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3. sherischully



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4. bozenberger



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5. ewanbirney



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8. kevinadavies




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9. splon  RT [@SheriSchully](#): Watch Now: meeting on the future of NHGRI's Genome Sequencing Program [#GSPfuture](#) <http://t.co/kCID60IXPH> [@genome_gov](#) [@hail...](#)
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10. obahcall  Green: Post HGP, major focus areas range from basic discovery for genome structure & disease to clinical/genomic medicine [#GSPFuture](#)
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11. granitehead  Discuss the future of [#genomic](#) research NHGRI [#gspfuture](#) [#ngs](#) [#personalizedmedicine](#)
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12. drbachinsky  RT [@bozenberger](#): Future of large-scale sequencing research at NHGRI. Discussion now at <http://t.co/iWgh97W2gS> [#GSPfuture](#) [@hail_CSER](#)
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13. notsojunkdna  mostly junk, then? RT [@obahcall](#): Eric Green: strategic planning is in our DNA [@genome_gov](#) [#GSPFuture](#)
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14. splon  [#GSPfuture](#) Green: Characteristics sequencing programs. Large scale, Consortia-oriented, highly managed, resource-generating, Tech advancing
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15. obahcall  Green: Charact features of the GSP: large in scale, consortia oriented, highly managed, resource generating, technology advancing [#GSPFuture](#)
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16. markgerstein  Green: Interesting factoid: More more money spent at NIH on [#genomics](#) outside of NHGRI than within [#GSPfuture](#)
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17. elvin_estrada  Watching and participating in [#GSPfuture](#)
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18. splon  [@splon](#) Green pt 3 - Going forward. Retain 7 characteristics of past while moving on past areas organism seq, cancer & microbiome. [#GSPfuture](#)
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19. obahcall  Green: Expects continue be 'genomic trailblazers', but after we have blazed that trail need to move on. Align with strategic plan [#GSPFuture](#)
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20. elvin_estrada  RT [@obahcall](#): Green: Expects continue be 'genomic trailblazers', but after we have blazed that trail need to move on. Align with strategic ...
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21. elvin_estrada  RT [@markgerstein](#): Green: Interesting factoid: More more money spent at NIH on [#genomics](#) outside of NHGRI than within [#GSPfuture](#)
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22. elvin_estrada  RT [@genome_gov](#): Watch July 28-29 meeting on the future of NHGRI's Genome Sequencing Program via live webcast! [#GSPfuture](#) <http://t.co/QOOm6u...>
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23. elvin_estrada  RT [@obahcall](#): Eric Green: strategic planning is in our DNA [@genome_gov](#) [#GSPFuture](#)
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24. cshperspectives  RT [@markgerstein](#): Green: Interesting factoid: More more money spent at NIH on [#genomics](#) outside of NHGRI than within [#GSPfuture](#)
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25. lizworthey  RT [@markgerstein](#): Green: Interesting factoid: More more money spent at NIH on [#genomics](#) outside of NHGRI than within [#GSPfuture](#)
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26. ewanbirney  Eric's focus on resource development and scale; contrast to the scale discussion (more genomics happening outside of NHGRI) [#GSPfuture](#)
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27. bozenberger  [#GSPfuture](#) EGreen- Moving on from microbes, cancer?!?! Understand need to move on after catalyzing fields, but hope not too fast.
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28. obahcall  Green: We cant do all of Genomics. Considering ways to do more cost-sharing for projects/programs with partners to broaden impact [#GSPFuture](#)
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29. cshperspectives  NHGRI meeting on Genome Sequencing & Beyond being webcast live <http://t.co/rAwtGV3Lta> ht [@ewanbirney](#) [#GSPfuture](#)
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30. furnox  RT [@cshperspectives](#): NHGRI meeting on Genome Sequencing & Beyond being webcast live <http://t.co/rAwtGV3Lta> ht [@ewanbirney](#) [#GSPfuture](#)
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31. obahcall  Green: Genomics community has created numerous opportunities, but we can't pursue them all. Will be tough decisions ahead. [#GSPFuture](#)
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32. genome_gov  Adam Felsenfeld, NHGRI, provides background/orientation next. [#GSPfuture](#)
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33. sherischully  RT [@obahcall](#): Green: Genomics community has created numerous opportunities, but we can't pursue them all. Will be tough decisions ahead. [#G...](#)
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35. sargoshoe  RT [@markgerstein](#): Green: Interesting factoid: More more money spent at NIH on [#genomics](#) outside of NHGRI than within [#GSPfuture](#)
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36. obahcall  [#GSPFuture](#) 1st ? is from [@ewanbirney](#) What are the boundaries of 'Genomics' here? Green: not want to drift far away from genomic technologies
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37. lizworthey  RT [@obahcall](#): Green: Genomics community has created numerous opportunities, but we can't pursue them all. Will be tough decisions ahead. [#G...](#)
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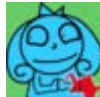
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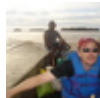
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43. glyn_dk



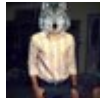
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44. pemelton



