ARIZONA CHAMPIONSHIP
DECEMBER 16-17, 2017

DETAILS
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Improved Small RNA Library Preparation Workflows for Next Generation Sequencing
Samantha Bivens, Jordan K. Henderson, Aniruddha McCaffrey, Gerald Zon, Christian Cleary, Khalil Gassar

Abstract
Next generation sequencing (NGS) is used to analyze microRNAs (miRNAs), small non-coding RNAs that are important therapeutic targets and diagnostic markers. Commercially available small RNA (sRNA) sequencing library preparation kits require large inputs (>100 ng) and a laborious gel purification step, which is not amenable to automation. Additionally, commercial kits are hindered by adapter dimer formation when gel purified. Furthermore, the improved workflow allows RNA inputs as low as 1 ng with less than 1% adapter dimers can greatly diminish usable sequencing reads. Current methods adapters ligate without an intervening target and 3’ OH App ddC

Figure 1: Traditional Small RNA Library Preparation workflow

Figure 2: Adapter-Adapter Ligation Can be Blocked Using Chemically Modified Adapters

Figure 3: Modified Adapters Reduce Adapter Dimer Without Loss of Library Abundance

Figure 4: Unmodified and Modified Adapters Tag a Similar Population of miRNA

Figure 5: Modified Adapters Allow Lower Input Levels

Figure 6: Library Preparation With Modified Adapters is Robust Enough for Use With Samples of Low miRNA Abundance

Figure 7: Trilink Modified Adapters Reduce Adapter Dimer While Maintaining Mapped Reads of Low Inputs

Figure 8: Gel-Free Small RNA Library Preparation is Possible With Trilink Modified Adapters

Figure 9: Trilink Modified Adapters Eliminate Need for Gel Purification

Figure 10: Bead-based Purification Will Allow Automation by Maintaining Mappable Reads While Minimizing Adapter Dimer

Conclusion
• Reduced adapter dimer with modified adapters
• Improved workflows compatible with commercially available lab
• RNA input as low as 1 ng
• Total workflow time 1 hour

Acknowledgments:

References

www.trilinkbiotech.com

The Modified Nucleic Acid Experts
www.trilinkbiotech.com

We’ve always made the highest quality RNA, now we also make the best mRNA Please call us to discuss your path to pharmaceutical GMP manufacturing or visit us at www.trilinkbiotech.com/mRNA for more information.
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• Junior enlisted family center • Lodge
• Child development center • Baby café
• After school dinner program • Before & After school program
• Lights on after dark • Thanksgiving food drive
• Operation Ride Home for Christmas • Welcome baby
• Food pantry emergency assistance • Diapers and baby food program
• Temporary emergency assistance • Holloman AFB Refuel Café, bible studies

SPECIAL EVENTS
ASY STANDS READY TO SUPPORT SERVICE MEMBERS AND THEIR FAMILIES WITH SPECIALIZED PROGRAMS TO FIT THEIR SPECIFIC NEEDS.

May: Armed Services YMCA Golf Classic
September: Family Readiness Volunteer Recognition Ceremony
October: 5K Run

NEWCOMERS BRIEFINGS
- Fort Bliss

TO PARTICIPATE, DONATE, OR VOLUNTEER, VISIT: ASYMCAELPASO.ORG

STRENGTHENING OUR MILITARY FAMILY
ASY IS DEDICATED TO NURTURING THE GROWTH, POTENTIAL AND RESILIENCY OF MILITARY YOUTH THROUGH FUN FILLED CHILDREN’S PROGRAMS.

• Operation Little Learners • Earth Day Parade
• Summer camp activities • STEM learning program
• Summer food program, school is out • Cookies with Santa
• Back to school supplies • Gardening for children program

SPECIAL EVENTS PROGRAM CENTER
- Year around activities
- NEWCOMERS BRIEF MEETINGS
- Fun Night

For information and registration, please contact Diana Bengson at DBengson@asymca.org or (915) 562-8462 ext 351.

Cookies with Santa
December 14, 2018 // 5:30-7:30PM
Annually Toy Giveaway Hosted for Military Children
The children will enjoy the Christmas scene, holiday music and have the opportunity for parents to take a picture of their child with Santal Open to E5 and below with children from infant to 12 years old.

INFORMATION
Register by December 10th
Age Appropriate Toys are Provided
Cookies and Drinks Handed out by Volunteers
Pictures with Santa
Volunteers, Monetary & Toy Donations are Welcomed

CONTACT
Diana Bengson E:DBengson@asymca.org
P: (915) 562-8462 X 351

LOCATION:
ASYMCA PROGRAM CENTER
7061 Comington St. El Paso, TX 79930
Facebook.com/ASYMCAelpaso • @ASYMCAelpaso
Support the ASYMCA of El Paso on Amazon Smile at https://smile.amazon.com/ch/74-1146782

PLEASE REGISTER AT WWW.ASYMCA.ORG/SIGN-IN
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A Baby Boy is Predicted!

PLEASE JOIN US AS WE
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Tammy Orlando
WITH LOVE!

SATURDAY, APRIL 29TH FROM 1-4

15355 WETHERBURN COURT
CENTREVILLE, VA 20120
RSVP TO RAINIE VIA EMAIL OR TEXT
RAINERODD@GMAIL.COM // 703-667-0820
TAMMY IS REGISTERED AT BABIES R US + TARGET

BRI'S BABY
sprinkle

Saturday, March 28th

Big sister has plenty to share, it's just a sprinkle to show we care! Not much is needed, just the basics will do, like diapers, wipes and an outfit or two.

Time: 12:00PM to 3:00PM
Location: 14903 Heath Drive, Poway CA 92064
RSVP: (858) 442-3062 Cherismeal@cox.net