

Biochemistry

Lecture	Duration	
Biochemistry		
Chemical Basis of Life		
Scope of Biochemistry		
Scope of Biochemistry - 01	1_4471	00:17:52
Scope of Biochemistry - 02	1_4472	00:17:22
Cell and Sub-cellular Structures		
Characteristics of Cell and Membrane Transport I - Cell Structure		
Characteristics of Cell and Membrane Transport - Cell Structure-01	1_2416	00:19:15
Characteristics of Cell and Membrane Transport - Cell Structure-02	1_2417	00:19:15
Characteristics of Cell and Membrane Transport II - Lipid Bi-layer and Membrane Components		
Characteristics of Cell and Membrane Transport - Lipid Bi-layer and Membrane Components-01	1_2413	00:17:23
Characteristics of Cell and Membrane Transport - Lipid Bi-layer and Membrane Components-02	1_2414	00:21:01
Characteristics of Cell and Membrane Transport III - Membrane Characteristics and Transport Systems		
Characteristics of Cell and Membrane Transport - Membrane Characteristics and Transport Systems-01	1_2420	00:18:46
Characteristics of Cell and Membrane Transport - Membrane Characteristics and Transport Systems-02	1_2422	00:19:15
Characteristics of Cell and Membrane Transport IV - Membrane Transport Systems		
Characteristics of Cell and Membrane Transport - Membrane Transport Systems-01	1_2452	00:20:23
Characteristics of Cell and Membrane Transport - Membrane Transport Systems-02	1_2453	00:12:12
Carbohydrate Chemistry		
Chemistry of Carbohydrates 01 - Monosaccharides	1_1905	00:35:29
Chemistry of Carbohydrates 02 - Monosaccharides and Disaccharides	1_1906	00:39:16
Mucopolysaccharides		
Mucopolysaccharides	1_11216	00:27:02
Mucopolysaccharides-Revision	1_11217	00:04:36
Lipid Chemistry		
Chemistry of Lipids	1_1875	00:42:43
Protein Chemistry		
Chemistry of Amino Acids and Proteins		
Chemistry of Amino Acids and Proteins	1_1771	00:40:53
Protein Structure and Organization		
Protein Structure and Organization	1_1896	00:42:49
Protein Classification		
Protein Classification	1_1880	00:43:48
Protein Classification- Interactive exercise	1_8242	00:00:00
Proteins - Immunoglobulins	1_1894	00:26:07
Immunoglobulins- Interactive exercise	1_10932	00:00:00
Proteins - Methods of Separation and Analysis	1_1902	00:34:58
Structural and Motility Proteins		
Structural and Motility Proteins-01	1_2387	00:20:50
Structural and Motility Proteins-02	1_2388	00:18:59

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Lecture	Duration	
Biologically Important Peptides		
Biologically Important Peptides	1_11172	00:29:55
Biologically Important Peptides_Revision	1_11173	00:06:18
Enzymology		
Enzymes - General Concepts		
Enzymes - General Concepts-01	1_4488	00:26:14
Enzymes - General Concepts-02	1_4489	00:21:52
Enzyme Kinetics		
Enzyme Kinetics-01	1_4490	00:21:06
Enzyme Kinetics-02	1_4491	00:18:11
Enzyme Kinetics-03	1_4492	00:13:02
Enzyme Regulation		
Enzyme Regulation-01	1_4755	00:27:35
Enzyme Regulation-02	1_4756	00:27:55
Clinical Enzymology		
Clinical Enzymology-01	1_4790	00:15:59
Clinical Enzymology-02	1_4791	00:20:19
Clinical Enzymology-03	1_4792	00:18:59
General Metabolism		
Digestion and Absorption		
Digestion and Absorption - I		
Digestion and Absorption - I-01	1_3263	00:20:51
Digestion and Absorption - I-02	1_3264	00:18:24
Digestion and Absorption - II		
Digestion and Absorption - II-01	1_3259	00:21:43
Digestion and Absorption - II-02	1_3260	00:19:58
Carbohydrate Metabolism		
Glycolysis		
Glycolysis - I		
Glycolysis I-01	1_2022	00:23:27
Glycolysis I-02	1_2036	00:24:01
Glycolysis I-03	1_2041	00:21:24
Glycolysis II		
Glycolysis II - Regulation of Glycolysis	1_3188	00:30:09
TCA Cycle		
TCA Cycle I - Formation of Acetyl CoA		
TCA Cycle I - Formation of Acetyl CoA-01	1_2142	00:22:45
TCA Cycle I - Formation of Acetyl CoA-02	1_2150	00:21:03
TCA Cycle II - Oxidation of Acetyl CoA		
TCA Cycle II - Oxidation of Acetyl CoA-01	1_2276	00:23:29
TCA Cycle II - Oxidation of Acetyl CoA-02	1_2277	00:25:18
Gluconeogenesis		
Gluconeogenesis-01	1_2220	00:30:33
Gluconeogenesis-02	1_2221	00:28:33
Glycogen Metabolism		
Glycogen Metabolism - I		
Glycogen Metabolism I-01	1_2232	00:24:04
Glycogen Metabolism I-02	1_2233	00:18:45
Glycogen Metabolism - II		
Glycogen Metabolism II-01	1_2238	00:17:49
Glycogen Metabolism II-02	1_2239	00:17:33

