

# cellTRAY<sup>®</sup> Science Kit

“Hands-on experiments for inspired science students”

**cellTRAY Science Kits** by Nanopoint offer hands on, Cell Biology experiments designed for middle and high school science students. The turn-key lesson plans expand upon most Biology textbooks and demonstrate important cell biology principals. cellTRAY Science Kits focus on single-step and multiple-step cell staining experiments, gram staining experiments, and DNA experiments (coming soon).

## Why should I use the cellTRAY Science Kit in my classroom?

- Relevant and exciting personalized experiments using a student's own cells
- Stain containment for less mess & easier clean up
- Unbreakable plastic containers for safety
- Easy clean up using mild detergents

## Why should I purchase the cellTRAY Science Kit?

- Conforms to Science Education Standards
- Environmentally-Friendly
- Reusable materials for classrooms of 30 students
- Works with and without student cheek cells
- Step-by-step instructions for both endoderm and epidermis cell experiments

## NSES Standards

Science as Inquiry: Content Standard A

- Identify questions and concepts that guide scientific investigations

- Design and conduct scientific investigations

Life Sciences: Content Standard C

- Cells are enclosed within semi permeable membranes that regulate their interaction with their surroundings

Science and Technology: Content Standard E

- Science advances with introduction of new technologies



*cellTRAY Science Kit Teachers Kit including cellTRAY Dish, slides, cover slips, Trypan Blue stain, and lesson plan.*

## Teacher Kit

The Teachers Kit provides a basic starter kit for the turn-key cell staining experiments. Each kit contains enough materials for the teacher to try the experiment multiple times before introducing the lesson into their classroom. The kit contains:

- 4 cellTRAY Dish slide holders (experiment containers)
- 10ml Trypan Blue stain (non toxic, dead cell, nucleic acid stain) used in place of Iodine or Methylene Blue
- 4 plastic slides and 4 plastic cover slips
- 4 flat wooden toothpicks for capturing cells
- Lesson Plan including step-by-step instructions for the experiment
- List of Materials

## Student Kit

The Student Kit provides “re-usable” material for your classroom. Each Student Kit contains:

- 30 cellTRAY Dish slide holders (experiment containers)
- CD containing student lesson, step-by-step experiment instructions, student activity worksheet, and supplemental reading material

## Frequently asked questions and ordering information

- Bulk order discounts are available. Please contact Nanopoint at (808) 457-1145 or [sales@nanopointimaging.com](mailto:sales@nanopointimaging.com)
- Delivery time is two to four weeks from time of order.
- Nanopoint accepts checks, credit cards, and school district Purchase Orders
- All cellTRAY Dishes are warranted for 6 months against manufacturing defects and will be replaced at no cost in the event of a failure.