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Mammalian Cells Probes And Problems Proceedings Of The ...
Because PNA-DNA hybrids are much more stable than DNA-DNA hybrids, we anticipated that within the living cell, the PNA probe would selectively and competitively form a heteroduplex with telomeric DNA. To introduce the PNA probe into living U2OS cells we made use of glass beads (McNeil and Werder, 1987).

Visualizing telomere dynamics in living mammalian cells ...
Cell Imaging Guide with Protocols (iPad® device version): Find fluorescent dyes, reagents and protocols for cell biology related fluorescence microscopy applications.; Fluorescence SpectraViewer: Plot and compare spectra, check the spectral compatibility for fluorophores and email the configuration to yourself in a clear printable format.; Gibco Cell Culture Companion: Capture and store ...

Mammalian Cell Culture Basics Support | Thermo Fisher ...
For example, patients with Gaucher's disease, a congenic disorder characterized by a lack of the functional enzyme β -glucocerebrosidase, can be treated with Cerezyme, a recombinant enzyme produced in mammalian cells (1).

An Introduction to Mammalian Cell Culture | AICHE
Passage mammalian cells when they are in the log-phase before they reach confluence. Culture is contaminated with mycoplasma: Discard cells, media, and reagents. Obtain new stock of cells, and use them with fresh media and reagents.

Cell Culture Troubleshooting | Thermo Fisher Scientific - US
PROBLEMS OF CULTIVATION OF MAMMALIAN CELLS IN FERMENTORS. In the past few decades there have been great interests in the cultivation of mammalian cells, including human cells in fermentors for the production of biologics for diagnostic and therapeutics used in human health care. This is not a new direction in the progression of fermentation technology but a natural anticipated progress in the field of fermentation technology.

PROBLEMS OF CULTIVATION OF MAMMALIAN CELLS IN FERMENTORS
These compounds were designed based on structural similarity to fluorinated hydrophobic rhodol fluorophores 12 that are known to accumulate in the ER of mammalian cells, Two resorufamines bearing hexyl (HRA) and 2-methoxyethyl (10) substituents could be readily prepared in only two steps from the commercially available fluorophore resorufin, making them highly cost-effective molecular probes. The fluorescence emission of these compounds is red-shifted compared to resorufin, making them ...

Hydrophobic resorufamine derivatives: potent and selective ...
Mammalian cells: probes and problems : Annual Life Sciences Symposium. 0001 : Los Alamos, N.Mex., 17--19.10.1973.

Holdings: Mammalian cells: probes and problems : Annual ...
COMMUNICATION TO THE EDITOR Real Time Monitoring of Multiple Parameters in Mammalian Cell Culture Bioreactors Using an In-Line Raman Spectroscopy Probe Nicholas R. Abu-Absi,¹ Brian M. Kenty,² Maryann Ehly Cuellar,³ Michael C. Borys,¹ Sivakesava Sakhamuri,⁴ David J. Strachan,³ Michael C. Hausladen,² Zheng Jian Lii
iProcess Sciences, Worldwide Medicines Group, Bristol-Myers Squibb Company,

Real Time Monitoring of Multiple Parameters in Mammalian ...
In this study, by using two SM-binding probes, lysenin and EqtII, we examined the subcellular localization of SM in COS-1 cells. The specificity of these probes toward SM in vivo was verified by several approaches that include SMS knockdown, SMase treatment, and treatment with an inhibitor of sphingomyelin synthesis.

Subcellular localization of sphingomyelin revealed by two ...
Using roGFPs, we were unable to demonstrate any response of the redox probes to two growth factor stimuli reported to generate cellular H₂O₂: EGF in NR6 cells or LPA in HeLa cells. Targeting the probe to the plasma membrane or mutating the roGFPs to enhance sensitivity to H₂O₂ failed to uncover sensitivity to EGF in NR6 cells or by LPA in HeLa cells, even though the modified probes still reacted to exogenous oxidants.

Imaging Dynamic Redox Changes in Mammalian Cells with ...
The analysis of protein lipidation, however, is challenging due to the relatively few methods for the detection of lipid-modified proteins. Here we describe the synthesis of ω -azido-fatty acids as non-radioactive chemical probes for the rapid visualization of fatty-acylated proteins in mammalian cells.

Chemical Probes for the Rapid Detection of Fatty-Acylated ...
Design of clickable, photoreactive sterol probes. We reasoned that chemoproteomic probes for mapping cholesterol-binding proteins in living cells would need to possess three general features: 1) a photoreactive group for ultraviolet (UV) light-induced crosslinking to probe-interacting proteins, 2) a latent affinity handle, such as an alkyne group for conjugation to azide-reporter tags by ...

Proteome-wide Mapping of Cholesterol-Interacting Proteins ...
These compounds were designed based on structural similarity to fluorinated hydrophobic rhodol fluorophores that are known to accumulate in the ER of mammalian cells, Two resorufamines bearing hexyl (HRA) and 2-methoxyethyl (10) substituents could be readily prepared in only two steps from the commercially available fluorophore resorufin, making them highly cost-effective molecular probes. The fluorescence emission of these compounds is red-shifted compared to resorufin, making them ...

Hydrophobic resorufamine derivatives: Potent and selective ...
Wortmannin is a specific inhibitor of the phosphatidylinositol (PI) 3-kinase that has been shown to block endocytosis in mammalian cells. 27 It also has been shown to be active in plant cells, where it inhibits protein sorting to the vacuole through action on both the PI 3- and PI 4-kinases. 28 In the cells treated with Wortmannin, the signal of 2 was detected, whereas the signal of 1 was faintly observed (Fig. 4b and Fig. S13, ESI†).