

- Technology

- Research

- Pricing

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- Company

# #NephJC Transcript

Healthcare social media transcript of the #NephJC hashtag.

Wed, June 6th 2018, 2:00PM – Wed, June 6th 2018, 5:00PM (America/Toronto).

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**Tess Harris** @Elektra

5 days ago

RT @UKCiliaNetwork: LESS THAN 2 HOURS until the #NephJC chat about organoid modelling of #ciliopathy - read the paper summary, and author c...



**Benjamin Stewart** @drbstewart

5 days ago

not long until #NephJC <https://t.co/oLt2ZIUPSc> Can we model kidney diseases with organoids?



**Vinant bhargava** @VinBhargava

5 days ago

RT @drbstewart: not long until #NephJC <https://t.co/oLt2ZIUPSc> Can we model kidney diseases with organoids?



**ALETO** @XALEXT

5 days ago

RT @Nephro\_Sparks: @hswapnil This is an important point because it shows that the mutation in the patient does lead to altered mRNA and pro...



**Swapnil Hiremath, MD** @hswapnil

- Technology 5 days ago
- Research

RT @NephJC: T-2 hours to NephJC! Check out the excellent summary for some last minute reading. #NephJC @toates\_19 @paulphel @\_Dr\_MK @Ston...



**Nephrology Jrnl Club** @NephJC

- Pricing 5 days ago

Less than 30 minutes to go! #NephJC



**Nephrology Jrnl Club** @NephJC

- Healthcare Hashtags 5 days ago

RT @UKCiliaNetwork: LESS THAN 2 HOURS until the #NephJC chat about organoid modelling of #ciliopathy - read the paper summary, and author c...



**Jaime Calle** @jaicaram

5 days ago

RT @Nephro\_Sparks: @DiMiRenalMD @BAMPharmD <https://t.co/4117NPMrhs> #tubulartalk #NephJC



**Sinead Stoneman** @Stones\_\_

5 days ago

RT @NephJC: T-2 hours to NephJC! Check out the excellent summary for some last minute reading. #NephJC @toates\_19 @paulphel @\_Dr\_MK @Ston...



**Sinead Stoneman** @Stones\_\_

5 days ago

RT @UKCiliaNetwork: LESS THAN 2 HOURS until the #NephJC chat about organoid modelling of #ciliopathy - read the paper summary, and author c...



**Sinead Stoneman** @Stones\_\_

5 days ago

RT @NephJC: ⚡ "#NephJC June 5: Growing Organoids in the Dish" <https://t.co/1z63WS4yQ1>



**Sinead Stoneman** @Stones\_\_

5 days ago

RT @\_Dr\_MK: Getting pretty damn excited about tonight's #NephJC!! Who's joining the FUN at 8pm? @dannymcg @DrGavinDreyer @Ashidotic @laurar...



**Paul Phelan** @paulphel

5 days ago

RT @NephJC: T-2 hours to NephJC! Check out the excellent summary for some last minute reading. #NephJC @toates\_19 @paulphel @\_Dr\_MK @Ston...

**Cathy Quinlan @KidneyCathy**

Good morning from Melbourne! Paed neph and clinician researcher in Melbourne. COI mid authorship. #NephJC

- Technology 5 days ago
- Research

**Nephrology Jrnl Club @NephJC**

Good evening everyone! It's 08:00PM GMT, which means it's time for #NephJC.

Welcome one and all to tonight's discussion about the fascinating topic of kidney organoids.

- Pricing 5 days ago
- Healthcare Hashtags

**Nephrology Jrnl Club @NephJC**

Please introduce yourself and declare any Conflicts of Interest. Don't forget to use the hashtag #NephJC.

- Company 5 days ago

**Nephrology Jrnl Club @NephJC**

@KidneyCathy Hi Cathy, welcome! #NephJC

5 days ago**Sinead Stoneman @Stones\_\_**

Hey! Sinead Stoneman, Irish doctor, #NSMC intern. Still trying to get my head around this. No COI. #NephJC

5 days ago**Nephrology Jrnl Club @NephJC**

I'm Laura Slattery (@Slatts\_1) and I'll be your host tonight as we delve into this topic. I'm an adult Nephrology trainee working in Dublin, Ireland and a current #NSMC2018 Intern. #NephJC.

