## $(\hat{Q}_{C}^* | aca) * \hat{AO}^* [ { aca} * \hat{AO}^* ] [ { aca} * \hat{AO}^* ]$ & $\hat{A}$ \* $\hat{AS}$ ( $\hat{AO}$ ) & $\hat{AO}$ & $\hat{AO}$

From User	Text	Time
hail_CSER	Now that #CSERandBeyond has concluded, we're looking forward to the next two days' presentations & presentations at our in-person meeting	e 9/29/15 4:09 AM
hail_CSER	RT @BergLabUNC: Katrina Goddard outlining impact of CSER consortium at #CSERandBeyond "Veni vidi vici" @hail_CSER	9/29/15 4:08 AM
hail_CSER	RT @BergLabUNC: #CSERandBeyond what a great day of looking at the past, present and future of CSER and (?) CSER II @hail_CSER	9/29/15 1:50 AM
clesemartin	RT @mattmight: I suggest that if we're not sure what patients want, we ask them, leaving all options on the table. #CSERandBeyond	9/28/15 11:56 PM
hashisNme	RT @mattmight: Eric Green says genome sequencing is heading toward mainstream clinical use, just 25 years since launch of HGP. #CSERandBeyo	9/28/15 11:44 PM
bertrandmight	RT @BergLabUNC: @mattmight at #CSERandBeyond "I'm not here to make your life any easier I'm actually here to make your life more diffic	9/28/15 11:04 PM
bertrandmight	RT @granitehead: from #medX to #CSERandbeyond, @mattmight on community building and advancing science in #raredisease world, storytelling	9/28/15 11:04 PM

drbachinsky	RT @Coriell_Science: Great discussion at #CSERandbeyond today - watch live at http://t.co/qTDuqi8rV7 https://t.co/O9BYPLxaah	9/28/15 10:51 PM
bertrandmight	RT @mattmight: Eric Green says genome sequencing is heading toward mainstream clinical use, just 25 years since launch of HGP. #CSERandBeyo	9/28/15 10:46 PM
bertrandmight	RT @granitehead: Roadmap: #genomic research, services and obligation by @RobertCGreen streaming at #CSERandbeyond https://t.co/lzp6Zyi1Es	9/28/15 10:45 PM
bertrandmight	RT @BergLabUNC: Robert Green: "CSER is the conscience of the biotech tsunami that is coming" @hail_CSER #CSERandBeyond	9/28/15 10:45 PM
bertrandmight	RT @mattmight: I suggest that if we're not sure what patients want, we ask them, leaving all options on the table. #CSERandBeyond	9/28/15 10:45 PM
bertrandmight	RT @Coriell_Science: Great discussion at #CSERandbeyond today - watch live at http://t.co/qTDuqi8rV7 https://t.co/O9BYPLxaah	9/28/15 10:45 PM
bertrandmight	RT @BergLabUNC: #CSERandBeyond what a great day of looking at the past, present and future of CSER and (?) CSER II @hail_CSER	9/28/15 10:45 PM
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BergLabUNC	#CSERandBeyond what a great day of looking at the past, present and future of CSER and (?) CSER II @hail_CSER	9/28/15 10:24 PM
granitehead	@SallyOkun there was a great discussion re the value of diagnosis (especially molecularly based) economically today at #CSERandbeyond	I 9/28/15 9:57 PM
BergLabUNC	@hail_CSER Re: clinical sequencing - are you a "visionary whiner" or an "enthusiastic skeptic"? Maybe a little of both? #CSERandBeyond	9/28/15 9:38 PM
BergLabUNC	@hail_CSER Re: clinical sequencing - are you a "visionary whiner" or an "enthusiastic skeptic"? Maybe a little of both? #CSERandBeyond	9/28/15 9:38 PM
steven1701	RT @mattmight: I suggest that if we're not sure what patients want, we ask them, leaving all options on the table. #CSERandBeyond	9/28/15 8:38 PM
granitehead	RT @RobertCGreen: @deverka: discussing sequencing: "there is no cost-effectiveness without effectiveness" #cserandbeyond #hail_CSER	9/28/15 8:25 PM
RobertCGreen	@deverka: discussing sequencing: "there is no cost-effectiveness without effectiveness" #cserandbeyond #hail_CSER	9/28/15 8:23 PM
klbergst	RT @mattmight: I suggest that if we're not sure what patients want, we ask them, leaving all options on the table. #CSERandBeyond	9/28/15 8:16 PM

