

 **Alkaline Phosphatase usage**

1. Alkaline Phosphatase
2. Shrimp Alkaline Phosphatase

 **Animal and Cell Culture Procedures**

1. Cell freezing protocol
2. Small Molecule animal protocol

 **Freezing Cells**

- 1) Ampoules and Vials Protocol
- 2) Freezing cells
- 3) Freezing media

 **BACmid Recombineering Protocols**

1. A Highly Efficient Recombineering-Based Method for Generating Conditional Knockout Mutations
2. BAC DNA Mini-Preparation
3. Bac recombineering vectors
4. BAC Recombineering Protocol
5. BAC Recombineering protocol 1
6. Recombineering protocol 2
7. Recombineering protocol 3
8. Recombineering protocol 4
9. BAC d E3c
10. DNA Max-Prep Protocol
11. High-efficiency counterselection recombineering for site-directed mutagenesis in bacterial artificial
12. J. Virol.-2002-Zhou-6185-96
13. NEBlot Kit Instruction Manual Preparation of High Specific Activity DNA Probes
14. pEL04 map
15. pGalK map
16. pTamp map
17. pIGCN21 map
18. PL253 map
19. PL451 map
20. PL452 map
21. Preparing solutions for BAC DNA preparation
22. QIAGEN Large-Construct Kit Handbook
23. Recombineering a homologous recombination-based
24. Simple and highly efficient BAC Recombineering using
25. Strains

 **Bacteria Growth Transformation and Maintenance and Bacteriophage**

1. 2 x YT Medium, M9 Minimal Medium
2. Antibiotic Solutions
3. Diluent
4. LB Medium, NZCYM Medium, NZYM Medium, NZM Medium
5. Media with Agar or Agarose
6. Solutions for Working with Bacteriophage
7. Storage Media, Stab Cultures, Bacterial Cultures Growing in Liquid Media and Agar Plates Terrific Broth, SOB Medium, SOC Medium
8. Terrific Broth, SOB Medium, SOC Medium

 **T4 Polynucleotide Kinase Assays**

1. Bacteriophage T4 Polynucleotide Kinase Exchange Reaction
2. Bacteriophage T4 Polynucleotide Kinase

 **Beta-Galactosidase and Chloramphenicol Acetyltransferase Assays**

1. B-Gal Assay
2. Harvest and Assay for Chloramphenicol Acetyltransferase

 **Beta-Galactosidase Staining**

1. Beta-Galactoside Staining of Cells
2. Histochemical Staining
3. Immunodetection of Specific Proteins

 **Chemiluminescent B-gal Detection**

1. Galacto-Light

 **BOSC23 Transfection and Infection of NIH 3T3 Cells**

1. Transfection of BOSC23 cells and infection of NIH 3T3 Cells

 **Tet Vector Transfection of BOSC23 cells and NIH3T3 cell Infection**

1. Pear - Transfection of BOSC23 and NIH3T3 Infection
2. Tet Vector Transfection of BOSC23 Cells and NIH3T3 Cell Infection

 **BrdU Staining FACS Protocols**

1. Ca⁺⁺ Analysis via FACS
2. BrdU Staining
3. Intracellular staining of Bcl-2 for FACS
4. Preparation of Cultured Cells for FACS Analysis
5. Propidium Iodide Staining
6. Simultaneous Surface and DNA Staining for FACS

 **Calcium Phosphate with BBS Transfection**

1. Calcium Chloride-BBS Transfection Protocol
2. Calcium Phosphate Transfection System

 **Cell Culture Protocols**

1. Cell Lysis for PCR Analysis
2. Collecting and Transfecting Cells
3. Epithelial Cell Lines
4. FICOLL
5. GPT selection
6. HVS Transformation of PBMCs
7. Lymphocyte Isolation by Ficoll Gradient Centrifugation
8. Maintaining 293GP Clones in Culture
9. Mammalian Cell Selection by Panning
10. Mycophenolic Acid Selection
11. Preparation of Cell Cultures and Vaccinia Virus Stocks
12. Preparation of Insect Cell Cultures and Baculoviral Stocks
13. Primary Lymphocyte Electroporation
14. Protein Expression in Insect Cells Using Baculoviral Vectors Overview
15. Spin infections
16. Transformation Efficiency Assay