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Lecture		Duration
HMP Shunt		
HMP Shunt-01	1_2222	00:16:22
HMP Shunt-02	1_2229	00:20:47
HMP Shunt-03	1_2237	00:14:11
Uronic Acid Pathway		
Uronic Acid Pathway	1_4455	00:12:47
Uronic Acid Pathway- Interactive Exercise	1_8260	00:00:00
Metabolism of Fructose, Mannose, Galactose and Lactose		
Metabolism of Fructose, Mannose, Galactose and Lactose	1_4456	00:23:35
Lipid Metabolism		
Ketone Bodies	1_3170	00:23:11
Denovo Synthesis of Fatty Acids		
Denovo Synthesis of Fatty Acids-01	1_3153	00:21:43
Denovo Synthesis of Fatty Acids-02	1_3154	00:22:47
Phospholipids and Glycolipids		
Phospholipids and Glycolipids-01	1_3158	00:15:09
Phospholipids and Glycolipids-02	1_3159	00:15:48
Synthesis of Unsaturated Fatty Acids		
Synthesis of Unsaturated Fatty Acids-01	1_3166	00:15:13
Synthesis of Unsaturated Fatty Acids-02	1_3167	00:16:47
Metabolism of Triacylglycerol		
Metabolism of Triacylglycerol-01	1_3164	00:16:11
Metabolism of Triacylglycerol-02	1_3165	00:17:10
Oxidation of Fatty Acids		
Oxidation of Fatty Acids-01		
Oxidation of Fatty Acids-01	1_3171	00:25:19
Oxidation of Fatty Acids-02		
Oxidation of Fatty Acids-02	1_3172	00:26:22
Transport of Lipids		
Transport of Lipids I - Classification of Lipoproteins		
Transport of Lipids I - Classification of Lipoproteins-01	1_3160	00:18:32
Transport of Lipids I - Classification of Lipoproteins-02	1_3161	00:19:58
Transport of Lipids II - Lipoprotein Metabolism		
Transport of Lipids II - Lipoprotein Metabolism-01	1_3162	00:24:24
Transport of Lipids II - Lipoprotein Metabolism-02	1_3163	00:18:50
Cholesterol Metabolism		
Cholesterol Metabolism I - Structure and Synthesis of Cholesterol		
Cholesterol Metabolism I - Structure and Synthesis of Cholesterol-01	1_3177	00:14:29
Cholesterol Metabolism I - Structure and Synthesis of Cholesterol-02	1_3178	00:18:42
Cholesterol Metabolism II - Metabolism of Cholesterol		
Cholesterol Metabolism II - Metabolism of Cholesterol-01	1_3179	00:13:09
Cholesterol Metabolism II - Metabolism of Cholesterol-02	1_3180	00:14:38
Amino Acid Metabolism		
Hemoglobin		
Hemoglobin I		
Hemoglobin I-01	1_4922	00:24:18
Hemoglobin I-02	1_4923	00:15:51
Hemoglobin II		
Hemoglobin II-01	1_5049	00:18:50
Hemoglobin II-02	1_5050	00:24:02

