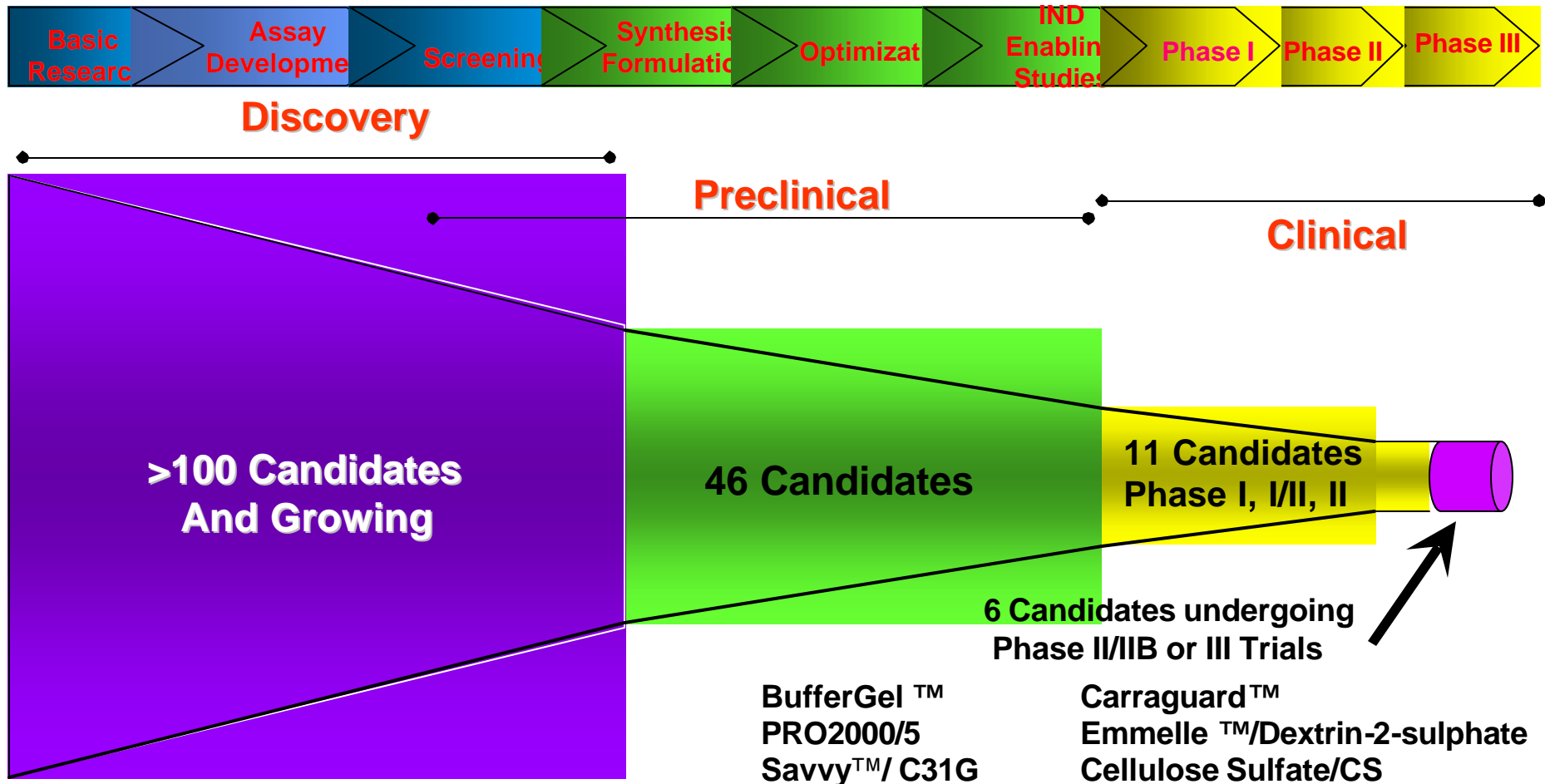
There are Many Potential Targets in the HIV Replication Cycle





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What's Out There With and After HPTN 035?



Information derived from the monthly "Pipeline Update" by the Alliance For Microbicide Development

