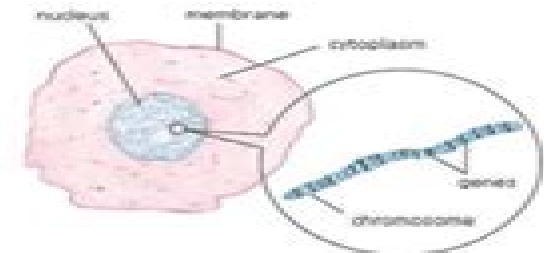


Lab method for extracting DNA from human CHEEK CELLS

See Your DNA = Crack the Code of Life

Materials

- Light colored Gatorade = 10 ml
- Liquid detergent = 1 ml
- Ethyl Alcohol (COLD) = 5 ml (Put on ICE)
- 1 plastic cup
- 1 - 50 ml beakers
- 1 - Graduated cylinder - small
- Glass stirring rod or wooden stick for stirring mixture
- Eye dropper or paper towel – may be needed to remove foam
- Paper clip hook for collecting DNA



1. Pour 10 milliliters of Gatorade into a plastic cup. Take the 10 ml Gatorade and **vigorously** swish it in your mouth, making sure to rub your tongue along your cheeks and chew on your cheek (use your teeth, but **NO BLOOD**) for 30 seconds. This amount of swishing will actually become quite laborious—hang in there! Just remember: "spit happens".
2. **CAREFULLY** spit Gatorade back into cup; then pour 10 ml of spit into clean 50 ml beaker.
3. Add 1 milliliter (15 – 18 drops) of liquid detergent to the beaker.
4. Using stirring rod **gently** mix the contents for 5 minutes. **DO NOT MAKE FOAM**. Use paper towel to remove foam that might be made. *(The detergent will break open the cell membrane to release the DNA into the soapy solution. Do not be too vigorous while mixing! DNA is a very long molecule. Physical abuse can break it into smaller fragments, a process known as shearing.)*
5. Slightly tilt beaker and pour 5 ml fluid ounces of the chilled ethyl alcohol **SLOWLY** down the side of the beaker so that it forms a layer on the top of your soapy solution. **DO NOT TIP, SHAKE, OR MIX THE BEAKER** or you may not see the DNA. *Put beaker down on table and then "get down" and look.*
6. Wait for about 5 minutes and watch as the DNA floats to the surface. If you look to the line of separation between the two layers, or the interface, you will start to see bubbles attached with tiny hair like white strings. These strings are your DNA
7. Use the glass rod or wooden stick to remove DNA from beaker by twirling the rod or stick in a circular motion. Be careful to minimize mixing of alcohol and soapy layers. If too much shearing has occurred, the DNA fragments may be too short to wind up, and they may form clumps instead. Place on paper towel and dry DNA **OR**
8. If time permits, place small sample of DNA on slide; look at it with microscope.



Be sure to share results with all lab partners!!!

TEACHER SIGNATURE: CLEAN UP!!!!

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Pathology of the Head and Neck Antonio Cardesa, Pieter J. Slootweg, Nina Gale, Alessandro Franchi, 2017-02-08 This book provides a comprehensive description of the pathology of the head and neck region concentrating especially on those pathologic entities that are unique to or characteristic of the head and neck The new edition retains the ten chapters of the first edition all updated and improved and additionally contains seven entirely new chapters and a more detailed subject index The number of illustrations has been substantially increased and various lesions absent in the original edition have been included Throughout attention is paid to correlation of pathology with epidemiology clinical features pathogenesis and

molecular genetics Differential diagnosis is addressed and information is also provided on staging prognosis and therapy The authors include foremost experts in the field some of whom are senior members of the Working Group on Head and Neck Pathology of the European Society of Pathology *Gene and Environment Interactions in Neurodevelopmental Disorders* Lorenzo More,Carmem Gottfried,Patricia Pelufo Silveira,2022-04-25 B.A.S.I.C. ,1969 Bibliography of Agriculture with Subject Index ,1995 *Index to Scientific Reviews* ,1974* Semiannual An international interdisciplinary index to the review literature of science medicine agriculture technology and the behavioral sciences Includes literature appearing in about 75 full coverage source journals articles with 40 or more references and marked review references in Science citation index data base SCI format with citation source permuterm corporate patent and anonymous indexes also journal lists

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