5 days ago**Nephrology Jrnl Club @NephJC**

@Stones\_\_ Hi Sinead, great to have you on board. #NephJC

5 days ago**Swapnil Hiremath, MD @hswapnil**

Swapnil Hiremath, #nephjc cofounder from @OttawaHospital No Col. Lurking today <https://t.co/JM0ZTYoOhe>

5 days ago**Maryam Khosravi @\_Dr\_MK**

@NephJC Hello! Nephrologist currently in the lab @ucl (yes right now) ❤️ #cilia and interest in ciliopathy disease modelling and treatment #NephJC <https://t.co/UI0h0riRH4>

5 days ago

**Benjamin Stewart** @drbstewart

- Technology

 5 days ago

Hi! Ben #renal #medicine in #cambridge #NephJC #organoids

- Research

**Nephrology Jrnl Club** @NephJC

5 days ago



The paper for discussion tonight is "Patient-iPSC-derived kidney organoids show functional validation of a ciliopathic renal phenotype and reveal underlying pathogenetic mechanisms" paper from the American Journal of Human Genetics (@AJHGNews). #NephJC

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**John Sayer** @johnasayer

- Company

 5 days ago

#NephJC John Sayer from Newcastle Upon Tyne here, adult nephrologist No conflicts

**Radzi Rodzlan** @radzirodzlan

5 days ago

@Stones\_\_ Hi I'm Radzi. Renal trainee based in Dublin. Me too trying to get my head around this too. No COI. #NephJC

**Tess Harris** @Elektra

5 days ago

Hi. Tess from London for @PKD\_Int and @CiliaAlliance #pkd #cilia #nephjc

**Nephrology Jrnl Club** @NephJC

5 days ago

Here is a commentary and VA by author Tom Forbes (@kidney\_tom) expanding on the basis for the study, an overview of the complexities of stem cell culture and future directions. #NephJC <https://t.co/4r0oLvTbRa>

**Cathy Quinlan** @KidneyCathy

5 days ago

RT @UKCiliaNetwork: LESS THAN 2 HOURS until the #NephJC chat about organoid modelling of #ciliopathy - read the paper summary, and author c...

**Maryam Khosravi** @\_Dr\_MK


5 days ago

@NephJC If you're new to #NephJC or if you're lurking - say hello and TAG EVERY TWEET so we can see it #NephJC


**Elisa Molinari** @ElisaMolinari7

5 days ago


Hi! I'm Elisa, postdoc in renal genetics from Newcastle #nephjc

 **Nephrology Jrnl Club @NephJC** 5 days ago


• Technology  
 “[this technique] allows the study of a patient’s kidney disease using their own kidney cells, without then need to biopsy their kidney” #NephJC <https://t.co/P5XHU3Tt4I>  
 • Research

 **Tess Harris @Elektra** 5 days ago


RT @NephJC: “[this technique] allows the study of a patient’s kidney disease using their own kidney cells, without then need to biopsy thei...  
 • Pricing  
 • Healthcare Hashtags

 **Laura Slattery @Slatts\_1** 5 days ago

@ElisaMolinari7 Welcome to #NephJC Elisa!  
 • Company

 **Nephrology Jrnl Club @NephJC** 5 days ago

Growing miniature kidneys: And now to the science.... #NephJC

 **Maryam Khosravi @\_Dr\_MK** 5 days ago


@KidneyCathy @dannymcg @DrGavinDreyer @Ashidotic @lauraratcliffe7 @RLWczyk @viyaasanm @Sai\_Durai @ClaraDay13 @Bristlbear @salama\_alan @rhysdrevans @NickRhysMT @kidneydoc101 @CiliaAlliance yes of course! It's not mine but and I don't know who to credit for it - but I can tell you that I saw someone with it printed on T-SHIRT at a conference once - and, and, and I was excited - now that is an excellent story. #nephjc

 **Nephrology Jrnl Club @NephJC** 5 days ago


@ElisaMolinari7 Welcome to #NephJC Elisa

 **Sinead Stoneman @Stones\_\_** 5 days ago

Great to have everyone, @hswapnil @johnasayer @drbstewart @\_Dr\_MK @radzirodzlan @KidneyCathy @Elektra #NephJC

 **Ciliopathy Alliance @CiliaAlliance** 5 days ago

RT @NephJC: Growing miniature kidneys: And now to the science.... #NephJC

 **PKD International @PKD\_Int** 5 days ago

RT @NephJC: Growing miniature kidneys: And now to the science.... #NephJC



**PKD Charity UK @PKDCharity**

5 days ago

RT @NephJC: Growing miniature kidneys: And now to the science.... #NephJC

- Technology

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**Nephrology Jrnl Club @NephJC**

5 days ago



Human pluripotent stem cells (hPSCs) are ideally suited for the generation of functional human kidney cells by virtue of their ability for self-renewal and generation of cells of all three embryonic germ layers. Here are the (simplified!!) steps #NephJC

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- Healthcare Hashtags



**Maryam Khosravi @\_Dr\_MK**

5 days ago

@NephJC @ElisaMolinari7 ooh Hello Elisa - you have already been introduced as a cell culture expert by @johnasayer - can you make organoids?? #NephJC

- Company



**Swapnil Hiremath, MD @hswapnil**

5 days ago

@radzirodzlan @Stones\_\_ Welcome to #NephJC Radzi!

**Nephrology Jrnl Club @NephJC**

5 days ago



Generation of Human Induced Pluripotent Stem Cells (iPSCs)—reprogramming of a somatic cell to pluripotency. These self-replicate rapidly and can be readily generated from patients with kidney disease, enabling the development of immunocompatible tissues. #NephJC.