BergLabUNC	At #CSERandBeyond - getting down to the bottom \$, can CSER provide evidence to payers to support coverage of clinical sequencing?  @hail_CSER	9/28/15 8:12 PM
anne_bruns	RT @mattmight: I suggest that if we're not sure what patients want, we ask them, leaving all options on the table. #CSERandBeyond	9/28/15 7:39 PM
anne_bruns	RT @mattmight: I suggest that if we're not sure what patients want, we ask them, leaving all options on the table. #CSERandBeyond	9/28/15 7:39 PM
Coriell_Science	Great discussion at #CSERandbeyond today - watch live at http://t.co/qTDuqi8rV7 https://t.co/O9BYPLxaah	9/28/15 7:39 PM
euanashley	RT @mattmight: I suggest that if we're not sure what patients want, we ask them, leaving all options on the table. #CSERandBeyond	9/28/15 7:36 PM
RobertCGreen	@cdbustamante #CSERandbeyond: no model describes variant distribution around the world, it requires empirical testing across ethnicities	9/28/15 7:26 PM
LauraBraden2	RT @mattmight: I suggest that if we're not sure what patients want, we ask them, leaving all options on the table. #CSERandBeyond	9/28/15 7:21 PM
chaosape	RT @mattmight: I suggest that if we're not sure what patients want, we ask them, leaving all options on the table. #CSERandBeyond	9/28/15 7:20 PM

alsadvocacy	RT @mattmight: I suggest that if we're not sure what patients want, we ask them, leaving all options on the table. #CSERandBeyond	9/28/15 7:10 PM
EranKabakov	RT @mattmight: I suggest that if we're not sure what patients want, we ask them, leaving all options on the table. #CSERandBeyond	9/28/15 7:10 PM
mattmight	I suggest that if we're not sure what patients want, we ask them, leaving all options on the table. #CSERandBeyond	9/28/15 7:10 PM
granitehead	economics and value of #MDx #NGS 2B streamed 250-340 today 9/28 Moderators: Katrina Armstrong from MGH, Sharon Plon @splon #cserandbeyond	9/28/15 7:02 PM
enlightenbio	RT @granitehead: Sharon Plon: #wearenotwaiting T1D and crowdsourcing tools and data #CSERandbeyond cc:@danamlewis	9/28/15 6:46 PM
RTWeRNotWaiting	RT @granitehead: Sharon Plon: #wearenotwaiting T1D and crowdsourcing tools and data #CSERandbeyond cc:@danamlewis	9/28/15 6:45 PM
granitehead	Sharon Plon: #wearenotwaiting T1D and crowdsourcing tools and data #CSERandbeyond cc:@danamlewis	9/28/15 6:44 PM
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granitehead	from #medX to #CSERandbeyond , @mattmight on community building and advancing science in #raredisease world, storytelling at its best	9/28/15 6:36 PM
BergLabUNC	@mattmight at #CSERandBeyond "I'm not here to make your life any easier I'm actually here to make your life more difficult" @hail_CSER	9/28/15 6:25 PM
granitehead	Psychosocial outcomes of #NGS, eg: consent & mp; incidental results now streaming #hcldr #CSERandbeyond https://t.co/lzp6Zyi1Es cc: @wilbanks	9/28/15 6:17 PM
granitehead	Psychosocial outcomes of #NGS, eg: consent & amp; incidental results now streaming #hcldr #CSERandbeyond https://t.co/lzp6Zyi1Es cc: @wilbanks	9/28/15 6:17 PM
ishanekamonet	RT @BergLabUNC: Robert Green: "CSER is the conscience of the biotech tsunami that is coming" @hail_CSER #CSERandBeyond	9/28/15 5:47 PM
BergLabUNC	Robert Green: "CSER is the conscience of the biotech tsunami that is coming" @hail_CSER #CSERandBeyond	9/28/15 5:36 PM
granitehead	transform genomic phenotyping taxonomy to current biologic systems based knowledge #cserandbeyond	9/28/15 5:30 PM
granitehead	transform genomic phenotyping taxonomy to current biologic systems based knowledge #cserandbeyond	9/28/15 5:30 PM