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45. elvin_estrada



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46. omicsomicsblog



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47. obahcall



















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48. noadruck



















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49. ewanbirney  RT [@bozenberger](#): Felsenfeld Council says acknowledge history of program but don't be bound by it [#GSPfuture](#)
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50. bozenberger  Mike Boehnke: Discovering Variants Conferring Risk for Common Diseases: results of large-scale seq studies beginning to emerge [#GSPfuture](#)
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51. ewanbirney  Mike Boenke sets the scene for common disease; it's important. Many loci found (amazing really) [#GSPfuture](#)
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52. ewanbirney  (I remember the meetings ~15 years ago, when this was not clear, and it wasn't clear this approach was going to work at all [#GSPfuture](#))
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53. dnadigest  RT [@markgerstein](#): Green: Interesting factoid: More more money spent at NIH on [#genomics](#) outside of NHGRI than within [#GSPfuture](#)
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56. hmtme  RT [@genome_gov](#): Watch/tweet July 28-29 meeting on the future of NHGRI's Genome Sequencing Program! [#GSPfuture](#) <http://t.co/5gVt8xnG4x>
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59. dnadigest  RT [@obahcall](#): Green: Genomics community has created numerous opportunities, but we can't pursue them all. Will be tough decisions ahead. #G...
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63. obahcall  MB: Beyond sample size, study design matters. Case control or Cohorts, each have advantages, not mutually exclusive [#GSPFuture](#)
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67. obahcall  MB: Beyond sample size, careful study design matters. Deep phenotyping. Broad consent. Power considerations. Multiple populations [#GSPFuture](#)
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68. elvin_estrada  RT [@bozenberger](#): Boehnke: sample size, sample size, sample size [#GSPfuture](#)
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69. ewanbirney  MB: Rapid data sharing is very important; aggregating data to maximise utility. Broad consent is key [#GSPfuture](#)
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70. ewanbirney  (comment on that - also need bioinformatics infrastructure. This is cheap compared to the sequencing/genotype/sample coll) [#GSPfuture](#)
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71. markgerstein  Boenke mentions: LOF mutations in SLC30A8 protect against T2D <http://t.co/MDfaLqkvul>
Power of combining data for mult. variants [#GSPfuture](#)
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72. byrnafyrna  RT [@obahcall](#): Boehnke Key lesson is sample size, sample size, sample size. Key determinant of success for genetic discovery for common dise...
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73. johnpharmd  RT [@obahcall](#): Mike Boehnke on genetic discovery for common disease: now is good time to plan, with experience from GWAS & rare variant stud...
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74. lizworthey  RT [@ewanbirney](#): MB: Rapid data sharing is very important; aggregating data to maximise utility. Broad consent is key [#GSPfuture](#)
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75. genomeresearch  RT [@cshperspectives](#): NHGRI meeting on Genome Sequencing & Beyond being webcast live <http://t.co/LqzogtmNh3> ht [@ewanbirney](#) [#GSPfuture](#)
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76. lizworthey  RT [@bozenberger](#): Boehnke: sample size, sample size, sample size [#GSPfuture](#)
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77. johnpharmd  RT [@obahcall](#): MB: Beyond sample size, study design matters. Case control or Cohorts, each have advantages, not mutually exclusive [#GSPFuture](#)
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80. sherischully  RT [@obahcall](#): MB: Rapid data sharing most import legacy of HGP. Now go beyond depositing data, aggregate to max utility. Need broad consen...
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81. bozenberger  MB: Avoid false dichotomies. NHGRI should be leader! Great comment. This stuff isn't as easy as it looks. [#GSPfuture](#)
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82. granitehead  [@obahcall](#) [#gspfuture](#) MB: allowing call back of patients (w consent) is key to moving forward. (data share and sample re-use)
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83. ajhgnews  RT [@bozenberger](#): Boehnke: sample size, sample size, sample size [#GSPfuture](#)
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84. sherischully  RT [@bozenberger](#): Boehnke: sample size, sample size, sample size [#GSPfuture](#)
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86. lizworthey  Michael Boehnke: Time to invest more in Bioinformatics and computational science training [#GSPfuture](#)
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87. drkhourycdc  [#GSPfuture](#)- Boehnke on future of Genome sequencing discovery or translation? we need both (virtuous cycle)[@genome_gov](#) <http://t.co/Lr8t2xlach>
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88. misstriciag  RT [@DrKhouryCDC](#): [#GSPfuture](#)- Boehnke on future of Genome sequencing discovery or translation? we need both (virtuous cycle)[@genome_gov](#) [http...](http://t.co/Lr8t2xlach)
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89. bozenberger  MB: risk of fragmentation of science, reduction in data standards, data availability, if NHGRI diminishes role in LS sequencing. [#GSPfuture](#)
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90. sherischully  RT [@ewanbirney](#): MB: Rapid data sharing is very important; aggregating data to maximise utility. Broad consent is key [#GSPfuture](#)
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91. drkhourycdc  [#GSPfuture](#)- Evans on future of genome sequencing: we sometimes wave our hands at translation [@genome_gov](#) <http://t.co/rCrPRmZoGL>
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92. geneticsgsa  [.@genome_gov](#) holding workshop on future opportunities for genome sequencing and beyond. Watch live at <http://t.co/ybqF5X4t61> [#GSPfuture](#)
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93. genome_gov  McKinnes on the genomic basis of Mendelian disorders. [@solvemendelian](#) [#GSPfuture](#)
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94. lizworthey  RT [@genome_gov](#): McKinnes on the genomic basis of Mendelian disorders. [@solvemendelian](#) [#GSPfuture](#) <http://t.co/bKXVWKGd6P>
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95. sherischully  [#GSPfuture](#) M. Boehnke: sample size, data sharing and integration will be the key for the future of genomics.
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96. elvin_estrada  RT [@lizworthey](#): Michael Boehnke: Time to invest more in Bioinformatics and computational science training [#GSPfuture](#)
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99. stanleycenter  RT [@obahcall](#): Boehnke Key lesson is sample size, sample size, sample size. Key determinant of success for genetic discovery for common dise...
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100. ma_ko  RT [@lizworthey](#): Roderick McKinnes: Discussing importance of Non protein coding genes for disease etiology discovery including Mendelian dis...
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101. bozenberger  Mendelian Centers have studied 6,421 families (half of datasets currently in dbGaP). Impressive. [#GSPfuture](#)
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103. cdshaffer  RT [@genomeresearch](#): RT [@cshperspectives](#): NHGRI meeting on Genome Sequencing & Beyond being webcast live <http://t.co/LqzogtmNh3> ht [@ewanbirn...](#)
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115. splon  Fixed [#McInnes](#) - ~5% of papers in NEJM in the last year are discovery of new Mendelian diseases. [#GSPfuture](#)
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116. girlscientist  RT [@bozenberger](#): Mendelian Centers have studied 6,421 families (half of datasets currently in dbGaP). Impressive. [#GSPfuture](#)
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117. markgerstein  McKinnes mentions Mendelian Loci Contribute to Complex Disease <http://t.co/QB01EOcVSf>
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118. bozenberger  McKinnes: Gene therapy is here. 1,966 trials underway. [#GSPfuture](#)
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119. cuencam  RT [@obahcall](#): MB: Beyond sample size, careful study design matters. Deep phenotyping. Broad consent. Power considerations. Multiple populat...
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120. sherischully  RT [@bozenberger](#): McKinnes: Gene therapy is here. 1,966 trials underway. [#GSPfuture](#)
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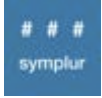


121. bozenberger  RT [@splon](#): Fixed # McInnes - ~5% of papers in NEJM in the last year are discovery of new Mendelian diseases. [#GSPfuture](#)
[Mon Jul 28 7:20:39 PDT 2014](#) [ReplyRetweetFavorite](#)
122. ewanbirney  Dan Roden talking about Mendelian disease genetics. Estimates there are at least 7,000 Mendelian conditions (rises ~300/year) [#GSPfuture](#)
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123. genome_gov  RT [@bozenberger](#): McKinnes: Gene therapy is here. 1,966 trials underway. [#GSPfuture](#)
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124. bronwynterri  RT [@ewanbirney](#): Dan Roden talking about Mendelian disease genetics. Estimates there are at least 7,000 Mendelian conditions (rises ~300/yea...
[Mon Jul 28 7:23:40 PDT 2014](#) [ReplyRetweetFavorite](#)
125. bushbykate  Interesting discussions! [@genome_gov](#): Watch July 28-29 meeting future of NHGRI Genome Sequencing Program! [#GSPfuture](#) <http://t.co/TNtKMtj6so>
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126. girlscientist  +1: Rod McInnes stressing importance of clinicians and proper phenotyping (and sub-p-typing) prior to big genomic studies. [#GSPfuture](#)
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127. dnadigest  RT [@bozenberger](#): Mendelian Centers have studied 6,421 families (half of datasets currently in dbGaP). Impressive. [#GSPfuture](#)
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128. dnadigest  RT [@genome_gov](#): McKinnes on the genomic basis of Mendelian disorders. [@solvemendelian](#) [#GSPfuture](#) <http://t.co/bKXVWKGd6P>
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129. cshperspectives  Rod McInnes: "No questions from The Broad!" [#GSPfuture](#)
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130. immaqua  RT [@bozenberger](#): Boehnke: sample size, sample size, sample size [#GSPfuture](#)
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131. elvin_estrada  RT [@bozenberger](#): McKinnes: Gene therapy is here. 1,966 trials underway. [#GSPfuture](#)
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132. ewanbirney  (sorry - not Dan - Roderic McInnes. Need more coffee! [#GSPfuture](#))
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133. genome_gov  Dan Roden on genome sequencing for clinical care. <http://t.co/bKXVWKGd6P> [#GSPfuture](#)
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134. bozenberger  Dan Roden: applying sequencing to clinical care; comments relating to CSER, IGNITE, UDN, eMERGE, other programs. [#GSPfuture](#) [#hail_CSER](#)
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135. piwdb  RT [@bozenberger](#): Boehnke: sample size, sample size, sample size [#GSPfuture](#)
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136. ewanbirney  Now Dan Roden talking about implementing sequencing into healthcare (in the US) [#GSPfuture](#)
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137. sherischully  RT [@ewanbirney](#): Now Dan Roden talking about implementing sequencing into healthcare (in the US) [#GSPfuture](#)
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138. ewanbirney  Roderic drew the analogy between Mendelian disease gene discovery and Mouse and Yeast knockouts [#GSPfuture](#)
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139. jose_oliver  RT [@cshperspectives](#): NHGRI meeting on Genome Sequencing & Beyond being webcast live <http://t.co/rAwTGV3Lta> ht [@ewanbirney](#) [#GSPfuture](#)
[Mon Jul 28 7:36:11 PDT 2014](#) [ReplyRetweetFavorite](#)
140. sherischully  Dan Roden: Discussing the implementation of genomic sequencing into clinical care. [#GSPfuture](#) [@hail_CSER](#)
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141. drkhourycdc  RT [@genome_gov](#) Roden: genome sequencing for healthcare [#IGNITE](#) [#EMERGE](#) [#CSER](#)
<http://t.co/EfIOWZ5zr6> [#GSPfuture](#)
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142. granitehead  [@bozenberger](#) IGNITE (Implementing [#genomics](#) in practice) w [#EMR](#) and decision support [#gspfuture](#) <http://t.co/ivVrreHAYn>
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143. bozenberger  Roden: NHGRI resource ClinGen - remedy big problem of annotated variant database, sharing of variants from clinical labs [#GSPfuture](#)
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144. drkhourycdc  [#GSPfuture](#)- Roden: Implementing genomic sequencing in clinical care [#EMERGE](#) [#IGNITE](#) [@hail_CSER](#) <http://t.co/EfIOWZ5zr6> [@genome_gov](#)
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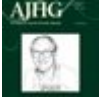