**Sarah Gleeson @sarah\_gleeson\_**

5 days ago

Hi everyone, Sarah Gleeson, Nephrology trainee in Auckland here. No COI. #NephJC  
<https://t.co/FO0uKSmhHs>



**Tess Harris @Elektra**

5 days ago


RT @NephJC: Generation of Human Induced Pluripotent Stem Cells (iPSCs)—reprogramming of a somatic cell to pluripotency. These self-replicat...

**Nephrology Jrnl Club @NephJC**


5 days ago




Generation of organoids—Upon stimulation by growth factor signals, iPSCs can recapitulate nephrogenesis and self-organise into organoids; organised cellular structures containing organ-specific cell types, capable of performing organ specific functions. #NephJC.


 **Nephrology Jrnl Club @NephJC** 5 days ago  
 Regenerating living human tissue from easily accessible patient fibroblasts represents an exciting development for the study of kidney disease #NephJC


- Technology
- Research


 **Nephrology Jrnl Club @NephJC** 5 days ago  
 @sarah\_gleeson\_ Welcome aboard Sarah" #NephJC


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- Healthcare Hashtags


 **Tess Harris @Elektra** 5 days ago  
 RT @NephJC: Regenerating living human tissue from easily accessible patient fibroblasts represents an exciting development for the study of... Company


 **Sinead Stoneman @Stones\_\_** 5 days ago  
 @sarah\_gleeson\_ Hey Sarah! #NephJC

 **Tess Harris @Elektra** 5 days ago  
 RT @NephJC: Generation of organoids—Upon stimulation by growth factor signals, iPSCs can recapitulate nephrogenesis and self-organise into...

 **Sinead Stoneman @Stones\_\_** 5 days ago  
 RT @NephJC: Regenerating living human tissue from easily accessible patient fibroblasts represents an exciting development for the study of...

 **Nephrology Jrnl Club @NephJC** 5 days ago  
 Disease modelling—iPSCs can be tailored using CRISPR/Cas9 based genome editing using an endonuclease and a guide RNA to introduce dsDNA at specific genome locations to induce known or novel mutations into iPSCs. #NephJC

 **Nephrology Jrnl Club @NephJC** 5 days ago  
 Any initial thoughts on the above principles? #NephJC

 **Tess Harris @Elektra** 5 days ago  
 RT @NephJC: Disease modelling—iPSCs can be tailored using CRISPR/Cas9 based genome editing using an endonuclease and a guide RNA to introdu...

**Cathy Quinlan** @KidneyCathy

@sarah\_gleeson\_ Good morning Sarah! You're up early #NephJC

<https://t.co/Vkw92pjdG>

- Technology 5 days ago
- Research

**Tess Harris** @Elektra

@NephJC #Nephjc Huge potential for patient benefit in drug discovery, RRT I hope - some time in the future.

- Pricing 5 days ago
- Healthcare Hashtags

**Sinead Stoneman** @Stones\_\_

RT @Elektra: @NephJC #Nephjc Huge potential for patient benefit in drug discovery, RRT I hope - some time in the future.

- Company 5 days ago

**Benjamin Stewart** @drbstewart

@NephJC Gene correction of probands is a much more elegant approach vs. introducing mutation to WT #NephJC

5 days ago

**Maryam Khosravi** @\_Dr\_MK

@NephJC Excellent tweet summaries - as was that written by @kidney\_tom - but I'm struck by how many conditions have to be just-right and also the different protocols available - Tom is only in his 2nd year - I wonder how long the system actually took to set up in his lab #NephJC

5 days ago

**Nephrology Jrnl Club** @NephJC

@Elektra Agreed, the potential benefits to our understanding of diseases and drug targets are very exciting #NephJC

5 days ago

**Cathy Quinlan** @KidneyCathy

@NephJC Even better, the team have refined the technique to use blood cells. #NephJC

5 days ago

**Tess Harris** @Elektra

@\_Dr\_MK @NephJC @kidney\_tom #Nephjc and at what cost

5 days ago

**Benjamin Stewart** @drbstewart

@NephJC Key to have a slew of specific phenotypes to go after. That or something more unbiased eg transcriptomics/proteomics to fish a hit #NephJC

5 days ago





**Nephrology Jrnl Club** @NephJC

5 days ago

@\_Dr\_MK @kidney\_tom Agreed, one can only imagine how many permutations were gone through to generate the correct conditions #NephJC

- Technology
- Research



**Benjamin Stewart** @drbstewart

5 days ago

@NephJC This is certainly amenable to #scRNAseq approaches given small number of cells - could really help honing in on cell type specific pathogenic mechanisms #NephJC

- Pricing
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**Maryam Khosravi** @\_Dr\_MK