 **Competent Cells**

1. CaCl₂ Preparation of Competent E.coli
2. Preparing ultra-competent E.coli

 ***E. Coli Transformation***

1. Introduction of Plasmid DNA into cells

 **Chromatin Immunoprecipitation Assay**

1. ChIP Protocol
2. Chromatin Immunoprecipitation from paraffin
3. Abcam_CHIP Assay
4. ChIP Assay

 **Cloning and Expression Vectors**

1. Episomal Mammalian Expression Vectors
-  ***Cloning in Alkaline Phosphatase-Treated Vector***
1. Cloning in Phosphatase-treated Cosmid Vectors

 **Colony Hybridization**

1. Screening for clones by colony hybridization

 **CsCl Purification of Plasmid DNA**

1. Large scale preparation of plasmid DNA
2. Reducing spin times for CsCl isolation for plasmid DNA


 **DAPI Staining of Nucleus**

1. DAPI
2. DAPI European language

 **Dialysis**

1. Preparing dialysis tubing

 **DNA Protocols**

 **DNA Fragment Purification from Agarose Gel**

1. cDNA Amplification Kit
2. CHART RNA
3. DNA Ladder Protocol
4. DNA Max-Prep. Protocol
5. DNA Mini-Prep. Protocol V1
6. DNA Maxi-prep. V1 9.06
7. Garbella Cell gel Assay
8. Gel Shift Assay
9. Hirt supernatant DNA preparation
10. Mini-prep. for plasmid extraction
11. Mini prep protocol V2
12. Nuclei Paraffin DNA
13. Oligo DNA
14. Optimization of DNA-RNA Extraction from FFPE paper
15. Phenol-based methods for isolating DNA from Agarose Gels
16. Prep Crude DNA for PCR- Preparation of Phage Lamda DNA
17. Protocols for the in situ PCR-amplification and detection of mRNA and DNA sequences
18. Rapid Separation of Protein-Bound DNA
19. S35 DNA Sequencing
20. Salmon Sperm DNA
21. Simultaneous Purification of Genomic DNA and Total RNA (supplementary)
22. Trizol Reagent

 ***DNase I Footprinting***

- 1) DNase I protocol for footprinting ToxR membranes
- 2) Optimization and troubleshooting DNase I footprinting reactions
- 3) P32 Labeling of Large DNA Fragments

 ***Phage Lambda DNA Preparation***

- 1) Large Scale Preparation of Bacteriophage Lambda
- 2) Preparation of Phage Lambda DNA

 ***Purification by CNBr Coupling Protocol***

- 1) Analysis of DNA-Protein Interactions Using Proteins Synthesized In Vitro from Cloned Genes
- 2) CNBr-Activated Sepharose 4 Fast Flow
- 3) CNBr-Activated Sepharose 4B
- 4) Detection, Purification, and Characterization of cDNA Clones Encoding DNA-Binding Proteins
- 5) DNA-Protein Interactions
- 6) DNase I Footprint Analysis of DNA-Protein Binding
- 7) Methylation Interference Assay for Analysis of DNA-Protein Interactions
- 8) Motility Shift DNA-binding Assay Using Gel Electrophoresis
- 9) Preparation of Nuclear and Cytoplasmic Extracts from Mammalian Cells
- 10) Purification by CNBr Coupling
- 11) Purification of DNA-Binding Proteins Using Biotin-Streptavidin Affinity Systems
- 12) Purification of Sequence-Specific DNA-Binding Proteins by Affinity Chromatography
- 13) Rapid Separation of Protein-bound DNA From Free DNA Using Nitrocellulose Filters
- 14) Types of Chromatography
- 15) UV-Crosslinking of Proteins to Nucleic Acids

 **High Efficiency Plasmid Recovery**

1. Efficient recovery of plasmid DNA with high nuclease activity
2. High-yield method for DNA isolation

 **ELISA Assays**

1. DNA Quality for Transfection
2. Electrocomp. E. Coli Cells
3. Elisa w HRP, ABTS & acid stop
4. ELISA with HRP and TMB
5. Superfect Transfection
6. Transfection Reagents

 **EMSA Electro-mobility Shift Assays**

1. Alternative to Polyacrylamide Gels Improves the Electrophoretic Mobility Shift Assay
2. Emsa protocol
3. Gel Shift Assay
4. PCR Fragment Separation Medium

 **Flow Cytometry**

1. Apoptosis detection with permeable cells
2. Detection of apoptosis in unfixed samples with Hoechst 33342
3. DFCI Flow Cytometry Facility General Info
4. DNA staining with Chromomycin A3
5. Hoechst 33342 Staining of Viable Cells
6. Indo-1 Analysis for calcium determination
7. Propidium Iodide Staining for Cell Cycle Determination
8. Propidium Iodide Staining for Dead Cell Exclusion






