

July 2017 Volume 63 Issue 1

# BioTechniques

The International Journal of Life Science Methods

BioTechniques.com



## Tech News: Using Nanoparticles for Immunotherapy

QC for synthetic  
biology constructs

Template-dependent  
multiple displacement  
amplification

Efficient transfection  
in primary cells

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## POSTER HALL 2017



A COMPILATION OF PROCESS TECHNOLOGIES AND EXPERTISE PRESENTED IN POSTER FORMAT

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## Industry Yearbook

MAb's Global Separation Process Proteins  
 Conjugate Global Separation Purification  
 Downstream Outsourcing Cell Culture  
 Filtration Microbial QbD Personalization  
 Automation Single-Use Vaccines GMP Upstream Formulation Purification Regulatory Viral Safety Fill/Finish  
 Cell Lines Cell Therapies Fermentation Validation Logistics Compliance Production Upstream Formulation Chromatography Separation  
 Manufacturing Follow-On  
 MAb's Analytics Supply Chain  
 Globalization Purification Fermentation Cell Culture Innovation PAT  
 Risk Management Regulatory

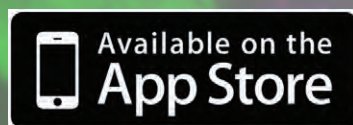
2012 . 2013

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Satisfying a need by life science researchers to have access to an extensive collection of protocols, *BioTechniques* BenchTalk protocols are sorted into technology areas, searchable by keyword, and open to commenting and sharing. A unique Q&A section allows users to ask questions and connect with authors, while *BioTechniques* editors and Editorial Board members provide expert opinions and advice.

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- Microscopy & Imaging
- Molecular Biology
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- Proteomics
- Stem Cells

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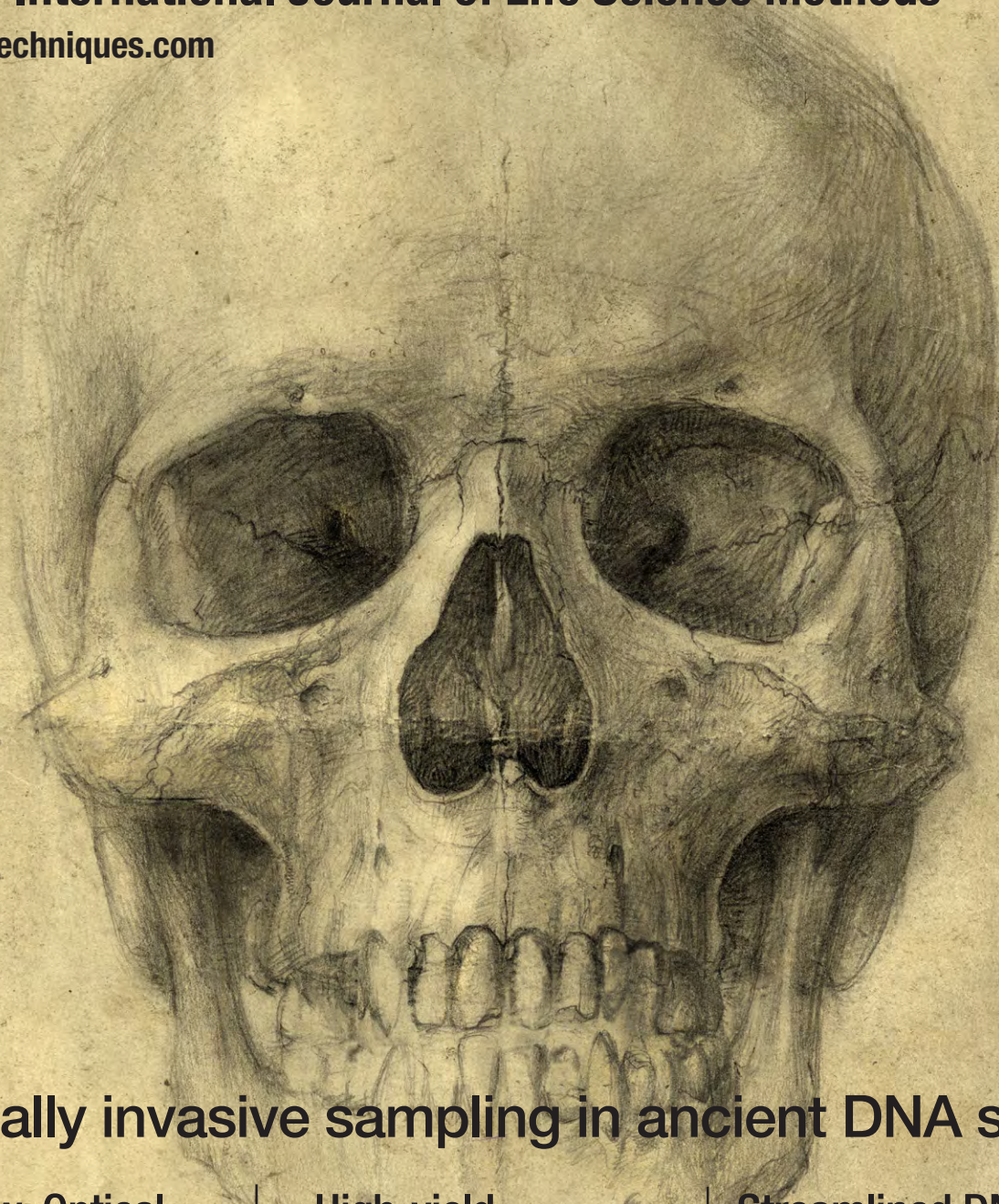
**2018**