5 days ago

@KidneyCathy @NephJC blood cells instead of fibroblasts? #NephJC

- Company



**Benjamin Stewart** @drbstewart

5 days ago

@\_Dr\_MK @KidneyCathy @NephJC <https://t.co/Pdx2n8igtg> look here you can make a peripheral T cell into a neuron Why not a podocyte, or a proximal tubular cell. Or heaven forbid, a type B intercalated cell. #NephJC



**Matt Graham-Brown** @DrMattGB

5 days ago

Apologies late, no COI. Just lurking. What a cool paper 🤔 #NephJC



**Benjamin Stewart** @drbstewart

5 days ago

@\_Dr\_MK @KidneyCathy @NephJC obviously in this case they are dedifferentiating not transdifferentiating #nephjc



**Sinead Stoneman** @Stones\_\_

5 days ago

@DrMattGB Great to have you #NephJC



**Nephrology Jrnl Club** @NephJC

5 days ago

@johnasayer @Elektra Agreed, the potential to associate gene expression and phenotype to enhance our understanding of disease mechanisms is highlighted by this paper. #NephJC



**Benjamin Stewart** @drbstewart

5 days ago

#NephJC <https://t.co/OTRf0rPHP0>



**Nephrology Jrnl Club @NephJC**  
And now...onto the paper #NephJC.

- Technology 5 days ago

- Research

5 days ago



**Maryam Khosravi @\_Dr\_MK**

@drbstewart @NephJC from your experience with these approaches Ben, how do you think you would separate the effect of stimulation factors required for the organoid production from the disease signal on 'seq' approaches? #nephjc

- Healthcare Hashtags



**Nephrology Jrnl Club @NephJC**  
@DrMattGB Welcome Matt #NephJC

- Company 5 days ago



**Nephrology Jrnl Club @NephJC**  
@drbstewart Or a GWAS approach? #NephJC

5 days ago



**Maryam Khosravi @\_Dr\_MK**

@KidneyCathy @NephJC @kidney\_tom @HookeHaleKidney clearly! and some of the seminal papers on kidney organoids originate from Melbourne... #nephjc

5 days ago



**Benjamin Stewart @drbstewart**

@\_Dr\_MK @NephJC Yes difficult. If these could be modelled as distinct factors, then at least in theory they could be dissociated, but ideally you'd have a transcriptional reference for the effect of stimulation factors #NephJC

5 days ago



**Nephrology Jrnl Club @NephJC**

T1 & T2: The proband was diagnosed with retinitis pigmentosa (age 1), progressed to ESKD (age 6). Gene analysis combined with clinical findings revealed a diagnosis of Mainzer-Saldino Syndrome; an autosomal recessive nephronophthisis-related ciliopathy. #NephJC.


5 days ago




**Nephrology Jrnl Club @NephJC**

Trio (proband and both parents) exome sequencing revealed a compound heterozygous mutation in a single-base pair of IFT140 gene. This gene codes for a protein required to form and maintain ciliary function. #NephJC


5 days ago

 **Nephrology Jrnl Club @NephJC** 5 days ago  
 T1-T2: A one-step protocol was used to generate clonal uncorrected and gene-corrected iPSC lines from the proband's skin fibroblasts. #NephJC  
<https://t.co/bReNCjpbso>


- Technology
- Research


 **Benjamin Stewart @drbstewart** 5 days ago  
 @NephJC This could be useful for working up variants that fall out of GWAS #NephJC


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 **Nephrology Jrnl Club @NephJC** 5 days ago  
 @Elektra @\_Dr\_MK @kidney\_tom Prohibitive certainly until the availability of our techniques are capable of matching our ambition #NephJC


- Company

 **Nephrology Jrnl Club @NephJC** 5 days ago  
 IFT140 transcripts were amplified and sequenced from gene-corrected (GC) and proband (PR) iPSCs. The G643A variant resulted in defective splicing and degradation of transcripts. PR iPSCs had 1/2 of IFT140 mRNA and 1/3 of the IFT140 protein. #NephJC.

 **Nephrology Jrnl Club @NephJC** 5 days ago  
 Multicellular kidney organoids were differentiated from both PR and GC lines; both were morphologically similar with the expected glomerular precursor proteins. #NephJC

 **Maryam Khosravi @\_Dr\_MK** 5 days ago  
 @NephJC I'm so intrigued as to why choose THIS mutation to model? A compound het seems like it just makes life harder for correction... #NephJC

 **Benjamin Stewart @drbstewart** 5 days ago  
 #NephJC <https://t.co/WMSHXWJTO5>

 **Maryam Khosravi @\_Dr\_MK** 5 days ago  
 @drbstewart @NephJC eesh - I think it's nowhere near that highthroughput yet - but look at the paper from @benofreedman lab - maybe getting there with robotics approach.. #NephJC

**Cathy Quinlan @KidneyCathy**

5 days ago

@drbstewart @NephJC That's the plan. First step was to use a known mutation and to then move onto variants of uncertain significance. #nephjc

- Technology
- Research

**Nephrology Jrnl Club @NephJC**

5 days ago

But the majority of PR cilia were shortened and showed a clubbed morphology compared with GC cilia. #NephJC. <https://t.co/cmlsDGWmtu>

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**AJHG @AJHGNews**

5 days ago

RT @NephJC: The paper for discussion tonight is "Patient-iPSC-derived kidney organoids show functional validation of a ciliopathic renal ph..."