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Lecture	Duration	
Amino Acid Metabolism		
Metabolism of Amino Acids I - Urea Cycle and Detoxification of Ammonia		
Metabolism of Amino Acids - Urea Cycle and Detoxification of Ammonia-01	1_3033	00:17:01
Metabolism of Amino Acids - Urea Cycle and Detoxification of Ammonia-02	1_3034	00:20:30
Metabolism of Amino Acids - Urea Cycle and Detoxification of Ammonia-03	1_3035	00:18:44
Metabolism of Amino Acids II - Simple Aliphatic Amino Acids		
Metabolism of Amino Acids - Simple Aliphatic Amino Acids-01	1_2920	00:20:08
Metabolism of Amino Acids - Simple Aliphatic Amino Acids-02	1_2921	00:20:19
Metabolism of Amino Acids - Simple Aliphatic Amino Acids-03	1_3037	00:15:57
Metabolism of Amino Acids - Simple Aliphatic Amino Acids-04	1_3038	00:16:21
Metabolism of Amino Acids III - Sulfur Containing Amino Acids		
Metabolism of Amino Acids - Sulfur Containing Amino Acids-01	1_2927	00:16:58
Metabolism of Amino Acids - Sulfur Containing Amino Acids-02	1_2928	00:20:37
Metabolism of Amino Acids - Sulfur Containing Amino Acids-03	1_2929	00:16:51
Metabolism of Amino Acids IV - Aromatic Amino Acids		
Metabolism of Amino Acids - Aromatic Amino Acids-01	1_2992	00:15:53
Metabolism of Amino Acids - Aromatic Amino Acids-02	1_2993	00:22:19
Metabolism of Amino Acids - Aromatic Amino Acids-03	1_2994	00:15:59
Metabolism of Amino Acids V - Tryptophan and Branched Chain Amino Acids		
Metabolism of Amino Acids - Tryptophan and Branched Chain Amino Acids-01	1_2995	00:19:46
Metabolism of Amino Acids - Tryptophan and Branched Chain Amino Acids-02	1_2997	00:20:59
Metabolism of Amino Acids VI - Basic Amino Acids		
Metabolism of Amino Acids - Basic Amino Acids-01	1_2922	00:22:04
Metabolism of Amino Acids - Basic Amino Acids-02	1_2923	00:15:22
Metabolism of Amino Acids - Basic Amino Acids-03	1_2924	00:20:03
Metabolism of Amino Acids VII - Acidic Amino Acids and Amides		
Metabolism of Amino Acids - Acidic Amino Acids and Amides-01	1_2925	00:17:37
Metabolism of Amino Acids - Acidic Amino Acids and Amides-02	1_2926	00:19:21
Oxidative Phosphorylation	1_4497	00:36:47
Heme Synthesis and its Disorders		
Porphyryns - Heme Synthesis and its Disorders-01	1_3269	00:22:50
Porphyryns - Heme Synthesis and its Disorders-02	1_3270	00:18:25
Porphyryns - Heme Synthesis and its Disorders-03	1_3271	00:15:19
Heme Catabolism		
Porphyryns - Heme Catabolism	1_3272	00:22:40
Thalassemia and Sickle Cell Anemia		
Thalassemia and Sickle Cell Anemia	1_11176	00:29:45
Thalassemia and Sickle Cell Anemia Revision	1_11177	00:06:11

