Comparison of VUMIE Online Activities with Micro Digital Media 3/e Content

Activities in rows shaded gray are in development at this time.

A	ctivities built into VUMIE Online software	MDM 3/e Equivalent for use with the
		VirtualUnknown Microbiology 2012 edition
Section	1 – Basic Microbiology Lab Skills	
•	VUMIE Online Tour	1. The Virtual Lab
•	Lab Safety	New
•	Ubiquity	New
•	Scavenger Hunt – Microbes Around Us	New
•	Bacterial Growth	5. Bacteriological Growth Media and Growth Patterns
•	Scavenger Hunt – Controlling Growth	New
•	Colony Morphology – Coming Soon!	New
•	Types of Growth Media	5. Bacteriological Growth Media and Growth Patterns
•	Aseptic Tube-tube Transfers	2. Aseptic Tube-to-Tube Transfers
•	Streaking Plates	3. Aseptic Tube-to-Plate Transfers
•	Making Lawns	3. Aseptic Tube-to-Plate Transfers
•	Scavenger Hunt – Microbial Anatomy	4. Bacterial Cell Anatomy and Arrangements
•	Gram Stains	New
•	Microscopy	New
•	Anatomy, Shape, Arrangements – Coming Soon!	4.Bacterial Cell Anatomy and Arrangements
Section	2 – Testing and Identification	
•	Selective & Differential Media	5. Bacteriological Growth Media and Growth Patterns
		6. Controlling Microbial Growth
•	Indicators and Reagents	5. Bacteriological Growth Media and Growth Patterns
		6. Controlling Microbial Growth
•	Scavenger Hunt – Microbial Physiology	New
•	Sugar Fermentation Tests	12. Sugar Fermentation Tests
•	Amino Acid Utilization	13. Metabolism of Amino Acids as Nutrients
•	Video-based Tests	
	• Catalase	16. Catalase Test
	• Coagulase	New
	 Gelatinase Oxidase 	New 9. Oxidase and OF Glucose
	 Oxidase Motility 	4. Bacterial Cell Anatomy and Arrangement
•	ID Strategies for Gram Negative Bacilli	8. Identifying Gram Negative Rods
•	Isolation Media for Gram Negative Bacilli	New
	Soon!	
•	Triple Sugar Iron Agar	10. Triple Sugar Iron Agar
•	IMViC Series	11. IMViC Series
•	ID Strategies for Gram Positive Cocci	14. Identifying Gram Positive Cocci
•	Isolation Media for Gram Positives – Coming	18. Mannitol Salt Agar and <i>NEW</i>
	Soon!	
•	Blood Hemolysis	15. Hemolysis of Blood Agar
•	Bile Esculin Agar	17. Bile Esculin Test
Contin-	2 Hoolth Microbiology	
	3 – Health Microbiology	Now
•	Concepts of Health and Disease	New
•	Infectious Disease and Epidemiology	21. Infectious Disease and Epidemiology
•	Scavenger Hunt – Infectious Diseases	New
•	Pathogenicity and Virulence	22. Pathogenicity and Virulence

Innate Immune Defenses	23. Innate (Nonspecific) Defenses to Disease
Adaptive Immune Defenses	24. Adaptive (Specific) Immune Response
Scavenger Hunt – Immunity	New
Cardiovascular System Infections	25. Infections of the Cardiovascular System
Respiratory System Infections	26. Infections of the Respiratory System
Digestive System Infections	27. Infections of the Digestive System
Genitourinary System (UTI) Infections	28. Infections of the Respiratory & Urinary Systems
Nervous System Infections	29. Infections of the Nervous System
Nosocomial Infections	New
Scavenger Hunt – More on Diseases	New
Section 4 – Additional Activities	
Most Probable Number	New
Principles of Hand Hygiene	New
Kirby-Bauer Antibiotic Susceptibility Testing	7. Antimicrobial and Chemotherapeutic Agents
Antiseptics and Disinfectants Testing	6. Controlling Microbial Growth and NEW
Rapid ID Using Chromogenic Media – Coming Soon!	New
Rapid ID Using Biochemical Test Panels	19. Rapid ID Systems for Bacterial Identification
• The Bacterial Growth Curve – Coming Soon!	New
Save The Patient	20. Save The Patient!
Creating Research Posters from VUMIE Online Unknowns	30. Creating Scientific Posters
Fantasy Microbiology League	31. Fantasy Microbiology
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