145. sherischully  RT [@DrKhouryCDC](#): [#GSPfuture](#)- Roden: Implementing genomic sequencing in clinical care [#EMERGE](#) [#IGNITE](#) [@hail_CSER](#) <http://t.co/Ef1OWZ5zr6> @...
Mon Jul 28 7:42:28 PDT 2014 [ReplyRetweetFavorite](#)
146. hbrc_ucl  RT [@DrKhouryCDC](#): [#GSPfuture](#)- Roden: Implementing genomic sequencing in clinical care [#EMERGE](#) [#IGNITE](#) [@hail_CSER](#) <http://t.co/Ef1OWZ5zr6> @...
Mon Jul 28 7:45:43 PDT 2014 [ReplyRetweetFavorite](#)
147. cshperspectives  Great twitter handle for Clinical Sequencing Exploratory Research consortium: [@hail_CSER](#) [#GSPfuture](#)
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148. sawerkar  RT [@bozenberger](#): McKinnes: Gene therapy is here. 1,966 trials underway. [#GSPfuture](#)
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149. markgerstein  Roden: Current rate of incidental findings in CSER ([@hail_CSER](#)) is ~3% (to 6%). Quite relevant for [#ELSI](#) issues [#GSPfuture](#)
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150. genome_gov  Roden mentioned GM 6: for videos/slides of Global Leaders in Genomic Medicine meeting go to: <http://t.co/MW4ivN962S> [#GSPfuture](#)
Mon Jul 28 7:50:37 PDT 2014 [ReplyRetweetFavorite](#)
151. bozenberger  Roden: what is an actionable variant? potential for poor and costly care if sequencing done inappropriately (important consider.) [#GSPfuture](#)
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152. drkhourycdc  [#GSPfuture](#) Roden: Implementing genome sequencing in practice : what to do with data? [#utility](#) [#translation](#) [#outcomes](#) <http://t.co/fYZcSAX3GO>
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153. granitehead  DR: how to update patients on reinterpretation of genomic data over time? is being discussed [#gspfuture](#) [#patientengagement](#)
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154. sherischully  RT [@DrKhouryCDC](#): [#GSPfuture](#) Roden: Implementing genome sequencing in practice : what to do with data? [#utility](#) [#translation](#) [#outcomes](#) http...
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155. ksenapathy  RT "[@genome_gov](#): Dan Roden on [#genome](#) sequencing for clinical care. <http://t.co/OpjrsJUhsM> [#GSPfuture](#)"
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156. kmeltzsteinberg  Instead of music today listening to [#GSPfuture](#) (<https://t.co/S5n16wfRgM>)
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157. sherischully  RT [@bozenberger](#): Roden: what is an actionable variant? potential for poor and costly care if sequencing done inappropriately (important con...
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158. ewanbirney  Dan put up a great slide about cohort/population ready to for sequencing. Goes from 50,000 to 5 million in Denmark. Go Denmark. [#GSPfuture](#)
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159. healthhashtags  New Health Hashtag: [#GSPfuture](#) <http://t.co/GxDF4J0c1m> Thank you [@genome_gov](#) [#hcs](#)
["Future Opportunities for Genome Sequencing and Beyond: A](#)
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160. lizworthey  RT [@markgerstein](#): Roden: Current rate of incidental findings in CSER ([@hail_CSER](#)) is ~3% (to 6%). Quite relevant for [#ELSI](#) issues [#GSPfuture](#)
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



