

# PLOS

## MEDIA KIT 2021

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**Effective Non-Viral Delivery of siRNA to Acute Myeloid Leukemia Cells with Lipid-Substituted Polyethylenimi...**  
Breanne Landry, Hamidreza Montazeri Altabadi, Anuja Samuel, Hital Gul-Uludağ, Xiaoyan Jiang, Otaf Kutsch, Hasan Uludağ

**Abstract**

**Introduction**

**Materials and Methods**

**Results and Discussion**

**Supporting Information**

**Acknowledgments**

**Author Contributions**

**References**

**Reader Comments (0)**

**Media Coverage (0)**

**Figures**

**2.2 Cell Models and Culture**

The cell lines THP-1, KG-1 and HL-60 cells used as the AML models were obtained from the American Type Culture Collection (Manassas, VA). THP-1 and KG-1 cell were maintained in RPMI medium and HL-60 cells were maintained in DMEM Low Glucose medium. All contained 10% FBS (heat inactivated at 56°C for 30 min) and 1% penicillin/streptomycin under normal conditions (37°C, 5% CO<sub>2</sub> under humidified atmosphere). The cells were maintained at concentrations between 0.1 × 10<sup>5</sup> and 4 × 10<sup>5</sup> cells/ml (modified by hemacytometer cell counts) and by weekly passage by dilution after removing the spent medium with centrifugation at 600 rpm (72 g) for 5 min. To obtain Green Fluorescent Protein expressing THP-1 cells, a retroviral vector expressing enhanced GFP (EGFP) was generated by cloning EGFP into pMSCV-puro (Invitrogen). The murine stem cell virus-based vector was chosen as it provides relatively stable long-term expression of the transgene and is less prone to transcriptional shutdown in THP-1 cells than other retroviral vector systems tested. To generate retroviral particles, pMSCV-EGFP was **transfected** into 293T cells with Fugene HD (Gibco) were provided in trans and VSV-G was utilized as viral coat protein. Retroviral supernatants were harvested 24 h post **transfection** and used to transduce THP-1 cells. The cells were then selected using puromycin and further enriched for EGFP expression using fluorescence activated cell sorting. The resulting GFP-expressing THP-1 cells were cultured as above.

**2.3 Synthesis of Lipid-Substituted Polymers**

The PEI2 polymers substituted with lipids (caprylic acid, CA, palmitic acid, PA, oleic acid, OA, linoleic acid, LA, stearic acid, SA, myristic acid, MA) were prepared in house, where the synthesis and characterization have been previously described [37], [38]. Briefly, a 2 kDa PEI solution (50% in water) was first purified by freeze-drying. Commercially available lipid chlorides (CA, PA, OA, LA, SA and MA) were then substituted by N-acylation of PEI onto the amine groups by addition of the lipid chlorides to 100 mg of PEI in DMSO for 24 h at ambient temperature under argon. To produce a range of substitution levels for each lipid, four different feed ratios were utilized (lipid:polymer = 0.012, 0.066, 0.1 and 0.2) and the polymers were precipitated and washed with excess ethyl ether. The lipid-substituted polymers were dried

NOTE: Highlighting for illustrative purposes only.

During the campaign: You receive detailed monthly PDF reporting going beyond general metrics for non-contextual ad service. Optionally, you can gain direct access to real-time campaign metrics through our Campaign Monitoring service. Besides the transparency we aim to create, this allows you to analyze your campaigns and optimize them to achieve superior results.

**Our breadth of scope and readership boosts the visibility of your message. No matter if you are targeting a small niche area or want to create broad awareness, we help you reach the right audience. Contact us to find out more.**

**“ I am very happy with the results on our end, we saw users requesting samples at a higher rate than many other campaigns we have tried previously. ”**

*-Matt Lowrey / Mirus Bio LLC*

# PLOS 2021 Advertising Opportunities

Format	Dimensions	Locations	Background Color
Leaderboard	728x90	All journal pages	Dark Gray
Skyscraper	160x600	Article pages	White
eTOC Alert	728x90	Above the journal header	White

Contact your sales representative for CPM rates

## Technical Specifications and Guidelines

File Types	Maximum Weight	Minimum Resolution
JPG, GIF and PNG	100K	72dpi
HTML5	200K	72dpi

**1-POINT BORDER:** Ads with a background matching the page background require a 1-point border in a contrasting color

**ALT TEXT:** Provide short copy to display when the ad loads. Example: "Brought to you by COMPANY NAME"

**AUDIO:** Not permitted

### HTML5-BASED ADS:

- **Placement:** Available on PLOS journal websites only (not on eTOC Alerts)
- **One message per banner:** Only one product/job/event announcement per banner permitted
- **Looping:** With the exception of *PLOS ONE* placements, all ads may loop once, at a maximum of 15 seconds and 18 frames/second; *PLOS ONE* allows looping
- **Accompanying static file:** Per UAP guidelines, provide a static version of the ad (JPG, GIF or PNG) as a backup file for browsers or devices that don't support animation

**ART DEADLINES:** Seven (7) days prior to start date

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5.6M+

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Eileen Cox  
ecox@pminy.com  
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### **Ad Operations:**

adops@pminy.com



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1265 Battery Street, Suite 200  
San Francisco, CA 94111 USA  
+ 1 415 624 1200 PHONE

#### **EUROPEAN EDITORIAL OFFICE**

Carlyle House  
Carlyle Road  
Cambridge CB4 3DN UK  
+ 44 0 1223 442 810 PHONE

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