 **Fluorescence in Situ Hybridization**

1. BAC fluorescence ISH single color
2. FISH slides
3. FISH with TSA
4. Fluorescence In Situ Hybridization
5. In situ detection of RNA and DNA
6. In Situ DNA Hybridization Products
7. Introduction of Micromax Human cDNA Microarray System I
8. One color FISH - Nick translation
9. Standard Protocol
10. Summary of TSA-Direct ISH
11. TSA and In Situ Hybridization
12. TSA Diagrams
13. TSA-Direct Kit Components
14. TSA-Direct Kits

 **Genomic DNA Isolation System**

1. Commentary
2. Construct Nested Deletions with BAL 31 Exonuclease and Exonuclease III
3. Construct Nested Deletions with BAL 31 Exonuclease
4. Construction of Nested Deletions for DNA Sequencing
5. Genomic DNA Isolation System
6. Reagents and Solutions, Commentary

 **Immuno Assays**

1. Western protocol
2. Double staining Immunofluorescence GBP-1 CD31
3. Double staining Ki-67-CD31
4. Immunofish
5. Preparation of Human Sera for EBV Latent Antigen Detection
-  ***Immunoaffinity Purification of Antibodies by GST Fusion Proteins***
 - 1) Immunoaffinity Purification of Antibodies against GST Fusion Proteins
 - 2) Immunoaffinity purification
-  ***Immunofluorescence***
 - 1) Immunofluorescence Protocol
 - 2) Immunofluorescence staining
 - 3) Immunofluorescent staining and flow cytometry procedures
-  ***Immunoperoxidase Staining***
 - 1) Immunoperoxidase staining procedure
 - 2) Immunoperoxide staining cytopins
-  ***Immunoprecipitation***
 - 1) Immunoblotting procedure
 - 2) Immunoprecipitation protocol
 - 3) Immunoprecipitation with Staphylococcus aureus cells
 - 4) Immunoprecipitation
 - 5) ImmunoPure and UltraLink Proteins L. A. G. AG
 - 6) Monoclonal Antibodies to DNA Tumor Viruses
 - 7) Preparation of Protein A Beads
-  ***Western Blotting ECL Detection***
 - 1) Chemiluminescent Detection Methods
 - 2) Immunodetection by ECL Amersham
 - 3) Repeated Probing of Western Blots
 - 4) RNA-RNA Hybridization
 - 5) Western Stains Using Home-made ECL Chemiluminescent Reagents

 **In Situ Protocols**

 ***In Situ Amplification and Hybridization***

1. In Situ Amplication and Hybridization

 ***In Situ Hybridization of Bacteriophage Plaques***

1. Hybridization to Nitrocellulose Filters with Bacteriophage Plaques Replicas
2. Immobilization of Bacteriophage Plaques
3. In Situ Hybridization of Bacteriophage Plaques

 ***In Situ PCR***

1. In Situ PCR Imperiale Protocol
2. IS-PCR DNase Treatment

 **Instruction Protocols for sense basic Molecular Biology**

1. A Guide to the Preparation and Use of Buffers
2. cDNA Amplification Kit
3. Core Footprinting System
4. Glogos Autorad Markers
5. Instructions for Using the Sonic Dismembrator
6. LacSwitch II Inducible Mammalian Expression System
7. Living Colors Fluorescent Protein Protocols
8. Matchmaker Two-Hybrid System
9. pGEM-T and pGEM-T Easy Vector Systems
10. Primer Extension System - AMV Reverse Transcriptase
11. Push Column Beta Shield Device and Nucltrap Probe
12. Stratagene Random Primer Labeling Kit
13. Taq Extender PCR Additive
14. Yeast Protocols Handbook

 **In vitro Assays**

1. In vitro Processivity Assay
2. Invitro Translation
3. invitro_binding assay protocol
4. invitro_kinase assay protocol
5. Ubiquitylation assay
6. HAT Assay
7. IP HAT Assay
8. Transcription Initiation by RNA Polymerase II

 ***Histone Deacetylase Assay***

- 1) HDAC Protocol
- 2) Histone deacetylase assay kit
- 3) Histone H4 Peptide Radiolabeling
- 4) Anti-Histone H1 protocols

 ***TNT Protocols***

- 1) TnT Coupled Reticulocyte Lysate Systems
- 2) TnT Quick Coupled Transcription Translation Systems