161. brcaumbrella  RT @DrKhouryCDC: #GSPfuture Roden: Implementing genome sequencing in practice : what to do with data? #utility #translation #outcomes http...
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162. brcaumbrella  RT @genome_gov: Dan Roden on genome sequencing for clinical care.
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163. sherischully  J. Ecker discusses functional genomics #GSPfuture
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164. geneinsight  RT @ewanbirney: Dan Roden talking about Mendelian disease genetics. Estimates there are at least 7,000 Mendelian conditions (rises ~300/yea...
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165. genome_gov  RT @SheriSchully: J. Ecker discusses functional genomics #GSPfuture
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166. healthhashtags  Today's Healthcare Conferences: #changechampionsABC #AOE14 #GSPfuture #WCSP14
<http://t.co/mSOpacqXAg> #hcsn
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167. bozenberger  Joe Ecker's talk reminds us how very much we still don't know about genome function.
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168. genome_gov  Ecker: Common Fund projects to id variants -- epigenomic project GTEx LICS and 4D Nucleome @NIH CommonFund #GSPfuture
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169. elvin_estrada  RT [@bozenberger](#): Joe Ecker's talk reminds us how very much we still don't know about genome function. [#GSPfuture](#)
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170. girlscientist  I love nuclear organization stuff! [@JoeEcker](#) says to watch for the 4D Nucleome project, <http://t.co/1OGojP9EJ1>. [#GSPfuture](#)
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171. genome_gov  Ecker: Common Fund projects to id variants -- Epigenomic Project, GTEx LINCS and 4D Nucleome [@NIH_CommonFund](#) [#GSPfuture](#)
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172. nih_commonfund  RT [@genome_gov](#): Ecker: Common Fund projects to id variants -- Epigenomic Project, GTEx LINCS and 4D Nucleome [@NIH_CommonFund](#) [#GSPfuture](#)
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173. hail_cser  RT [@DrKhouryCDC](#): [#GSPfuture](#)- Roden: Implementing genomic sequencing in clinical care [#EMERGE](#) [#IGNITE](#) [@hail_CSER](#) <http://t.co/Ef10WZ5zr6> @...
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174. genome_gov  RT [@girlscientist](#): I love nuclear organization stuff! [@JoeEcker](#) says to watch for the 4D Nucleome project, <http://t.co/1OGojP9EJ1>. [#GSPfutu...](#)
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175. elvin_estrada  RT [@girlscientist](#): I love nuclear organization stuff! [@JoeEcker](#) says to watch for the 4D Nucleome project, <http://t.co/1OGojP9EJ1>. [#GSPfutu...](#)
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176. markgerstein  Ecker mentions: Design principles of regulatory sequences <http://t.co/KgJspJXeKC> for schematics on how to follow up reg. variants [#GSPfuture](#)
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177. dnatimes  RT [@KMeltzSteinberg](#): Instead of music today listening to [#GSPfuture](#) (<https://t.co/S5n16wfRgM>)
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178. cathcoste  RT [@markgerstein](#): Ecker mentions: Design principles of regulatory sequences <http://t.co/KgJspJXeKC> for schematics on how to follow up reg. ...
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179. rocky_7  RT [@markgerstein](#): Ecker mentions: Design principles of regulatory sequences <http://t.co/KgJspJXeKC> for schematics on how to follow up reg. ...
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180. ewanbirney  [@JoeEcker](#) talking about the importance of phasing - long range phasing - for regulatory region \leftrightarrow gene relationships [#GSPfuture](#)
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181. atheistjj  RT [@KMeltzSteinberg](#): Instead of music today listening to [#GSPfuture](#) (<https://t.co/S5n16wfRgM>)
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182. ewanbirney  Joe now onto the latest amazing gift to molecular biology, CRISPR (discovered in bacteria, on a very basic research grant!) [#GSPfuture](#)
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183. ajhgnews  RT [@genome_gov](#): Ecker: Common Fund projects to id variants -- Epigenomic Project, GTEx LINCS and 4D Nucleome [@NIH_CommonFund](#) [#GSPfuture](#)
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184. lsuchcamp  RT [@genome_gov](#): Ecker: Common Fund projects to id variants -- Epigenomic Project, GTEx LINCS and 4D Nucleome [@NIH_CommonFund](#) [#GSPfuture](#)
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185. elvin_estrada  CRISPR/CIS9 is an interesting molecular tools, now discussed at [#GSPfuture](#)
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186. sherischully  RT [@ewanbirney](#): Joe now onto the latest amazing gift to molecular biology, CRISPR (discovered in bacteria, on a very basic research grant!)...
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187. elvin_estrada  CRISPR/Cas9 is an interesting molecular tools, now discussed at [#GSPfuture](#) . Represent the future of gene manipulation/editing
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188. kevinadavies  Fabulous LIVE webcast on future of genome sequencing programs going on right now
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189. elvin_estrada  RT [@KevinADavies](#): Fabulous LIVE webcast on future of genome sequencing programs going on right now [@genome_gov](#) [#GSPfuture](#) <https://t.co/xQBc...>
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190. ajhgnews  RT [@KevinADavies](#): Fabulous LIVE webcast on future of genome sequencing programs going on right now [@genome_gov](#) [#GSPfuture](#) <https://t.co/xQBc...>
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191. edinsasic  RT [@KevinADavies](#): Fabulous LIVE webcast on future of genome sequencing programs going on right now [@genome_gov](#) [#GSPfuture](#) <https://t.co/xQBc...>
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192. marcelokauffman  RT [@splon](#): Fixed # McInnes - ~5% of papers in NEJM in the last year are discovery of new Mendelian diseases. [#GSPfuture](#)
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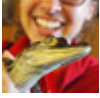