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Lecture	Duration	
Intermediary Metabolism		
Integration of Metabolism		
Integration of Metabolism I - Introduction and Regulation of Metabolic Pathway		
Integration of Metabolism I - Introduction and Regulation of Metabolic Pathway-01	1_2314	00:16:14
Integration of Metabolism I - Introduction and Regulation of Metabolic Pathway-02	1_2315	00:22:35
Integration of Metabolism II - Effect of Insulin and Glucagon on Metabolic Pathway		
Integration of Metabolism II - Effect of Insulin and Glucagon on Metabolic Pathway-01	1_2316	00:15:33
Integration of Metabolism II - Effect of Insulin and Glucagon on Metabolic Pathway-02	1_2317	00:20:29
Integration of Metabolism III - Effect of Catecholamines and Glucocorticoid on Metabolic Pathway		
Integration of Metabolism III - Effect of Catecholamines and Glucocorticoid on Metabolic Pathway-01	1_2318	00:20:14
Integration of Metabolism III - Effect of Catecholamines and Glucocorticoid on Metabolic Pathway-02	1_2319	00:16:27
Integration of Metabolism IV - Metabolic Interconnections and Organ Specialization		
Integration of Metabolism IV - Metabolic Interconnections and Organ Specialization-01	1_2477	00:15:03
Integration of Metabolism IV - Metabolic Interconnections and Organ Specialization-02	1_2478	00:23:04
Integration of Metabolism V - Metabolic Adaptations		
Integration of Metabolism V - Metabolic Adaptations-01	1_2479	00:16:34
Integration of Metabolism V - Metabolic Adaptations-02	1_2480	00:19:11
Overview of Metabolism		
Overview of Metabolism I - Metabolic Pathways		
Overview of Metabolism I - Metabolic Pathways-01	1_2411	00:19:06
Overview of Metabolism I - Metabolic Pathways-02	1_2412	00:19:37
Overview of Metabolism II - Regulation of Metabolic Pathways and Bio-energetics		
Overview of Metabolism II - Regulation of Metabolic Pathways and Bio-energetics-01	1_2423	00:20:42
Overview of Metabolism II - Regulation of Metabolic Pathways and Bio-energetics-02	1_2424	00:18:23
Starvation		
Starvation-01	1_11208	00:15:35
Starvation-02	1_11209	00:19:35
Starvation-Revision	1_11210	00:04:35
Clinical and Applied Biochemistry		
Analytical Enzymes		
Analytical Enzymes	1_11214	00:23:48
Analytical Enzymes-Revision	1_11215	00:03:51
Blood Glucose Homeostasis		
Blood Glucose Homeostasis-01	1_5152	00:18:21
Blood Glucose Homeostasis-02		
Blood Glucose Homeostasis-02	1_5153	00:20:45

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Lecture	Duration	
Dysruption in Regulation of Blood Glucose		
Dysruption in Regulation of Blood Glucose-01	1_5150	00:18:01
Dysruption in Regulation of Blood Glucose-02	1_5151	00:18:44
Glucose Tolerance Test		
Glucose Tolerance Test	1_11174	00:24:56
Glucose Tolerance Test_Revision	1_11175	00:07:27
Atherosclerosis		
Atherosclerosis_01	1_11190	00:20:09
Atherosclerosis_02	1_11191	00:25:38
Atherosclerosis_Revision	1_11192	00:06:15
Techniques in Biochemistry	1_2046	00:22:39
Renal Function Tests		
Renal Function Tests - I		
Renal Function Tests - I-01	1_2914	00:23:05
Renal Function Tests - I-02	1_2915	00:16:03
Renal Function Tests - II		
Renal Function Tests - II-01	1_2916	00:15:31
Renal Function Tests - II-02	1_2917	00:17:39
Liver Function Tests		
Liver Function Tests-01	1_2931	00:19:44
Liver Function Tests-02	1_2932	00:19:37
Liver Function Tests-03	1_2933	00:19:46
Liver Function Tests-04	1_2934	00:14:49
Acid Base Balance		
Acid Base Balance I - Concepts		
Acid Base Balance I - Concepts-01	1_2475	00:22:33
Acid Base Balance I - Concepts-02	1_2476	00:24:46
Acid Base Balance II- Metabolic Disorders		
Acid Base Balance II- Metabolic Disorders-01	1_2571	00:19:22
Acid Base Balance II- Metabolic Disorders-02	1_2572	00:20:59
Acid Base Balance III- Respiratory Disorders		
Acid Base Balance III- Respiratory Disorders-01	1_2576	00:17:35
Acid Base Balance III- Respiratory Disorders-02	1_2577	00:21:32
Acid Base Balance IV- Maintenance of Hydrogen Ion Homeostasis		
Acid Base Balance IV- Maintenance of Hydrogen Ion Homeostasis - 01	1_2562	00:25:12
Acid Base Balance IV- Maintenance of Hydrogen Ion Homeostasis -02	1_2563	00:22:32
Water Electrolyte Balance and Imbalance		
Water Electrolyte Balance and Imbalance-01	1_11218	00:20:05
Water Electrolyte Balance and Imbalance-02	1_11219	00:22:14
Water Electrolyte Balance and Imbalance-Revision	1_11220	00:06:04
Free Radicals and Antioxidants		
Free Radicals and Antioxidants-01	1_11211	00:17:17
Free Radicals and Antioxidants-02	1_11212	00:17:39
Free Radicals and Antioxidants-Revision	1_11213	00:04:03