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**Swapnil Hiremath, MD @hswapnil**

5 days ago

RT @\_Dr\_MK: @NephJC I'm so intrigued as to why choose THIS mutation to model? A compound het seems like it just makes life harder for corre...

**Tess Harris @Elektra**

5 days ago

#nephjc Such an ultra-rare disease. Can this technique shed light on other ciliopathies? <https://t.co/Aw0Zw5HxK3>

**Tess Harris @Elektra**

5 days ago

RT @\_Dr\_MK: @drbstewart @NephJC eesh - I think it's nowhere near that highthroughput yet - but look at the paper from @benofreedman lab - m...

**john sayer @johnasayer**

5 days ago

@\_Dr\_MK @hswapnil @NephJC yes, did you try other alleles from different patients first which didn't give interesting phenotypes? #NephJC

**Maryam Khosravi @\_Dr\_MK**

5 days ago

@johnasayer @NephJC oh i missed that - I saw the mRNA levels in cells and assumed they were checked in the patient too? #NephJC

**Nephrology Jrnl Club @NephJC**

5 days ago

Given that epithelial dysfunction is the proposed cause of renal ciliopathy, the authors then isolated and examined the epithelial component of organoids through RNA sequencing of epithelial subfractions. #NephJC



**Nephrology Jrnl Club @NephJC**

PR organoids were shown to have disturbances in cell adhesion and cytoskeletal interaction pathways. #NephJC <https://t.co/tl8QXRimCT>

- Technology 5 days ago
- Research



**Nephrology Jrnl Club @NephJC**

Also PR cells did not form appropriately polarised epithelia and had fewer cilia compared to GC cells. #NephJC <https://t.co/cCdPUo1lm0>

- Pricing 5 days ago
- Healthcare Hashtags



**Maryam Khosravi @\_Dr\_MK**

@Elektra Excellent question - and yes definitely - the study adds support to use of organoids in modelling kidney diseases and could be an important model for screening treatments if we can prove it is robust through studies like this one I think. #NephJC

- Company 5 days ago



**Nephrology Jrnl Club @NephJC**

Any comments on the methods or results? Any experience with the techniques outlined? #NephJC

5 days ago



**Maryam Khosravi @\_Dr\_MK**

@johnasayer @hswapnil @NephJC @KidneyCathy may know - or we might have to wait for @kidney\_tom to wake up for the answer! #NephJC

5 days ago



**Nephrology Jrnl Club @NephJC**

@Elektra Agreed re the rarity of the disease. I gather because this is a known mutation that further studies would aim to move to variants of unknown significance. #NephJC

5 days ago



**john sayer @johnasayer**

@NephJC The EPCAM collection of tubular cells was a key step here....did the tubules within the organoids have any phenotypes? Were they ciliated??#NephJC

5 days ago



**Maryam Khosravi @\_Dr\_MK**

@NephJC did @elisamolinari7 tell us if she's tried culturing organoids?? #NephJC

5 days ago



**Elisa Molinari @ElisaMolinari7**

@NephJC I wonder why polarisation of epithelial cells was not checked directly in organoids? #nephjc

5 days ago



**Elisa Molinari** @ElisaMolinari7  
@\_Dr\_MK Not yet! #nephjc

• Technology 5 days ago

• Research



**John Sayer** @johnasayer  
@ElisaMolinari7 @NephJC yes, i would be keen to know this too, glad you are on the same page Elisa #NephJC

5 days ago

• Pricing



**Cathy Quinlan** @KidneyCathy  
@NephJC @Elektra Thanks Laura, chosen as a known gene with the intention to move on to unknowns next. #nephjc

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**Nephrology Jrnl Club** @NephJC 5 days ago

T3: In conclusion, this study demonstrates that with the proband's cell-derived kidney organoid to model the specific IFT140 gene mutation, it is possible to reproduce the disease phenotype in vitro. #NephJC



**Nephrology Jrnl Club** @NephJC 5 days ago

T3: The phenotypic effects of gene interactions and gene corrections can also be studied. #NephJC



**Maryam Khosravi** @\_Dr\_MK 5 days ago  
@ElisaMolinari7 Adrian Woolf in Manchester has followed an Australian protocol too (maybe this) from what I remember in case you are interested in getting set up #NephJC



**John Sayer** @johnasayer 5 days ago  
@NephJC great study ! #NephJC



**Benjamin Stewart** @drbstewart 5 days ago  
@\_Dr\_MK @NephJC @benofreedman eventually eventually #NephJC



**Matt Graham-Brown** @DrMattGB 5 days ago  
RT @johnasayer: @NephJC great study ! #NephJC

**Matt Graham-Brown** @DrMattGB

5 days ago

RT @NephJC: T3: In conclusion, this study demonstrates that with the proband's cell-derived kidney organoid to model the specific IFT140 ge...