193. genomenathan  RT [@KevinADavies](#): Fabulous LIVE webcast on future of genome sequencing programs going on right now [@genome_gov](#) [#GSPfuture](#) <https://t.co/xQBc...>
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194. mclafave  The audience shots of the [@genome_gov](#) [#GSPfuture](#) meeting is like a Who's Who of genomics: <http://t.co/E6riWcEdSe>
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195. mayoclinicgenes  RT [@splon](#): Fixed # McInnes - ~5% of papers in NEJM in the last year are discovery of new Mendelian diseases. [#GSPfuture](#)
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196. inspirethegenom  RT [@bozenberger](#): McKinnes: Gene therapy is here. 1,966 trials underway. [#GSPfuture](#)
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197. cshperspectives  Ecker: "Looking at Mike Snyder's genome...he should be dead!" [#GSPfuture](#)
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198. markgerstein  [@JoeEcker](#) mentions: Basis for...blond hair color <http://t.co/A1jvi8tesJ> %20 in KITLG expression due to LEF-enhancer SNP [#GSPfuture](#)
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199. bozenberger  A call from Ecker and the audience for getting function of every variant. Feasible? Maybe? Compare to early genotyping days. [#GSPfuture](#)
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200. johnpharmd  [@obahcall](#) Orli, looking ahead on agenda to today's [#GSPFuture](#) breakout groups, do you know who'll be tweeting from each/any of the groups?
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201. obahcall  [@joecker](#) & [@cdbustamante](#) discuss eg of KITLG enhancer in mech of assoc to blond hair color <http://t.co/d4QKpMauph> #NatGen #GSPFuture
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202. billare  RT [@KevinADavies](#): Fabulous LIVE webcast on future of genome sequencing programs going on right now [@genome_gov](#) #GSPfuture <https://t.co/xQBc...>
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203. becausebiology  RT [@markgerstein](#): Ecker mentions: Design principles of regulatory sequences <http://t.co/KgJspJXeKC> for schematics on how to follow up reg. ...
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204. becausebiology  RT [@girlscientist](#): I love nuclear organization stuff! [@JoeEcker](#) says to watch for the 4D Nucleome project, <http://t.co/1OGojP9EJ1>. #GSPfutu...
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205. cjfields  RT [@ewanbirney](#): Joe now onto the latest amazing gift to molecular biology, CRISPR (discovered in bacteria, on a very basic research grant!)...
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206. billare  RT [@ewanbirney](#): Dan Roden talking about Mendelian disease genetics. Estimates there are at least 7,000 Mendelian conditions (rises ~300/yea...
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207. daleyuzuki  RT [@KevinADavies](#): Fabulous LIVE webcast on future of genome sequencing programs on right now [@genome_gov](#) #GSPfuture <http://t.co/srIrudx6rO>
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208. ayannamonte  RT [@KevinADavies](#): Fabulous LIVE webcast on future of genome sequencing programs going on right now [@genome_gov](#) #GSPfuture <https://t.co/xQBc...>
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209. mendelspod  RT [@KevinADavies](#): Fabulous LIVE webcast on future of genome sequencing program right now [@genome_gov](#) [#GSPfuture](#) <http://t.co/L10Qhr15KA>
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210. medhawkapp  RT [@healthhashtags](#): Today's Healthcare Conferences: [#changechampionsABC](#) [#AOE14](#) [#GSPfuture](#) [#WCSP14](#) <http://t.co/mSOpacqXAq> [#hscsm](#)
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211. illumina  RT [@KevinADavies](#): Fabulous LIVE webcast on future of genome sequencing programs going on right now [@genome_gov](#) [#GSPfuture](#) <https://t.co/xQBc...>
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212. kristinclift  RT [@BushbyKate](#): Interesting discussions! [@genome_gov](#): Watch July 28-29 meeting future of NHGRI Genome Sequencing Program! [#GSPfuture](#) <http://...>
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213. girlscientist  Corrected tag: Now at [#GSPfuture](#): watch [@ewanbirney](#) lead a bunch of genomicists in discussion, and ask questions of himself!
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214. girlscientist  Another enthusiastic +1! Mike Snyder says we need well-defined cohorts and sub-phenotypes, with autism as an example. [#GSPfuture](#)
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215. girlscientist  Evan Eichler repeating a point we heard over and over at IMFAR: families participating in autism research want to be engaged. [#GSPfuture](#)
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216. sherischully  [@ewanbirney](#) wraps up the morning's discussion and asks for gaps. [#GSPfuture](#)
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217. bluefloridian  RT [@girlscientist](#): Another enthusiastic +1! Mike Snyder says we need well-defined cohorts and sub-phenotypes, with autism as an example. #G...
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218. kmeltzsteinberg  EEE: not all variation is single nucleotide variation--structural variation important and not always assayed well. #GSPfuture
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219. sherischully  R. Chilsholm: if we are going to discuss "deep phenotyping", we need to discuss how we define it. #GSPfuture
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220. dgmacarthur  RT [@KMeltzSteinberg](#): Instead of music today listening to #GSPfuture (<https://t.co/S5n16wfRgM>)
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221. dgmacarthur  RT [@splon](#): Fixed # McInnes - ~5% of papers in NEJM in the last year are discovery of new Mendelian diseases. #GSPfuture
[Mon Jul 28 10:32:25 PDT 2014](#) [ReplyRetweetFavorite](#)
222. dgmacarthur  Debbie Nickerson tackling a critical obstacle to modern genomic research: lack of broad consent from study participants. #GSPfuture
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223. johnpharmd  RT [@dgmacarthur](#): Debbie Nickerson tackling a critical obstacle to modern genomic research: lack of broad consent from study participants. #...
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224. kmeltzsteinberg  RT [@dgmacarthur](#): Debbie Nickerson tackling a critical obstacle to modern genomic research: lack of broad consent from study participants. #...
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225. oshaer  RT [@dgmacarthur](#): Debbie Nickerson tackling a critical obstacle to modern genomic research: lack of broad consent from study participants. #...
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226. dnatimes  [@dgmacarthur](#) re Debbie Nickerson, surprised broad consent is the goal instead of dynamic consent - dynamic consent scales [#GSPfuture](#)
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227. dgmacarthur  Teri Manolio: large-scale sequencing of Million Veterans Project is "a non-starter" for NIH due to closed data policies. Bravo. [#GSPfuture](#)
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228. galenwright  Good point by [@splon](#) regarding the need for recruiting representative cohorts for seq studies rather than Eurocentric ones [#GSPfuture](#)
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230. lizworthey  RT [@GalenWright](#): Good point by [@splon](#) regarding the need for recruiting representative cohorts for seq studies rather than Eurocentric ones...
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233. lizworthey  RT [@splon](#): Fixed # McInnes - ~5% of papers in NEJM in the last year are discovery of new Mendelian diseases. [#GSPfuture](#)
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237. abutchy  RT [@dgmacarthur](#): Debbie Nickerson tackling a critical obstacle to modern genomic research: lack of broad consent from study participants. #...
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239. gawbul  RT [@dgmacarthur](#): Debbie Nickerson tackling a critical obstacle to modern genomic research: lack of broad consent from study participants. #...
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242. lizworthey  RT [@dgmacarthur](#): David Altshuler: traditional separation of Mendelian vs complex diseases has led to overestimation of penetrance for mutat...
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243. girlscientist  Next time, [@ewanbirney](#), you should enforce a laptop ban for the hour of discussion, so people will participate. :) [#GSPfuture](#)
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244. dgmacarthur  RT [@cshperspectives](#): Ecker: "Looking at Mike Snyder's genome...he should be dead!"
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245. edinsasic  Livestream: "Future Opportunities for Genome Sequencing and Beyond"
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246. bozenberger  Robt Green: CSER program entering realm of public health, demonstrating value. challenging.
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247. bushbykate  RT [@dgmacarthur](#): Debbie Nickerson: we need to think about how to really engage patients, families and the rare disease community in research...
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248. edinsasic  Livestream: "Future Opportunities for Genome Sequencing and Beyond"
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252. stationxinc  RT [@markgerstein](#): Green: Interesting factoid: More more money spent at NIH on [#genomics](#) outside of NHGRI than within [#GSPfuture](#)
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254. ibellieve  RT [@dgmacarthur](#): Debbie Nickerson: we need to think about how to really engage patients, families and the rare disease community in research...
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257. kmeltzsteinberg  EEE points out that the word "evolution" hasn't been brought up until this point and is surprised by that [#GSPfuture](#) . Me too!
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258. genome_gov  Evan Eichler: The word evolution hasn't been uttered yet. We've somewhat lost our way. Translation at expense of basic biology. [#GSPfuture](#)
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261. obahcall  Evan Eichler asks why no discussion at [#GSPFuture](#) on genome evolution? Have lost sight of importance of fundamental biology?
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262. markgerstein  RT [@genome_gov](#): Evan Eichler: The word evolution hasn't been uttered yet. We've somewhat lost our way. Translation at expense of basic biol...
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263. genome_gov  Live webcast resumes tonight at 7:30 to 9. July 29 webcast starts at 8:30 a.m. [Breakout sessions will not be webcast.] [#GSPfuture](#)
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264. genomebc  RT [@EdinSasic](#): Livestream: "Future Opportunities for Genome Sequencing and Beyond"
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268. xosegb  RT [@dgmacarthur](#): Teri Manolio: large-scale sequencing of Million Veterans Project is "a non-starter" for NIH due to closed data policies. B...
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270. thefpr_org  RT [@dgmacarthur](#): David Altshuler: traditional separation of Mendelian vs complex diseases has led to overestimation of penetrance for mutat...
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275. elearlybird  RT [@genome_gov](#): Evan Eichler: The word evolution hasn't been uttered yet. We've somewhat lost our way. Translation at expense of basic biol...
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276. nikhilwagle  RT [@dgmacarthur](#): Debbie Nickerson: we need to think about how to really engage patients, families and the rare disease community in researc...
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277. evolvability  RT [@dgmacarthur](#): Teri Manolio: large-scale sequencing of Million Veterans Project is "a non-starter" for NIH due to closed data policies. B...
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278. evolvability  RT [@dgmacarthur](#): Debbie Nickerson: we need to think about how to really engage patients, families and the rare disease community in researc...
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279. piwdb  RT [@dgmacarthur](#): David Altshuler: traditional separation of Mendelian vs complex diseases has led to overestimation of penetrance for mutat...
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283. scsanderson  RT [@obahcall](#): MB: Beyond sample size, careful study design matters. Deep phenotyping. Broad consent. Power considerations. Multiple populat...
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284. cathcoste  RT [@bozenberger](#): Future of large-scale sequencing research at NHGRI. Discussion now at <http://t.co/iWgh97W2gS> [#GSPfuture](#) [@hail_CSER](#)
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285. johnhawks  RT [@genome_gov](#): Evan Eichler: The word evolution hasn't been uttered yet. We've somewhat lost our way. Translation at expense of basic biol...
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288. joomomics  RT [@obahcall](#): Evan Eichler asks why no discussion at [#GSPFuture](#) on genome evolution? Have lost sight of importance of fundamental biology?
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291. omicsomicsblog  RT [@ewanbirney](#): MB: Rapid data sharing is very important; aggregating data to maximise utility. Broad consent is key [#GSPfuture](#)
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292. omicsomicsblog  RT [@ewanbirney](#): Dan put up a great slide about cohort/population ready to for sequencing. Goes from 50,000 to 5 million in Denmark. Go Denm...
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302. biochemistries  Loved the casual reference to Albert Camus at [#GSPfuture](#) today regarding design of GWAS studies; "we are all special cases"
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303. alfons_valencia  RT [@ewanbirney](#): Dan put up a great slide about cohort/population ready to for sequencing. Goes from 50,000 to 5 million in Denmark. Go Denm...
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304. dgmacarthur  RT [@cshperspectives](#): Great twitter handle for Clinical Sequencing Exploratory Research consortium: [@hail_CSER](#) [#GSPfuture](#)
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314. dnatimes  RT [@genome_gov](#): Live now: the Broad's Aviv Regev on the need for a Human Cell Atlas. <http://t.co/b1uc3Aax2U> [#GSPfuture](#)
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322. granitehead  [@obahcall](#) [#gspfuture](#) that was just plain fun. Science, data and foresight as to providing a foundation for the future.
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328. genome_gov  Last livecast tonight: UW's Daniel Masys: New Forms of Knowledge Representation for Genomic Sequence. [#GSPfuture](#)
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331. granitehead  [@obahcall](#) comment by D. Altshuler dont get bogged w multiplexed data of what we can measure.. "what should we be measuring" #gspfuture
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332. bozenberger  Dan Masys makes me realize how crazy it is in today's world that I sent a fax to my primary care doc today!?! #brokenhealthcare #GSPfuture
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340. bwiedwards  RT [@cshperspectives](#): Great twitter handle for Clinical Sequencing Exploratory Research consortium: [@hail_CSER](#) [#GSPfuture](#)
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341. neogendk  RT [@obahcall](#): Boehnke Key lesson is sample size, sample size, sample size. Key determinant of success for genetic discovery for common dise...
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343. geneticcounsel  RT [@genome_gov](#): McKinnes on the genomic basis of Mendelian disorders. [@solvemendelian](#) [#GSPfuture](#) <http://t.co/bKXVWKGd6P>
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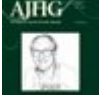