 **Kinase Assays**

1. Histone Kinase Assay
2. In vitro Kinase Assay
3. Mercury In vitro Kinase Assay Kits
4. Protein Kinase Assay with Immunocomplex
5. SAPK Jun kinase assays

 **General Lab Guidelines**

1. Chemical Hygiene Work Plan
2. CTSRMC Approval_Robertson_36814_Apprv_14NOV14
3. Exposure Control Plan
4. Lab Guidelines 100520
5. LMAX384 revised protocol – 06.01.2015
6. Metric
7. RNAi-Ready pSiren-RetroQ-TetP Vector
8. Robertson Notebook Guidelines
9. Use of Tissue Culture Room

 **Lab Reagent Stock**

1. A G sepharose Beads
2. Acrylamide Preperation
3. Dialysis tubing & CsCl
4. dNTP preparation
5. Electrophoresis and Transfer Equipement
6. Fluorescence mounting medium
7. Hybridoma growing instructions
8. Media Preperation
9. MINI PROTEAN BIORAD
10. Odyssey scanner
11. PCR + RT PCR Inventory
12. Protease Inhibitors
13. Puromycin, Hygromycin, G418
14. TPA, NaBu
15. TPA

 **Liposome Transfection**

1. Irvine Scientific Study and Survey
2. Lipofectamine
3. Optimizing Liposome Transfection Guidelines

 **Luciferase**

1. Luciferase assays-original protocol
2. Luciferase Assay Luminometer Protocol
3. Luciferase Assay System
4. Luciferase Reporter Vectors
5. Luciferin Protocol.pdf
6. tb281

 **Matrigel Assay**

1. Matrigel Invasion Chamber Guidelines
2. Matrigel Migration Assay
3. Matrigel Scratch Assay
4. Metastasis Experimental Strategies

 **Membrane Hybridization Protocols**

1. Analysis of Genomic DNA by Southern Hybridization
2. Buffers and Solutions
3. Gene Screen Plus Hybridization Transfer Membrane Manual Table of Contents
4. Hybridization to Nitrocellulose Filters Containing Bacteriophage Plaques or Bacterial Colonies
5. Isolation of DNA from Mammalian Cells
6. Random Priming BMB Kit
7. Sieving Agarose Gel Electrophoresis
8. Southern Blotting and Hybridization
9. Southern Transfer Membrane Hybridization

 **Microarray Pathochip Protocols**

1. 2.5% Gel Electrophoresis
2. Amplification
3. Amplification-Step C
4. DNA purification
5. DNA-RNA Extraction and Purification
6. Hybridization
7. Library Synthesis Reaction
8. Procedures for Pathochip Microarray Experiment for Tumor FFPE samples
9. Purification of Amplified DNA-QIAquick PCR Purification Kit
10. RNA purification
11. Sample Labeling. Step 1 Fluorescent Labeling of gDNA
12. Sample Labeling Procedure. Step 2 Clean-up Labeled samples
13. Vacuum Centrifuge Operation
14. Washing Microarray Scanning Steps

 ***Data Analysis Using Partek Genomic Suite***

- 1) Experimental design
- 2) Data Interpretation and Choosing Candidates Based on the Analyses
- 3) 4 types of Analysis done using Partek Genomic Suite
- 4) 1st step Normalization of the data

 **Molecular Biology Protocols**

1. Doublestaining Ki-67 CD31 mit EnVision
2. Factors that influence
3. FICOLL
4. Gelatin Zymography Protocol
5. Gst pulldown for proteomic study
6. Harvesting Cells for Luciferase Assay
7. High-risk behaviors among adult men and women in Botswana: Implications for HIV-AIDS prevention efforts
8. Knowledge HIV UB students
9. Lysis Buffer Preparation of LMP2 Membrane Extracts
10. Montaner CITI
11. Packaging Extract Protocol II
12. Passage of C-terminal XbaI Linker Mutant Virus from E1 C64 no. 22 LCL
13. Phase Lock Gel Manual
14. Preparation of Vectors Treated with Alkaline Phosphatase
15. Pulse chase Assay
16. Refractive Index Reference for CsCl
17. Ribonuclease Protection Assay
18. Shift Western Protocol
19. Staph Preparation
20. Stratagene Gigapack Gold Packaging Extract
21. Sucrose Gradient Centrifugation
22. Western Blot of Protein Expressed by Yeast