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**Cathy Quinlan** @KidneyCathy

5 days ago

@johnasayer @\_Dr\_MK @hswapnil @NephJC No, this was the first (not the last!) #nephjc

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**Nephrology Jrnl Club** @NephJC

5 days ago

Potential drawbacks/limitations to this study? #NephJC

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**John Sayer** @johnasayer

5 days ago

@KidneyCathy @\_Dr\_MK @hswapnil @NephJC the first of many hundreds I hope #NephJC

**Cathy Quinlan** @KidneyCathy

5 days ago

@\_Dr\_MK @NephJC We wanted a patient mutation, so were limited by who had been sequenced at that stage in the project. Our clinical network has now expanded nationally so options are broader. #nephjc

**Maryam Khosravi** @\_Dr\_MK

5 days ago

@KidneyCathy @NephJC that's very exciting - lots of potential then! #NephJC

**John Sayer** @johnasayer

5 days ago

@NephJC the question really is how high-throughput could it be....in an unsolved patient with a inherited kidney disease / ciliopathy there may be many variants that need to be modelled #NephJC

**Cathy Quinlan** @KidneyCathy

5 days ago

@johnasayer @\_Dr\_MK @hswapnil @NephJC Is this a good time to mention that we're hiring... #nephjc <https://t.co/6YZxmHyQ6x>

**Maryam Khosravi** @\_Dr\_MK

5 days ago

@NephJC I guess only questions of cost and scalability - but that comes with natural refinements and shouldn't take away from great achievement of this study in proving the important principles #NephJC

**Maryam Khosravi** @\_Dr\_MK

5 days ago

RT @KidneyCathy: @johnasayer @\_Dr\_MK @hswapnil @NephJC Is this a good time to mention that we're hiring... #nephjc <https://t.co/6YZxmHyQ6x>

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**UK Cilia Network** @UKCiliaNetwork

5 days ago

RT @KidneyCathy: @johnasayer @\_Dr\_MK @hswapnil @NephJC Is this a good time to mention that we're hiring... #nephjc <https://t.co/6YZxmHyQ6x>

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**Maryam Khosravi** @\_Dr\_MK

5 days ago

@KidneyCathy @johnasayer @hswapnil @NephJC me me me! pick me! #NephJC

- Company

**Cathy Quinlan** @KidneyCathy

5 days ago

@\_Dr\_MK @NephJC It's been a lot of fun! If you'd like info on our clinics where we can recruit <https://t.co/OMlxsOrMAP> or <https://t.co/1xs75XNN04> #nephjc

**Maryam Khosravi** @\_Dr\_MK

5 days ago

@NephJC " The simultaneous reprogramming and gene editing performed by Sara Howden in this paper is desirable because it saves time (each process individually takes about 3 months and costs between AUD \$10-15K) " #NephJC

**Nephrology Jrnl Club** @NephJC

5 days ago

Some thoughts: Organoids currently are not equipped to model vascular supply therefore limited utility to study GBM or glomerular diseases. Unknown effect of blood flow/shear stress on ciliary signaling. #NephJC

**Nephrology Jrnl Club** @NephJC

5 days ago

Transcriptional protocol most closely resembles T1 foetal kidney—lack many of the transporters into the mature kidneys #NephJC

**UK Cilia Network** @UKCiliaNetwork

5 days ago

RT @KidneyCathy: @\_Dr\_MK @NephJC It's been a lot of fun! If you'd like info on our clinics where we can recruit <https://t.co/OMlxsOrMAP> or...

**Cathy Quinlan** @KidneyCathy

5 days ago

@johnasayer @NephJC Well we're not at the Model T stage yet - but have the potential to get there. #nephjc <https://t.co/EjFsC3gSq>





**John Sayer** @johnasayer

@NephJC i wonder what phenotype a mixture of rescued and disease cells would give in this system (so a mosaic)...would some functional cilia be enough to achieve polarity #NephJC

- Technology 5 days ago
- Research



**Tess Harris** @Elektra

RT @KidneyCathy: @johnasayer @NephJC Well we're not at the Model T stage yet - but have the potential to get there. #nephjc <https://t.co/Ej..>

- Pricing 5 days ago
- Healthcare Hashtags



**Nephrology Jrnl Club** @NephJC

@\_Dr\_MK Very exciting paper in terms of proof of principle. The wide scale applicability and cost effectiveness will take extensive further studies at a laboratory level and from a feasibility perspective. Reproducibility and throughput are likely to be the key determinants #NephJC

- Company 5 days ago



**Tess Harris** @Elektra

RT @NephJC: @\_Dr\_MK Very exciting paper in terms of proof of principle. The wide scale applicability and cost effectiveness will take exten...