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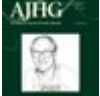


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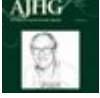



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463. jxtx  RT [@PaulFlicek](#): Eichler: Genome Reference Consortium work is not housekeeping. It is foundation for genomic medicine. [#GSPfuture](#)
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464. scsanderson  Thanks to all those tweeting [#GSPfuture](#) today! Interesting discussion, visions for future of genomics [@genome_gov](#) [@hail_CSER](#) [@eMERGENetwork](#)
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465. xosegb  RT [@PaulFlicek](#): Eichler: Genome Reference Consortium work is not housekeeping. It is foundation for genomic medicine. [#GSPfuture](#)
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466. nextgenseek  Eichler: In ten/x years, we wont be aligning to a genome, but will be assembling single genomes. [#GSPfuture](#)
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467. xosegb  RT [@ewanbirney](#): A huge underlying theme in the NHGRI [#GSPfuture](#) meeting is the implicit (common) and explicit (rarer) need for bioinformati...
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468. nextgenseek  RT [@girlscientist](#): <gasp> David Haussler points out that famous Moore's law/cost of sequence slide does not reflect REAL GENOMES. cc [@deann...](#)
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469. chiragjp  "How the environment interacts the with genome?" need to address in [#GSPfuture](#) cc [@NIEHS](#)
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470. granitehead  [@priya4genes](#) leading to genome assembly rather than alignment of regions as the standard of analysis [#gspfuture](#)
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471. xosegb  RT [@nextgenseek](#): Eichler: In ten/x years, we wont be aligning to a genome, but will be assembling single genomes. [#GSPfuture](#)
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472. dnadigest  What is the standard today for accessing and sharing human genomics data? Have your say: <http://t.co/nqym1mqygp> [#GSPFuture](#)
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473. dnadigest  RT [@nextgenseek](#): Eichler: In ten/x years, we wont be aligning to a genome, but will be assembling single genomes. [#GSPfuture](#)
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474. girlscientist  Eichler: our reporting group feels sequencing archaic genomes will happen whether NHGRI invests or not, so not a focus for [#GSPfuture](#). Hmm.
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475. pjacock  RT [@ewanbirney](#): A huge underlying theme in the NHGRI [#GSPfuture](#) meeting is the implicit (common) and explicit (rarer) need for bioinformati...
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476. mcaccamo  RT [@PaulFlicek](#): Eichler: Genome Reference Consortium work is not housekeeping. It is foundation for genomic medicine. [#GSPfuture](#)
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477. tair_news  RT [@ewanbirney](#): A huge underlying theme in the NHGRI [#GSPfuture](#) meeting is the implicit (common) and explicit (rarer) need for bioinformati...
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478. timjph  RT [@ewanbirney](#): A huge underlying theme in the NHGRI [#GSPfuture](#) meeting is the implicit (common) and explicit (rarer) need for bioinformati...
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479. dnadigest  RT [@ewanbirney](#): A huge underlying theme in the NHGRI [#GSPfuture](#) meeting is the implicit (common) and explicit (rarer) need for bioinformati...
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480. oshaer  RT [@dgmacarthur](#): Debbie Nickerson: we need to think about how to really engage patients, families and the rare disease community in researc...
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481. j9_austin  RT [@girlscientist](#): Altshuler: NHGRI funds research, not implementation. [@splon](#): we need \$ for impl. research or genomic med won't happen. +...
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482. yaser1040  RT [@PaulFlicek](#): Eichler: Genome Reference Consortium work is not housekeeping. It is foundation for genomic medicine. [#GSPfuture](#)
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483. piwdb  RT [@KMeltzSteinberg](#): Andy Clark: Evolution is the single most powerful unifying principle in biology including genetics. [#GSPfuture](#)
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484. nicktatonetti  RT [@chiragjp](#): "How the environment interacts the with genome?" need to address in [#GSPfuture](#) cc [@NIEHS](#)
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485. scsanderson  MT [@SheriSchully](#) [@splon](#) need real-world [#data](#) on when [#genomic](#) testing adds value to care [@hail_CSER](#) [#GSPfuture](#) [#utility](#) [#risks](#) [#benefits](#)
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486. billare  RT [@nextgenseek](#): Eichler: In ten/x years, we wont be aligning to a genome, but will be assembling single genomes. [#GSPfuture](#)
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487. girlscientist  Thanks again to all speakers and discussers of [#GSPfuture](#) today. I'm watching to get ideas for [#ASHG15](#)! Never too early...
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488. granitehead  [@DNADigest](#) data sharing is getting better, but quality interpretation in the clinic needs assembly reference 4 decision support [#gspfuture](#)
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489. genomeresearch  MT [@ewanbirney](#): A huge underlying theme in the NHGRI [#GSPfuture](#) meeting is the implicit and explicit need for bioinformatics infrastructure
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490. aindap  [@genome_gov](#) , did the live feed to [#GSPfuture](#) just stop?
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491. dnadigest  RT [@granitehead](#): [@DNADigest](#) data sharing is getting better, but quality interpretation in the clinic needs assembly reference 4 decision su...
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492. aphilippy  RT [@ewanbirney](#): A huge underlying theme in the NHGRI [#GSPfuture](#) meeting is the implicit (common) and explicit (rarer) need for bioinformati...
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493. albinocoffee  RT [@genomeresearch](#): MT [@ewanbirney](#): A huge underlying theme in the NHGRI [#GSPfuture](#) meeting is the implicit and explicit need for bioinfor...
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494. abbottmd  RT [@granitehead](#): [@DNADigest](#) data sharing is getting better, but quality interpretation in the clinic needs assembly reference 4 decision su...
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495. scalefreegan  RT [@genome_gov](#): Evan Eichler: The word evolution hasn't been uttered yet. We've somewhat lost our way. Translation at expense of basic biol...
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496. bertrandmight  RT [@girlscientist](#): Gail Jarvik: if we don't get genomic medicine into clinic then NHGRI has failed in mission to improve health outcomes. #...
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