 ***P32 Labeling of GST Fusion Proteins***

- 1) Generation of P32-GST Fusing Proteins
- 2) P32-GST Scale-up guidelines

 ***Molecular Cloning Protocols***

- 1) Agar, Agarose and Concentrated Media
- 2) Antibiotics
- 3) Autoradiography
- 4) Buffers for Restriction Endonuclease Digestion
- 5) Cell Counts with a Hemacytometer
- 6) Chromatography Through Sephadex G-50
- 7) Common Electrophoretic Buffers
- 8) Commonly Used Gel-loading Buffers
- 9) Concentration of Nucleic Acids
- 10) Determination of Viability by Trypan Blue Exclusion
- 11) Drying Down 32P-labeled Nucleotides from Mixtures of Ethanol and Water
- 12) Enzymes
- 13) Glassware and Plasticware
- 14) Liquid Media
- 15) Mutation Detection by Cleavase Fragment Length Analysis
- 16) Measurement of Radioactivity in Nucleic Acids
- 17) Northern Blotting
- 18) Preparation of Buffers and Solutions
- 19) Preparation of Dialysis Tubing
- 20) Preparation of Multimers of Plasmids as Molecular Weight Markers
- 21) Preparation of Organic Reagents
- 22) Preparation of Stock Solutions
- 23) Proteolytic Enzymes

- 24) Protocol for Sequencing by the Maxam-Gilbert Technique
- 25) Purification of Nucleic Acids
- 26) Quantification of DNA and RNA
- 27) Solutions for Working with Bacteriophage Lambda
- 28) Solutions BIOCHEMICAL TECHNIQUES

 **Preparation of Competent Cells**

- 1) Competent bacteria protocol
- 2) Competent Yeast Cells
- 3) Preparation of Competent Cells

 **Nuclear Protocols**

- 1. Preparation of Nuclear and Cytoplasmic Extracts from Mammalian Cells
- 2. Nuclear Run-on Analysis of Transcription
- 3. Nuclear Extract Logeat
- 4. Nuclear Protein Extraction 1995
- 5. Nuclear Protein Extraction 1996
- 6. Nuclear Protein Extraction-small scale

 **Oligo Protocols**

- 1. Extraction and Purification of Oligo from Column
- 2. Oligonucleotide Purification Cartridge
- 3. Preparation of Adapter and Insertion into Vector
- 4. Purification of DNA Oligos from Gel
- 5. Reducing Fading of Immunofluorescence During Microscopy

 **pFLASH Phagemids**

- 1. Multifunctional Cat and Luc Reporter Gene Vectors
- 2. pFLASH Phagemids Technical Manual

 **Protein Protocols**

 ***Protein Expression Protocols***

1. Amplification Using CHO Cell Expression Vectors
2. Characterization of Recombinant Vaccinia Viruses and Their Products
3. Generation of Recombinant Baculoviruses and Analysis of the Expressed Proteins
4. Generation of Recombinant Vaccinia Viruses
5. Overview of Protein Expression in Mammalian Cells
6. Overview of the Vaccinia Virus Expression System
7. Purification and Transfection of Baculoviral DNA for Generating Recombinant Viruses
8. Purification of untagged ubiquitin from bacterial cells
9. Transient Expression of Proteins Using COS Cells
10. Protein Interaction Assay by Blotting and Band-shifting Studies
11. Fractionation of nuclear or cytoplasm proteins
12. Immobilized Protein A
13. Pierce IgG (Protein A) Purification Kit
14. Protein Purification by GST Binding
15. Roche NiNTA protocol