**Editorial Calendar & Marketing Planner**

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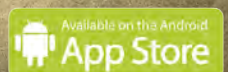


## Minimally invasive sampling in ancient DNA studies

Review: Optical mapping for microbiology

High-yield purification of single-stranded DNA

Streamlined DNA extraction workflow for metagenomics



May 2014 Volume 56 Issue 5

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## Simultaneous protein and mRNA isolation from few cells

Protein  
quantification  
using ImmunoPCR

Efficient construction  
of rAAV-based gene  
therapy vectors

A simple filtration  
technique to obtain  
purified human  
chromosomes



## NEW LOOK, OLD FEEL

I'm not always a fan of change. Why change something that works? I know some would argue that 'new' might be even better, but there is a leap of faith required when making that decision. Which is why when discussion of a BioTechniques redesign first came up, I have to admit, I was concerned. To me, BioTechniques is a wonderful journal providing readers the latest in methods that can be quickly and effectively implemented in the lab. So, why change? Fortunately, we did move ahead with our redesign mission -- which turned out to be an amazing voyage of rediscovering the mission and purpose of the journal.

Welcome to the new look of BioTechniques! While the new design might seem at first glance to be quite a departure from our previous style, there is a rhyme and reason to everything in these pages. Based on extensive feedback from subscribers, we have put a new face on BioTechniques -- one that is designed to both visually impress and maximize content that readers need for their work at the lab bench. You will find a number of our news features have been removed, including the Troubleshooting Forum and the Scientists Profile. Both of these features started in these pages almost a decade ago and in that time much has changed. Realizing this, we made the decision to move these features online, where the articles can be complemented with web links and multimedia resources to enhance their impact.

You will also notice that more pages are being devoted to primary research articles. In an effort to bring more cutting edge information to the readers, and listening to a common request for more methods and technique content, we will be expanding our article offerings in the future and add new article formats, such as our new Protocol Guides, to round out the information delivered to readers every month.

All the changes that you see are based on what is at the heart of BioTechniques -- delivering the best methods and techniques that can be implemented immediately. While the look has changed, we are confident the new format will be engaging, and thought-provoking, and continue to make BioTechniques a fundamental resource in labs across the globe for decades to come. Please share your comments and thoughts with us on the new look and format at [bioeditor@biotechniques.com](mailto:bioeditor@biotechniques.com).

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**BioTechniques** is a peer-reviewed journal dedicated to the publication of original laboratory methods, related technical tools, and methods-oriented review articles that are of broad interest to scientists engaged in basic and applied life science research. Complete Instructions for Authors are available at [bt.EditorialManager.com](http://bt.EditorialManager.com), BioTechniques' website for online manuscript submission. All manuscripts should be submitted at this site.

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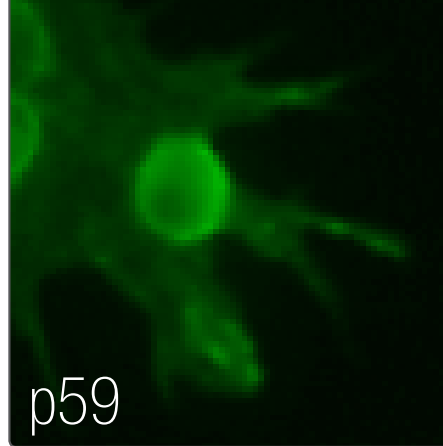
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**Cover: A low power image of neurons differentiated at 37°C from hESC maintained at 35°C.** Green: pan-neuronal marker, red: dopaminergic neuron marker. Image courtesy of G. Belinsky and S. Antic. Design by Genevieve McCarthy.