497. grdo_ireland  RT @DNADigest: What is the standard today for accessing and sharing human genomics data? Have your say: <http://t.co/nqym1mqygp> #GSPFuture
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498. grdo_ireland  RT @PaulFlicek: Eichler: Genome Reference Consortium work is not housekeeping. It is foundation for genomic medicine. #GSPfuture
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499. nextgenseek  RT @aindap: @genome_gov , did the live feed to #GSPfuture just stop?
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500. vaillancourtlab  RT @genomeresearch: MT @ewanbirney: A huge underlying theme in the NHGRI #GSPfuture meeting is the implicit and explicit need for bioinfor...
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501. vaillancourtlab  RT @KMeltzSteinberg: Andy Clark: Evolution is the single most powerful unifying principle in biology including genetics. #GSPfuture
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502. bertrandmight  RT @PaulFlicek: Eichler: Genome Reference Consortium work is not housekeeping. It is foundation for genomic medicine. #GSPfuture
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503. deannachurch  RT @PaulFlicek: Eichler: Genome Reference Consortium work is not housekeeping. It is foundation for genomic medicine. #GSPfuture
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504. dnadigest  RT @markgerstein: .@KMeltzSteinberg @PaulFlicek Eichler: "Assessing *all* human genetic variation... should be a goal." #gspfuture
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506. dnadigest  RT [@GholsonLyon](#): Maynard Olson making cogent point at [#GSPfuture](#). Notes huge disparity between rest of online world & current state of geno...
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507. galenwright  RT [@PaulFlicek](#): Eichler: Genome Reference Consortium work is not housekeeping. It is foundation for genomic medicine. [#GSPfuture](#)
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508. dnadigest  "[@GholsonLyon](#): [#GSPfuture](#). huge disparity between rest of online world & current state of genomics data sharing." <http://t.co/ot8A7POMvD>
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509. ayo_toye  RT [@genomeresearch](#): MT [@ewanbirney](#): A huge underlying theme in the NHGRI [#GSPfuture](#) meeting is the implicit and explicit need for bioinfor...
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510. nathan_bowen  RT [@ewanbirney](#): A huge underlying theme in the NHGRI [#GSPfuture](#) meeting is the implicit (common) and explicit (rarer) need for bioinformati...
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511. nathan_bowen  RT [@genome_gov](#): Evan Eichler: The word evolution hasn't been uttered yet. We've somewhat lost our way. Translation at expense of basic biol...
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512. grdo_ireland  RT [@DNADigest](#): "[@GholsonLyon](#): [#GSPfuture](#). huge disparity between rest of online world & current state of genomics data sharing." <http://t.c...>
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513. granitehead  Bullet Point: D Altshuler "get the (genomic) data flowing" [#GA4GH](#) [#GSPfuture](#)
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514. dnadigest  RT [@granitehead](#): Bullet Point: D Altshuler "get the (genomic) data flowing" [#GA4GH](#) [#GSPfuture](#)
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515. dnatimes  RT [@DNADigest](#): What is the standard today for accessing and sharing human genomics data? Have your say: <http://t.co/nqym1mqygp> [#GSPFuture](#)
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516. nazeefatima  RT [@KMeltzSteinberg](#): Andy Clark: Evolution is the single most powerful unifying principle in biology including genetics. [#GSPfuture](#)
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517. healthhashtags  Today's Healthcare Conferences: [#changechampionsABC](#) [#AOE14](#) [#GSPfuture](#) [#WCSP14](#) [#AmbSummit](#) <http://t.co/mSOpacqXAq> [#hcsn](#)
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518. granitehead  Does SBIR model fit with the ability of NHGRI to fund innovative data collection, aggregation and sharing? [#GSPfuture](#)
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519. dnadigest  RT [@granitehead](#): Does SBIR model fit with the ability of NHGRI to fund innovative data collection, aggregation and sharing? [#GSPfuture](#)
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520. laurastephen  RT [@DNADigest](#): What is the standard today for accessing and sharing human genomics data? Have your say: <http://t.co/nqym1mqygp> [#GSPFuture](#)
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521. genomeresearch  [#GSPFuture](#) discussion of functional genomics future: data QC & release, clinical integration, tech develop., and only "light management"
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522. jmarcelocastel1  RT [@genomeresearch](#): [#GSPFuture](#) discussion of functional genomics future: data QC & release, clinical integration, tech develop., and only "...
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523. hail_cser  RT [@SheriSchully](#): G. Jarvik: If we don't have utility data we have fundamentally failed at our ultimate goal of improving health [#GSPfutur...](#)
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524. glyn_dk  RT [@obahcall](#): Nickerson: Enough (years of) talking about this- time to act! Need to test models for data sharing & integration [#GSPFuture](#)
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525. glyn_dk  RT [@ewanbirney](#): A huge underlying theme in the NHGRI [#GSPfuture](#) meeting is the implicit (common) and explicit (rarer) need for bioinformati...
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526. glyn_dk  RT [@DNADigest](#): What is the standard today for accessing and sharing human genomics data? Have your say: <http://t.co/nqym1mqygp> [#GSPFuture](#)
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527. glyn_dk  RT [@girlscientist](#): Altshuler: NHGRI funds research, not implementation. [@splon](#): we need \$ for impl. research or genomic med won't happen. +...
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528. glyn_dk  RT [@obahcall](#): [.@markgerstein](#) we need combination of top down & bottom up approaches for functional genomics in developing foundational reso...
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529. glyn_dk  RT [@DNADigest](#): "[@GholsonLyon](#): [#GSPfuture](#). huge disparity between rest of online world & current state of genomics data sharing." <http://t.c...>
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530. geneticsed  RT [@DrKhouryCDC](#): Genomic Medicine: Revolution or Evolution? [@PHGFoundation](#) <http://t.co/6eHVITO4U1> [#GSPfuture](#) [#Genomics](#) [#translation](#) takes ...
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531. dnadigest  RT [@girlscientist](#): Altshuler: NHGRI funds research, not implementation. [@splon](#): we need \$ for impl. research or genomic med won't happen. +...
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532. future_medx  RT [@DrKhouryCDC](#): Genomic Medicine: Revolution or Evolution? [@PHGFoundation](#) <http://t.co/6eHVITO4U1> [#GSPfuture](#) [#Genomics](#) [#translation](#) takes ...
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533. pacbio  de novo! RT [@nextgenseek](#): Eichler: Currently, with [@PacBio](#) tech its costs about \$60K to assemble a human genome [#GSPfuture](#)
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534. mt_ur_mind  RT [@PacBio](#): de novo! RT [@nextgenseek](#): Eichler: Currently, with [@PacBio](#) tech its costs about \$60K to assemble a human genome [#GSPfuture](#)
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535. obahcall  RT [@ewanbirney](#): A huge underlying theme in the NHGRI [#GSPfuture](#) meeting is the implicit (common) and explicit (rarer) need for bioinformati...
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536. obahcall  RT [@PaulFlicek](#): Critically important. RT: [@nextgenseek](#) Eichler: wants sequencing technology that sequence and assemble" a genome for \$10K ...
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537. wspoonr  RT [@DrKhouryCDC](#): Genomic Medicine: Revolution or Evolution? [@PHGFoundation](#) <http://t.co/6eHVITQ4U1> [#GSPfuture](#) [#Genomics](#) [#translation](#) takes ...
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538. bozenberger  Evans: In clinic, cancer sequencing will dwarf germline assays. [#GSPfuture](#)
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539. cshperspectives  Evans: oncology will dwarf germline analysis [in DNA sequencing] [#GSPfuture](#)
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540. mishaangrist  RT [@dgmacarthur](#): Debbie Nickerson: we need to think about how to really engage patients, families and the rare disease community in researc...
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541. genome_gov  Heidi Rehm: The need for NHGRI to participate in dev. of guidelines by clinical communities. [#GSPfuture](#)
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542. genome_gov  Robert Green: Re. CSER, we can't hold back genomic sequencing. How can we educate MDs as genomics is diffused? [#GSPfuture](#)
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543. granitehead  Observation: NHGRI has the opportunity to bring professional societies/silos & standards together around genomics via [@HeidiRehm](#) [#GSPfuture](#)
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544. bskptclmike  [#GSPfuture](#) Need more discussion about education and NHGRI's role in easing clinical translation?
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545. genome_gov  Jim Evans: Hard decisions could be eased by NHGRI slanting towards investigator initiated research. [#GSPfuture](#)
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546. dnadigest  RT [@DrKhouryCDC](#): [#GSPfuture](#) Boerwinkle: Need to create database/knowledgebase infrastructure RT [@obahcall](#) AKA Knowledge Integration [http://...](#)
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547. genome_gov  [@eric_landerGen](#). community could take on challenge probs: here are 10 genomes, go interpret them. We can set high standards. QC [#GSPfuture](#)
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548. gholsonlyon  . [@genome_gov](#) That was also done with Clarity Challenge: [#GSPfuture](#) It was not pretty :)
[http://t.co/pCKa5ycUIx](#)
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549. granitehead  Critical Assessment of Genome Interpretation (CAGI) Manager certification re quality of genome analysis [#gspfuture](#) [https://t.co/PYGVBpvE2c](#)
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550. genome_gov  Adam Felsenfeld: Now for the meeting wrap up. [#GSPfuture](#)
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551. wgrus  RT [@ewanbirney](#): A huge underlying theme in the NHGRI [#GSPfuture](#) meeting is the implicit (common) and explicit (rarer) need for bioinformati...
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552. nextgenseek  RT [@PacBio](#): de novo! RT [@nextgenseek](#): Eichler: Currently, with [@PacBio](#) tech its costs about \$60K to assemble a human genome [#GSPfuture](#)
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553. granitehead  Themes: longitudinal tracking of phenotypes and disease w genetic data by [@genomes2people](#) [#GSPfuture](#)
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554. genome_gov  [@ewanbirney](#) Making sure NHGRI is attracting/exploiting excellent people in bioinformatics. Need to invest in this area. [#GSPfuture](#)
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555. bioinformers  RT [@genome_gov](#): [@ewanbirney](#) Making sure NHGRI is attracting/exploiting excellent people in bioinformatics. Need to invest in this area. [#GS...](#)
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556. openhelix  RT [@genome_gov](#): [@ewanbirney](#) Making sure NHGRI is attracting/exploiting excellent people in bioinformatics. Need to invest in this area. [#GS...](#)
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557. dnadigest  RT [@girlscientist](#): Evan Eichler shocks no one by suggesting NHGRI fund sequencing of the ENTIRE human genome, telomere to telomere. [#GSPfut...](#)
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558. jamieevoss  RT [@girlscientist](#): Eichler: our reporting group feels sequencing archaic genomes will happen whether NHGRI invests or not, so not a focus f...
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559. jamieevoss  RT [@nextgenseek](#): Eichler: In ten/x years, we wont be aligning to a genome, but will be assembling single genomes. [#GSPfuture](#)
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560. dnatimes  [#GSPfuture](#) wonderful to see the audience speak during live feed, kudos to whoever is doing the live feed
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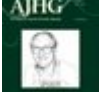