 ***GST-Protein Purification Protocols***

1. Glutathione Sepharose 4B Instructions
 - 1) GST purification
 - 2) Preparation of Large Scale GST-proteins

 **ptTS-Neo Vector Information**

1. Digest 1 of ptTS-Neo
2. Digest 2 of ptTS-Neo
3. ptTS-Neo Vector Information
4. Sequence Analysis of ptTS-Neo

 **Recipes for Solutions**

1. Recipes

 **Replicating Colonies onto Nitrocellulose Filters**

1. Binding Liberated DNA Protocol
2. Replicating Colonies onto Nitrocellulose Filters

 **Representational Difference Analysis**

1. A Modification of RDA
2. Representational Difference Analysis

 **RNA Related Protocols**

RNA Gel

 **RNA Gel Shift**

1. E. Coli Ribonuclease III Methods
2. Gel Motility Shift Assay Protocol

 **RNA Isolation**

1. Controlling Ribonuclease Activity
2. DNA Multiprep
3. Electrophoresis of RNA Through Gels Containing Formaldehyde
4. Extraction, Purification, and Analysis of mRNA from Eukaryotic Cells
5. Gel Electrophoresis of RNA
6. Hybridization and Autoradiography
7. Isolation of mRNA from Mammalian Cells
8. Isolation of mRNA from Suspension of Cells to RNAzol B
9. Isolation of Total Cellular RNA
10. Isolation of Total RNA from Cultured Cells
11. Life Technology Trizol RNA and DNA Isolation
12. Nuclease-S1 Mapping of RNA
13. RNA Isolation by the RNAzol B Method
14. RNAzol B Isolation of RNA
15. Selection of Poly(A) RNA
16. Staining RNA After Transfer to Nitrocellulose Filters
17. Staining RNA Before and After Transfer to Nitrocellulose Filters
18. Straight A's mRNA Isolation System
19. Transfer of Denatured RNA to Nitrocellulose Filters
20. Transfer of Denatured RNA to Nylon Membranes
21. Ultraspec-II RNA Isolation System

 **RNA Preparation from B-Lymphocytes**

1. RNA Preparation from B-Lymphocytes

 **RT PCR**

1. RT PCR

 **Sequencing Protocols**

1. Dideoxysequencing Using Sequenase
2. SEQUAGEL Sequencing System

 **Serum-Related Protocols**

1. Serum Treatment for Tissue Culture
2. B-Cell Preparation
3. Isolation of Human T Cell Populations by Panning
4. Preparation of AET-Sheep Red Blood Cells
5. T-Cell Rosetting by AET-Sheep Red Blood Cells
6. Transfection of P3HR1
7. Virus Infection
8. Virus Preparation

 **Southern Blotting**

1. 50 mL Rehybridization
2. Gene Screen Plus
3. Nucleic Acid Transfers for BIOTRANS Nylon Membranes
4. PCR Analysis from Rich
5. Southern Blots by Lee
6. Stripping Probes from Blots

 **SYBR Green Information**

1. SYBR Safe DNA Gel Stain MSDS
2. SYBR Safe DNA Gel Stain Order Information
3. SYBR Safe DNA Gel Stain Product Sheet

 **Taq Polymerase Preparation**

1. Gene Choice Fact Sheet - Taq DNA Polymerase
2. Grimm and Arbuthnot - Rapid Purification of Recombinant Taq
3. Guidelines for Use of Robertson Lab Recombinant Taq Polymerase
4. Pluthero - Purification of Taq
5. Pluthero - Rapid Purification of Recombinant Taq
6. Preparation of Taq Polymerase
7. Purification of Taq Expressed in E. coli
8. Taq Amplification Using the pAKTaq Plasmid

 **Transfection Protocols**

1. Liposome-mediated Transfection
2. Transfection of DNA into Eukaryotic Cells

 **Transient Transduction with Adenovirus Poly Lysine (AdpL)**

1. Coupling of Adenovirus to Transferrin-Polylysine DNA Complexes Enhances Gene Delivery and Expression
2. Receptor-mediated Gene Delivery Using Defective or Inactivated Adenovirus Particles
3. Transient Transduction with AdpL
4. Virus Purification
5. Virus Purification on Dextrose Gradients

 **Vent DNA Polymerases**

1. Deep Vent exo DNA Polymerase
2. Using Vent DNA Polymerases to Extend a Primer
3. Vent DNA Polymerase Technical Data Sheet

 **Virus Preparation Protocols**

1. DuPont P1 Packaging System
2. High Yield Method for Isolation of Lambda DNA
3. Lambda Packaging in PLK-A
4. Lentivirus Protocol
5. pQC-tTS-IN Retroviral Vector Information

 **Western Blotting**

1. Detection of Proteins in Gels
2. Detection of Proteins on Blot Transfer Membranes
3. Section 4 - Transfer Conditions
4. Section 5 - Specific Protocols
5. Section 6 - Blotting Membranes
6. Stripping and Reprobing – Amersham
7. Stripping and Reprobing Membranes in Western Blotting
8. Western Blotting - Lysis to Analysis
9. Western Blotting

 **Yeast Protocols**

1. Competent Yeast Cells
2. Direct Transfer of DNA from Yeast to E. coli by Electroporation
3. High Efficiency Yeast Transformation Using RNA as a Carrier
4. Improved Method for Transformation of Intact Yeast Cells
5. Izumi - Yeast Transformation Transfer to E. coli
6. JAGGED1 and JAGGED2 Sequences
7. Protein Interaction Cloning.
8. Transformation of Yeast Cells
9. Yeast Small Scale Transformation