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Lecture	Duration	
Nutrition		
Fat Soluble		
Vitamin A		
Vitamin A - I		
Vitamin A-01	1_2486	00:16:41
Vitamin A-02	1_2487	00:21:31
Vitamin A - II		
Vitamin A-03	1_2492	00:17:36
Vitamin A-04	1_2493	00:21:19
Vitamin D		
Vitamin D - I		
Vitamin D I-01	1_2406	00:14:30
Vitamin D I-02	1_2415	00:20:56
Vitamin D - II		
Vitamin D II-01	1_2450	00:23:15
Vitamin D II-02	1_2451	00:22:50
Vitamin E	1_2410	00:30:41
Vitamin K		
Vitamin K-01		
Vitamin K-01	1_2399	00:15:43
Vitamin K-02	1_2400	00:17:02
Water Soluble		
Thiamine		
Thiamine-01	1_2106	00:20:15
Thiamine-02	1_2126	00:22:22
Niacin and Riboflavin		
Niacin and Riboflavin		
Niacin and Riboflavin-01	1_2129	00:20:39
Niacin and Riboflavin-02	1_2130	00:19:08
Pyridoxine (Vitamin B6)	1_2093	00:36:06
Biotin and Pantothenic Acid		
Biotin and Pantothenic Acid-01	1_2096	00:18:35
Biotin and Pantothenic Acid-02	1_2105	00:20:14
Folic Acid		
Folic Acid-01	1_2564	00:21:56
Folic Acid-02	1_2565	00:15:46
Cobalamin		
Cobalamin-01	1_2235	00:19:40
Cobalamin-02	1_2236	00:18:56
Vitamin C		
Vitamin C-01	1_2084	00:21:02
Vitamin C-02	1_2085	00:20:00
Mineral Metabolism		
Mineral Metabolism I - Introduction and Calcium		
Mineral Metabolism I - Introduction and Calcium-01	1_3458	00:23:49
Mineral Metabolism I - Introduction and Calcium-02	1_3459	00:22:23

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Lecture	Duration	
Mineral Metabolism II (P, Na, K, Cl, Mg, Cu)		
Mineral Metabolism II-01 (P, Na, K)	1_3491	00:22:22
Mineral Metabolism II-02 (Cl, Mg)	1_3492	00:15:24
Mineral Metabolism II-03 (Mg, Cu)	1_3493	00:24:24
Mineral Metabolism III - Iron		
Mineral Metabolism III - Iron-01	1_3739	00:22:37
Mineral Metabolism III - Iron-02	1_3740	00:21:07
Mineral Metabolism IV (Se, Zn, Mo, Co, Cr, Mn, I, F)		
Mineral Metabolism IV-01 (Se, Zn, Mo)	1_3781	00:23:24
Mineral Metabolism IV-02 (Co, Cr, Mn, I, F)	1_3782	00:22:37
Nutrition and Energy Metabolism		
Nutrition I - Calorific Values and Components of Energy Requirement		
Nutrition I - Calorific Values and Components of Energy Requirement-01	1_3843	00:23:09
Nutrition I - Calorific Values and Components of Energy Requirement-02	1_3844	00:16:07
Nutrition II - Nutritional Importance of Carbohydrate, Fibers and Fat		
Nutrition II - Nutritional Importance of Carbohydrate, Fibers and Fat-01	1_3857	00:20:17
Nutrition II - Nutritional Importance of Carbohydrate, Fibers and Fat-02	1_3858	00:19:16
Nutrition III - Nutritional Importance of Proteins		
Nutrition III - Nutritional Importance of Proteins-01	1_3948	00:21:10
Nutrition III - Nutritional Importance of Proteins-02	1_3949	00:17:45
Nutrition IV - Nutritional Disorders		
Nutrition IV - Nutritional Disorders-01	1_3986	00:17:55
Nutrition IV - Nutritional Disorders-02	1_3987	00:17:33
Metabolism of Xenobiotics		
Detoxification of Xenobiotics-01	1_2918	00:16:21
Detoxification of Xenobiotics-02	1_2919	00:21:54
Detoxification of Xenobiotics-03	1_3743	00:16:28
Environmental Biochemistry		
Environmental Biochemistry-01	1_11205	00:19:48
Environmental Biochemistry-02	1_11206	00:22:49
Environmental Biochemistry-Revision	1_11207	00:05:41
Molecular Biology		
Nucleotides		
Nucleotides-01	1_2176	00:20:43
Nucleotides-02	1_2177	00:19:54
DNA Structure and Replication		
DNA Structure and Replication-01	1_2178	00:22:56
DNA Structure and Replication-02	1_2179	00:17:01
DNA Transcription		
DNA Transcription-01	1_2185	00:14:45
DNA Transcription-02	1_2186	00:19:36