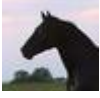
561. craigsmail  [@ewanbirney](#): there should be 5+ bioinformatics engineers on teams, rather than more common 1 or 2 [#GSPfuture](#)
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562. mgollery  RT [@genome_gov](#): [@ewanbirney](#) Making sure NHGRI is attracting/exploiting excellent people in bioinformatics. Need to invest in this area. [#GS...](#)
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563. moraycampbell  RT [@genome_gov](#): [@ewanbirney](#) Making sure NHGRI is attracting/exploiting excellent people in bioinformatics. Need to invest in this area. [#GS...](#)
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564. dnatimes  [#GSPfuture](#) nice to see DNS vision rather than Facebook model - genetic data allows the web to evolve we haven't yet realized
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565. granitehead  themes: metadata (ontogony) tags & APIs for data to flow [@eric_lander](#) & [@GA4GH](#) need for tech and standards advice to drive data [#GSPfuture](#)
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566. gholsonlyon  Jay Shendure and Evan Eichler making nice points re: seq "gold genomes" w PacBio or other long reads: [#GSPfuture](#)
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567. gholsonlyon  Agree, as we have harped repeatedly on the HUGE false negatives w exomes and many "hole" genomes: [#GSPfuture](#) <http://t.co/cnSe0vSsWp>
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568. pacbio  RT [@GholsonLyon](#): Jay Shendure and Evan Eichler making nice points re: seq "gold genomes" w PacBio or other long reads: [#GSPfuture](#)
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569. pacbio  RT [@girlscientist](#): Evan Eichler shocks no one by suggesting NHGRI fund sequencing of the ENTIRE human genome, telomere to telomere. [#GSPfut...](#)
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570. daleyuzuki  RT [@PaulFlicek](#): Eichler: Genome Reference Consortium work is not housekeeping. It is foundation for genomic medicine. [#GSPfuture](#)
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571. granex  RT [@ewanbirney](#): A huge underlying theme in the NHGRI [#GSPfuture](#) meeting is the implicit (common) and explicit (rarer) need for bioinformati...
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572. gholsonlyon  Deb Nickerson: "I see a lot of grey hair here. We need more young ppl at the table". [#GSPfuture](#) Yep.
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573. jxchong  Debbie Nickerson advocating for better education and training to bring in younger PIs [#GSPfuture](#)
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574. karls_es  RT [@GholsonLyon](#): Deb Nickerson: "I see a lot of grey hair here. We need more young ppl at the table". [#GSPfuture](#) Yep.
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575. bskptclmike  [#GSPfuture](#) Kudos to Deb Nickerson for raising the need for more training/education. Still need to figure out where they go after training.
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631. drkhourycdc  MT [@girlscientist](#) [#GSPfuture](#) [@splon](#) [@heidirehm](#) suggest randomized clinical trials of genome sequencing multp settings <http://t.co/JCiXkL6oyf>
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