5 days ago



**Nephrology Jrnl Club** @NephJC

@KidneyCathy @johnasayer @\_Dr\_MK @hswapnil An ideal time to mention it Cathy! #NephJC

5 days ago



**Maryam Khosravi** @\_Dr\_MK

@KidneyCathy @johnasayer @NephJC this is the classic "how fast can we model it" question of the new large scale sequencing area - applies to all models i think #NephJC

5 days ago



**Nephrology Jrnl Club** @NephJC

@johnasayer Would be very interesting to explore #NephJC

5 days ago



**Cathy Quinlan** @KidneyCathy

@johnasayer @NephJC interesting question - as a clinician I would think it would give you sufficient normal patterning to have good function in early life #nephjc

5 days ago



**Maryam Khosravi** @\_Dr\_MK

@KidneyCathy @johnasayer @NephJC Really liked this response to the paper from a transplant surgeon @AlanHawxbyMD #NephJC <https://t.co/z7hd1C3t3N>

- Technology 5 days ago
- Research



**Tess Harris** @Elektra

@\_Dr\_MK @KidneyCathy @johnasayer @NephJC @AlanHawxbyMD Better than a dodgy kidney from the waiting list ;) #nephjc

- Pricing 5 days ago
- Healthcare Hashtags



**Nephrology Jrnl Club** @NephJC

Take-home points? #NephJC

- Company 5 days ago



**john sayer** @johnasayer

@NephJC this data really shows the developmental phenotype of this ciliopathy...i am still wondering about the dysplasia side of things also and if this condition is rescuable postnatally...any comments #nephjc

5 days ago



**Swapnil Hiremath, MD** @hswapnil

RT @\_Dr\_MK: @KidneyCathy @johnasayer @NephJC Really liked this response to the paper from a transplant surgeon @AlanHawxbyMD #NephJC <https://t.co/z7hd1C3t3N>

5 days ago



**Benjamin Stewart** @drbstewart

@\_Dr\_MK @KidneyCathy @johnasayer @NephJC @AlanHawxbyMD can we run them in parallel!! haha #NephJC

5 days ago



**Nephrology Jrnl Club** @NephJC

Very elegant study; always fascinating to explore new frontiers of research with a view to understanding disease mechanisms and potential therapeutic targets. The age old caveat of further studies required regarding reproducibility, applicability and feasibility. #NephJC

5 days ago



**Tess Harris** @Elektra

#Nephjc Shameless plug for Cilia 2018 in Copenhagen <https://t.co/kx0CJsoH1r> (Hope you don't mind @nephjc)

5 days ago

**Maryam Khosravi** @\_Dr\_MK

5 days ago

@NephJC -Elegant study -Exciting possibilities -and a job in the sun up for grabs. What more could you want from #NephJC

- Technology
- Research

**John Sayer** @johnasayer

5 days ago

@NephJC Cilia are important in all biology so we best get good at modelling them! #NephJC

- Pricing
- Healthcare Hashtags

**Tess Harris** @Elektra

5 days ago

RT @NephJC: Very elegant study; always fascinating to explore new frontiers of research with a view to understanding disease mechanisms and...

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**Nephrology Jrnl Club** @NephJC

5 days ago

@\_Dr\_MK Exciting time to be both a researcher and a clinician. #NephJC

**Ciliopathy Alliance** @CiliaAlliance

5 days ago

RT @johnasayer: @NephJC Cilia are important in all biology so we best get good at modelling them! #NephJC

**Cathy Quinlan** @KidneyCathy

5 days ago

Thanks #nephJC for a stimulating discussion. Many of the authors and members of our clinical group are on twitter if you're interested in this field. @HookeHaleKidney @kidney\_tom @kidgenaustralia @AliciaOshlack @ChiragVPatel79 @MCRI\_for\_kids @AusGenomics @ZornitzaS @MelbGenomics

**Nephrology Jrnl Club** @NephJC

5 days ago

@Elektra Plug away #heartcilia #NephJC.

**Cathy Quinlan** @KidneyCathy

5 days ago

RT @\_Dr\_MK: @NephJC -Elegant study -Exciting possibilities -and a job in the sun up for grabs. What more could you want from #NephJC

**Maryam Khosravi** @\_Dr\_MK

5 days ago

@johnasayer @NephJC HEAR HEAR #NephJC

**Cathy Quinlan @KidneyCathy**

- Technology

 5 days ago

RT @Elektra: #Nephjc Shameless plug for Cilia 2018 in Copenhagen

<https://t.co/kx0CJsoH1r> (Hope you don't mind @nephjc)

- Research

**Maryam Khosravi @\_Dr\_MK**

- Pricing

 5 days ago

@KidneyCathy @HookeHaleKidney @kidney\_tom @kidgenaustralia @AliciaOshlack

@ChiragVPatel79 @MCRI\_for\_kids @AusGenomics @ZornitzaS @MelbGenomics

Thank you very much @KidneyCathy for fielding our questions and helping our hashtag!