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Lecture	Duration	
DNA Translation		
DNA Translation - I		
DNA Translation I-01	1_2187	00:16:46
DNA Translation I-02	1_2188	00:22:03
DNA Translation - II		
DNA Translation II-01	1_2191	00:23:47
DNA Translation II-02	1_2192	00:20:56
Molecular Genetics		
Molecular Genetics-01	1_2195	00:20:55
Molecular genetics-02	1_2196	00:24:52
Molecular Biology Techniques		
Molecular Biology Techniques-01	1_2193	00:24:37
Molecular Biology Techniques-02	1_2194	00:21:11
Endocrinology		
Classification and Mechanism of Action of Hormones		
Classification and Mechanism of Action of Hormones-01		
Classification and Mechanism of Hormones-01	1_3181	00:19:34
Classification and Mechanism of Action of Hormones-02	1_3182	00:22:04
Hypothalamus and Pituitary Hormones		
Hypothalamus and Pituitary Hormones-01	1_3183	00:26:14
Hypothalamus and Pituitary Hormones-02	1_3184	00:29:08
Thyroid Hormones		
Thyroid Hormones-01	1_3193	00:26:07
Thyroid Hormones-02	1_3194	00:20:43
Pancreatic and GIT Hormones		
Pancreatic and GIT Hormones-01	1_3209	00:22:05
Pancreatic and GIT Hormones-02	1_3210	00:21:34
Adrenal Cortex and Medulla		
Adrenal Cortex and Medulla-01	1_3204	00:25:04
Adrenal Cortex and Medulla-02	1_3205	00:21:52
Hormones of Gonads		
Hormones of Gonads-01		
Hormones of Gonads-01	1_3244	00:30:36
Hormones of Gonads-02	1_3245	00:08:36
Hormones Maintaining Calcium Homeostasis		
Hormones Maintaining Calcium Homeostasis	1_4264	00:24:06
Advanced Biochemistry		
Immunology		
Immunology I - Cells of Immune System and Immune Responses		
Immunology I - Cells of Immune System and Immune Responses-01	1_3257	00:25:02
Immunology I - Cells of Immune System and Immune Responses-02	1_3258	00:22:59

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Lecture	Duration	
Immunology II - Immunoglobulins and Disorders of Immune System		
Immunology II - Immunoglobulins and Disorders of Immune System-01	1_3267	00:24:40
Immunology II - Immunoglobulins and Disorders of Immune System-02	1_3268	00:19:19
Cancer Biology		
Biochemistry of Cancer		
Biochemistry of Cancer	1_11193	00:32:06
Biochemistry of Cancer_Revision	1_11194	00:07:41
Gences and Cancer		
Gences and Cancer-01	1_11957	00:21:50
Gences and Cancer-02	1_11958	00:21:10
Carcinogenesis		
Carcinogenesis - 01	1_12029	00:15:34
Carcinogenesis - 02	1_12030	00:15:37
Radioisotopes		
Radioisotopes-01	1_11202	00:20:12
Radioisotopes-02	1_11203	00:20:51
Radioisotopes-Revision	1_11204	00:05:16