granitehead	NiH undiagnosed disease network #cserandbeyond #rarediseases http://t.co/2IOUDMJFEJ	9/28/15 5:17 PM
granitehead	Genomic Variants: @euanashley you cant fix it if you cant see it, #cserandbeyond	9/28/15 5:15 PM
granitehead	Roadmap: #genomic research, services and obligation by @RobertCGreen streaming at #CSERandbeyond https://t.co/lzp6Zyi1Es	9/28/15 5:10 PM
BergLabUNC	@euanashley at #CSERandBeyond "we've arrived" - but how do we get from "here" to "there"?	9/28/15 5:08 PM
BergLabUNC	Robert Green discussing Gartner hype cycle and Maloney's 16% rule at #CSERandBeyond @hail_CSER	9/28/15 5:00 PM
BergLabUNC	Robert Green discussing Gartner hype cycle and Maloney's 16% rule at #CSERandBeyond @hail_CSER	9/28/15 5:00 PM
bozenberger	#CSERandBeyond Heidi R comment: WES or WGS interpretation requires phenotype, need dynamic interaction between lab and clinician	9/28/15 4:40 PM
CharleenDAdams	RT @genome_gov: Live @ 8:15 a.m. Integrating Genomic Sequencing into Clinical Care: CSER and Beyond http://t.co/bKXVWKo3SH #hail_CSER, #CS	9/28/15 4:03 PM

mcleodhoward	"Capturing the outcome is the most difficult and expensive part of precision medicine implementation ". Dr Mary Relling #CSERandBeyond	I 9/28/15 3:39 PM
hail_CSER	RT @genome_gov: Live @ 8:15 a.m. Integrating Genomic Sequencing into Clinical Care: CSER and Beyond http://t.co/bKXVWKo3SH #hail_CSER, #CS	9/28/15 3:26 PM
BergLabUNC	Dan Masys quoting Larry Weed "We practice healthcare as if we never wrote anything down" #CSERandBeyond	9/28/15 3:12 PM
BergLabUNC	Dan Masys quoting Larry Weed "Modern healthcare is a spectacle of fragmented intention" #CSERandBeyond	9/28/15 3:12 PM
IgorCarron	RT @mattmight: Eric Green says genome sequencing is heading toward mainstream clinical use, just 25 years since launch of HGP. #CSERandBeyo	9/28/15 2:40 PM
SteveJoffe	@granitehead https://t.co/gqNvijmfEO #CSERandBeyond	9/28/15 2:39 PM
BergLabUNC	Katrina Goddard outlining impact of CSER consortium at #CSERandBeyond "Veni vidi vici" @hail_CSER	9/28/15 2:34 PM
granitehead	Carolyn Hutter spoke of the July workshop URL, does anyone have that available? thnx #CSERandBeyond	9/28/15 2:19 PM

mcleodhoward	A big challenge with clinical genomics are the Variants of Almost Known Significance #VAKS. @genome_gov #CSERandBeyond	9/28/15 2:15 PM
BergLabUNC	Future opportunities for clinical sequencing at scale: http://t.co/F6nvOgkptB being discussed at #CSERandBeyond	9/28/15 2:11 PM
granitehead	progress: Agenda today #CSERandbeyond Genomic Clin Decision support, beyond manual curation http://t.co/U6I3w1h0n4 https://t.co/53iarRkFJC	9/28/15 2:07 PM
mattmight	Eric Green says genome sequencing is heading toward mainstream clinical use, just 25 years since launch of HGP. #CSERandBeyond	9/28/15 1:39 PM
BergLabUNC	Eric Green kicking off #CSERandBeyond reminds us that October 1st is the 25th anniversary of the launch of the human genome project.	9/28/15 1:29 PM
StephenJWillia2	RT @genome_gov: Live @ 8:15 a.m. Integrating Genomic Sequencing into Clinical Care: CSER and Beyond http://t.co/bKXVWKo3SH #hail_CSER, #CS	9/28/15 1:03 PM
genome_gov	Live @ 8:15 a.m. Integrating Genomic Sequencing into Clinical Care: CSER and Beyond http://t.co/bKXVWKo3SH #hail_CSER, #CSERandBeyond	9/28/15 1:00 PM
genome_gov	Live @ 8:15 a.m. Integrating Genomic Sequencing into Clinical Care: CSER and Beyond http://t.co/bKXVWKo3SH #hail_CSER, #CSERandBeyond	9/28/15 1:00 PM