Great work from all! #NephJC

- Company

**Nephrology Jrnl Club @NephJC**

5 days ago

Thanks to everyone for joining us tonight and for contributing to the fascinating discussion. Particularly to @KidneyCathy for the unique research insights. #NephJC

**Tess Harris @Elektra**

5 days ago

Thanks all for another fab #nephjc chat. One day I might understand all this... In the meantime #heartcilia #heartpkd

**Maryam Khosravi @\_Dr\_MK**

5 days ago

@NephJC @KidneyCathy Thank you @Slatts\_1 for hosting! #NephJC

**Cathy Quinlan @KidneyCathy**

5 days ago

@NephJC Take home? Tho this technology is is a long way from clinical applicability it does off patients hope for the future. We run patient engagement events and this is always the strongest feedback. More info <https://t.co/OMlxsOrMAP> if you're interested #nephjc

**Nephrology Jrnl Club @NephJC**

5 days ago

Please also sign up for our weekly newsletter at <https://t.co/5aumn8lmwF>. Thank you and good night until the next time! #NephJC**Sinead Stoneman @Stones\_\_**

5 days ago

@NephJC @KidneyCathy Many thanks for a great #NephJC 🙌 @Slatts\_1 and all



**Tess Harris @Elektra**

RT @KidneyCathy: @NephJC Take home? Tho this technology is is a long way from clinical applicability it does off patients hope for the futu...

- Technology 5 days ago
- Research



**Benjamin Stewart @drbstewart**

Thanks for the #NephJC!!

- Pricing 5 days ago



**Cathy Quinlan @KidneyCathy**

Such a great #nephjc on a complicated topic - huge thanks to @Slatts\_1 for hosting, @divyaa24 for her wonderful summary and @kidney\_tom for his author response.

- Healthcare Hashtags 5 days ago



**Nephrology Jrnl Club @NephJC**

@johnasayer "Slightly more than one step" #NephJC

5 days ago



**Matt Graham-Brown @DrMattGB**

RT @\_Dr\_MK: @NephJC -Elegant study -Exciting possibilities -and a job in the sun up for grabs. What more could you want from #NephJC

5 days ago



**Tom Forbes @kidney\_tom**

Good morning #nephjc! Apologies for my absence. Has been a busy night on call.

5 days ago



**Shalabh Srivastava @Shalabh\_Sriv**

Sorry just joining in - Shalabh Srivastava, Nephrologist and Researcher @SayerLab #NephJC

5 days ago



**Shalabh Srivastava @Shalabh\_Sriv**

@\_Dr\_MK @NephJC @ElisaMolinari7 @johnasayer Yes we can at @SayerLab #NephJC

5 days ago



**Cathy Quinlan @KidneyCathy**

RT @Elektra: #Nephjc Shameless plug for Cilia 2018 in Copenhagen <https://t.co/kx0CJsoH1r> (Hope you don't mind @nephjc)

5 days ago



**Shalabh Srivastava** @Shalabh\_Sriv

5 days ago

RT @\_Dr\_MK: @NephJC -Elegant study -Exciting possibilities -and a job in the sun up for grabs. What more could you want from #NephJC

- Technology
- Research



**Tom Forbes** @kidney\_tom

5 days ago

RT @KidneyCathy: @johnasayer @\_Dr\_MK @hswapnil @NephJC Is this a good time to mention that we're hiring... #nephjc <https://t.co/6YZxmHyQ6x>

- Pricing
- Healthcare Hashtags



**Tom Forbes** @kidney\_tom

5 days ago

@\_Dr\_MK @NephJC Actually the comp het makes it easier to correct as you can design you guide to correct one allele without cutting the other. Without this we would not have been able to demonstrate the failed survival of the RNA transcript from the uncorrected allele. #nephJC

- Company



**Tom Forbes** @kidney\_tom

5 days ago

@johnasayer @\_Dr\_MK @hswapnil @NephJC No this was the first @johnasayer. We were lucky with the cilia morphology. Though we have had an unsuccessful go at a novel variant with a different phenotype. #nephJC



**Tom Forbes** @kidney\_tom

5 days ago

I'm going to have to come back to you later #nephjc. The kids are up and I've got to get to the ward round on time!!!



**Cathy Quinlan** @KidneyCathy

5 days ago

@Shalabh\_Sriv @\_Dr\_MK @NephJC @ElisaMolinari7 @johnasayer @SayerLab  
Imma just leave this here <https://t.co/6YZxmHheHX> #nephjc



**KidGen** @kidgenaustralia

5 days ago

RT @Elektra: #Nephjc Shameless plug for Cilia 2018 in Copenhagen  
<https://t.co/kx0CJsoH1r> (Hope you don't mind @nephjc)



**Tom Forbes** @kidney\_tom

5 days ago

@NephJC @Elektra That's the plan! #nephJC



**Tom Forbes @kidney\_tom**


5 days ago

@Elektra I'm hopeful that as we accumulate datasets from various NPHP genotypes, the important dysfunctional pathways will become clearer. #nephjc

- Technology
- Research

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