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## Cancer-fighting bacteria

Ex vivo tissue labeling and  
pathology-guided micropunching

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pH-controlled purification of  
dye-labeled oligonucleotides

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Gas trapping for high-throughput  
metabolic experiments



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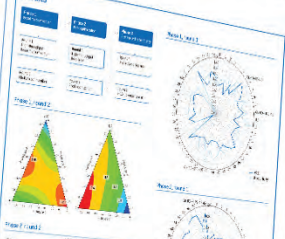
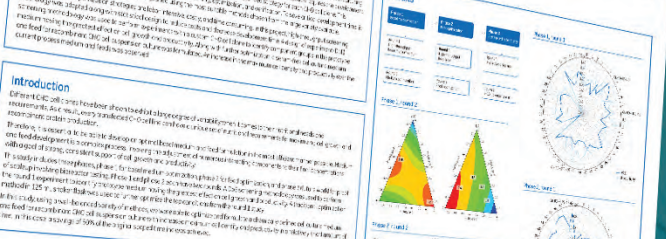
INTERNATIONAL

# POSTER HALL 2015 - 2016



### A rapid and efficient approach to medium and feed optimization increasing CHO antibody production

Reno Bakur, Alicia Elwood, Jessica Anderson, and Mark Wright, *FyCione Cell Culture*, 925 West 1800 South, Logan, Utah 84327, USA



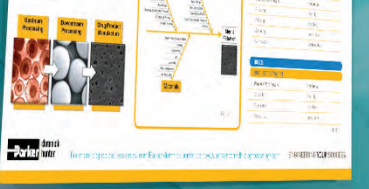
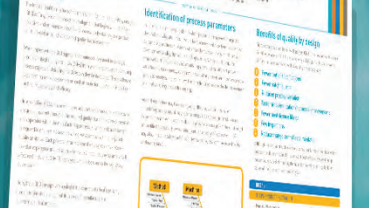
### Discussion

- The 3D surface plot shows the relationship between different variables.
- The 2D line graph shows the effect of a specific parameter.
- The bar chart compares different conditions.

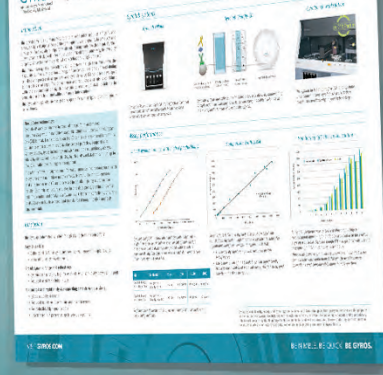
### Conclusions

Parameter	Value	Unit
Cellular protein	1.2	g/L
Productivity	0.8	g/L/d
Yield	1.5	g/L

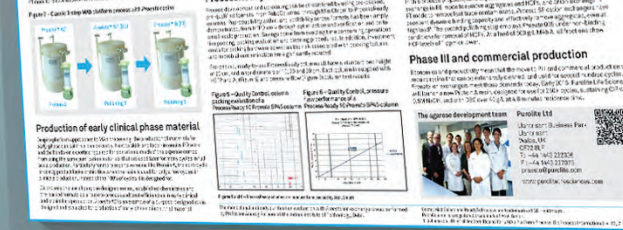
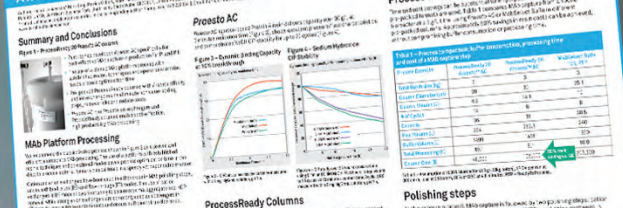
### Application of DoD concepts to a final sterile filtration step



### GYRUS rapid high performance quantification of human IgG using an automated Gyrabot system



### PuroLite Life Sciences A fresh approach to process and cost efficiencies in early clinical and biosimilars production



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SUPPLEMENT TO BIOPROCESS INTERNATIONAL NOVEMBER 2015