## #CSERandBeyond

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CSER @hail\_CSER · 13h

Now that #CSERandBeyond has concluded, we're looking forward to the next two days' presentations & discussions at our in-person meeting



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Berg Lab at UNC-CH @BergLabUNC · 18h

**#CSERandBeyond** what a great day of looking at the past, present and future of CSER and (?) CSER II @hail\_CSER

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Robert C. Green @RobertCGreen · 20h

@deverka: discussing sequencing: "there is no cost-effectiveness without effectiveness" #cserandbeyond #hail\_CSER



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Coriell Institute @Coriell\_Science · 21h

Great discussion at #CSERandbeyond today - watch live at genome.gov/27562330

Robert C. Green @RobertCGreen

@cdbustamante #CSERandbeyond: no model describes variant distribution around the world, it requires empirical testing across ethnicities

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Robert C. Green @RobertCGreen · 21h

@cdbustamante #CSERandbeyond: no model describes variant distribution around the world, it requires empirical testing across ethnicities



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Matt Might @mattmight · 22h

I suggest that if we're not sure what patients want, we ask them, leaving all options on the table. #CSERandBeyond

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brett johnson @granitehead · 22h

Sharon Plon: #wearenotwaiting T1D and crowdsourcing tools and data #CSERandbeyond cc:@danamlewis

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Berg Lab at UNC-CH @BergLabUNC · 23h

Robert Green: "CSER is the conscience of the biotech tsunami that is coming" @hail\_CSER #CSERandBeyond

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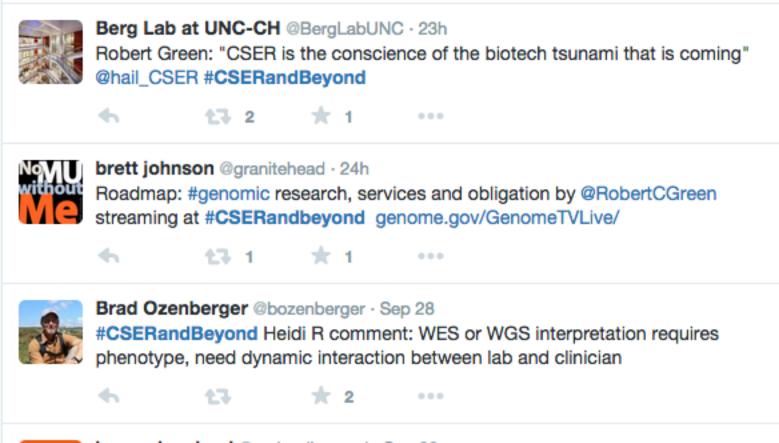
brett johnson @granitehead · 24h

Roadmap: #genomic research, services and obligation by @RobertCGreen streaming at #CSERandbeyond genome.gov/GenomeTVLive/



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## howard mcleod @mcleodhoward · Sep 28

"Capturing the outcome is the most difficult and expensive part of precision medicine implementation ". Dr Mary Relling #CSERandBeyond

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"Veni vidi vici" @hail CSER

Steve Joffe @SteveJoffe · Sep 28 @granitehead genome.gov/27558042 #CSERandBeyond

Berg Lab at UNC-CH @BergLabUNC · Sep 28

Katrina Goddard outlining impact of CSER consortium at #CSERandBeyond

View conversation

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howard mcleod @mcleodhoward · Sep 28

A big challenge with clinical genomics are the Variants of Almost Known Significance #VAKS. @genome\_gov #CSERandBeyond

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brett johnson @granitehead · Sep 28

progress: Agenda today #CSERandbeyond Genomic Clin Decision support, beyond manual curation genome.gov/Multimedia/Sli...

## Matt Might @mattmight

Eric Green says genome sequencing is heading toward mainstream clinical use, just 25 years since launch of HGP. #CSERandBeyond

Matt Might @mattmight · Sep 28

Eric Green says genome sequencing is heading toward mainstream clinical use, just 25 years since launch of HGP. #CSERandBeyond

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genome\_gov @ @genome\_gov · Sep 28

Live @ 8:15 a.m. Integrating Genomic Sequencing into Clinical Care: CSER and Beyond genome.gov/GenomeTVLive/ #hail\_CSER, #CSERandBeyond

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