



Microbicide Products in Development by Primary Mechanism of Action (May 2003)

Category	Products	Sponsor/Investigator
Acid Buffers (2)	<ul style="list-style-type: none"> • Acidform™ • BufferGel™ 	<ul style="list-style-type: none"> • Program for the Topical Prevention of Conception and Disease (TOPCAD), Global Microbicide Project (GMP) • ReProtect LLC
Vaginal Defense Buffers (8)	<ul style="list-style-type: none"> • D2A21 (antimicrobial peptide) • Defensins • Lactobacillus crispatus suppository (CTV-05) • Lactobacillus- expressing CD4 (MucoCept™) • Hydrogen peroxide • Lactin Vaginal Capsule • Protegrins • Retrocyclin (RC-100) 	<ul style="list-style-type: none"> • Demegen Inc. • Mt. Sinai Medical Center • Osel, Inc., The Medicines Company, University of Pittsburgh/Magee Women's Hospital • NIH/NIAID, Osel Inc. • FemCap Inc. • University of Pittsburgh/Magee Women's Hospital, The Medicines Company • University of California at Los Angeles • University of California at Los Angeles
Surfactants (9)	<ul style="list-style-type: none"> • Alkyl sulfates and related compounds (Sodium dodecyl sulfate, ammonium dodecyl sulfate, etc.) • Benzalkonium chloride (BZK) • C-31G (Savvy™) • Chlorhexidine zinc gel (ZnG-Gel) • N-halamine derivatives (polymeric biocides) • OPT-388 • OTC Lubricants • Synthetic milk lipids • Z-14 (acyl-carnitine analogue) 	<ul style="list-style-type: none"> • Pennsylvania State University College of Medicine, Renaissance Scientific • Biofem Inc. • Biosyn Inc. • Viratech Pharmaceuticals Inc. • Auburn University • OPTIME Therapeutics, NYS Institute for Basic Research in Developmental Disabilities, Magee Women's Research Institute • Biofilm Inc., University of Texas Medical Branch • New York State Institute for Basic Research, University of Pittsburgh/Magee Women's Hospital, Pennsylvania State University College of Medicine • Virginia Polytechnic Institute and State University
Adsorption Inhibitors (8)	<ul style="list-style-type: none"> • Carrageenan (Carraguard™) • Cellulose sulfate (UsherCell™) • Dextrin-2-sulfate (Emmelle™) • Heparan sulfate (Cholic Acid) • Naphthalene sulfonate polymer (PRO2000) • Polyanionic GP120 Inhibitor • Polystyrene sulfonate (PSS) • Sulfonated hesperidin 	<ul style="list-style-type: none"> • Population Council • GMP, Organichem, Polydex Pharmaceuticals Ltd., TOPCAD • Imperial College of Medicine, Medical Research Council of the United Kingdom, M-L Laboratories • Cincinnati Children's Hospital Medical Center • Indevus Pharmaceuticals Inc. • University of Maryland Biotechnology Institute • GMP, TOPCAD • NIPER, Panjab University, TOPCAD
Entry and Fusion Inhibitors (21)	<ul style="list-style-type: none"> • AOP-Rantes • Betacyclodextrin (CD) • CCR5 inhibitors • Chimeric protein with soluble CD4 (CD4-17b) • CXCR4 • Cyanovirin-N • Dimandelic Acid Ether (SAMMA) 	<ul style="list-style-type: none"> • University of Maryland-Baltimore, Institute of Human Virology • Johns Hopkins University School of Medicine • Cornell University Weill Medical College • NIH/NIAID • Rega Institute • Biosyn Inc. • GMP, Mount Sinai Medical Center, TOPCAD

Source:

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<p>Entry and Fusion Inhibitors (cont.)</p>	<ul style="list-style-type: none"> • Human monoclonal antibodies (C2F5, C2G12, C4E10) • K5-N, OS(H) • Liposome-generated artificial membranes • Phthalocyanines (CuPcS, NiPcS, PcS) • Plantibodies (HX8, HIV plantibodies, and plantibody hybrids) • Polybiguanides • Polymethylene hydroquinone sulfonate (PMHS) • Porphyrins • PSC-Rantes • Soluble DC-Sign • SPL7013 (Dendrimer-based Nanostructure) • T20 • Thrombospondin (TSP1-derived Peptides) • Transgenic plant extracts containing recombinant Cyanovirin 	<ul style="list-style-type: none"> • Polymun Scientific • San Raffaele Scientific Institute/Glycores 2000 s r l • University of Arizona • Emory University, Georgia State University • Epicyte Pharmaceutical Inc. • Pennsylvania State University College of Medicine, Novaflux Technologies, Inc. • GMP, NIPER, TOPCAD, Zandu Pharmaceutical Works • Emory University, Veterans' Administration Medical Center/Decatur • University of Geneva, Scripps Research Institute • Cornell University Weill Medical College • Starpharma Limited • Roche Pharmaceuticals, Trimeris • Cornell University Weill Medical College • Guy's Hospital, London/St. George's Hospital Medical School, London
<p>Replication Inhibitors (6)</p>	<ul style="list-style-type: none"> • (+)-Calanolide A, (-)-Calanolide B • DABO (MC1220) • Dapivirine™ (TMC-120) • Tenofovir (PMPA) • UC-781 • WHI-05, 07 	<ul style="list-style-type: none"> • SRI International, DeCODE Genetics, National Cancer Institute • Idenix Pharmaceuticals, University of Cagliari Sardegna-Italy • Institute of Tropical Medicine, Tibotec • Gilead Sciences • Biosyn Inc. • Parker Hughes Institute
<p>Multiple Mechanisms (7)</p>	<ul style="list-style-type: none"> • Antiviral proteins (GAP31, MAP30) • Cellulose acetate phthalate (CAP) • Doxovir • Monocaprin with PAVAS • Napthalene urea derivative • Thermoreversible Gel (Invisible Condom™) • Topical estrogens 	<ul style="list-style-type: none"> • New York University School of Medicine • New York Blood Center, Dow Pharmaceuticals • Redox Pharmaceutical Corporation • University of Iceland, University of Leuven/Rega Institute • Mt. Sinai Medical Center • Laval University • Tulane University
<p>Uncharacterized Mechanisms (5)</p>	<ul style="list-style-type: none"> • Alatavir • Kolaviron • Pokeweed Antiviral Protein (PAP) • Praneem Polyherbal Vaginal Tablet • Tinosporin 	<ul style="list-style-type: none"> • New York University • New York University • Parker Hughes Institute • Institute of Research in Reproduction • New York University

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