

#### Instructions

The purpose of this form is to provide readers of your manuscript with information about your other interests that could influence how they receive and understand your work. The form is designed to be completed electronically and stored electronically. It contains programming that allows appropriate data display. Each author should submit a separate form and is responsible for the accuracy and completeness of the submitted information. The form is in six parts.

### 1. Identifying information.

## 2. The work under consideration for publication.

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### 4. Intellectual Property.

This section asks about patents and copyrights, whether pending, issued, licensed and/or receiving royalties.

## 5. Relationships not covered above.

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patent

#### **Definitions.**

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Section 1. Identifying Inform	ation					
1. Given Name (First Name) Aliya	2. Surname (Last Name) Gulamhusein	3. Date 04-November-2019				
4. Are you the corresponding author?	Yes 🖌 No	Corresponding Author's Name Michael Trauner				
5. Manuscript Title Methylation signatures in peripheral blood are associated with marked age acceleration and disease progression in patients with primary sclerosing cholangitis						
6. Manuscript Identifying Number (if you kn JHEPR-D-19-00152	ow it)					
Section 2. The Work Under Co	onsideration for Public	cation				
		a third party (government, commercial, private foundation, etc.) for ta monitoring board, study design, manuscript preparation,				
Are there any relevant conflicts of intere	st? Yes 🖌 No					
Section 3. Relevant financial a	activities outside the s	ubmitted work.				
of compensation) with entities as descri	bed in the instructions. Us port relationships that we	ether you have financial relationships (regardless of amount se one line for each entity; add as many lines as you need by e <b>present during the 36 months prior to publication</b> .				

If yes, please fill out the appropriate information below.

Name of Entity	Grant?	Personal Fees	Non-Financial Support?	Other?	Comments	
AbbVie		$\checkmark$				
Intercept		$\checkmark$				

~			
Se	CTI	n	4

#### Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work?

🖌 No



## Section 5. Relationships not covered above

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Dr. Gulamhusein reports personal fees from AbbVie, personal fees from Intercept, outside the submitted work; .

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Section 1. Identifying Inform	nation					
1. Given Name (First Name) Andrew	2. Surname (Last Name) Muir		3. Date 04-November-2019			
4. Are you the corresponding author?	Yes 🖌 No	Corresponding Author's Nar Michael Trauner	ne			
5. Manuscript Title Methylation signatures in peripheral blood are associated with marked age acceleration and disease progression in patients with primary sclerosing cholangitis						
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Section 2						

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Are there any relevant conflicts of interest?  Yes
--

If yes, please fill out the appropriate information below.

Name of Entity	Grant?	Personal Fees	Non-Financial Support <mark>?</mark>	Other?	Comments	
Gilead	$\checkmark$	$\checkmark$				
Intercept	$\checkmark$					
NGM	$\checkmark$					

Section 4.

Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work?

2

🖌 No



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Dr. Muir reports grants and personal fees from Gilead, grants from Intercept, grants from NGM, outside the submitted work; .

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Section 1.	Identifying Inform	mation		
1. Given Name (Fir Christopher	rst Name)	2. Surname (Last Name) Bowlus	3. Date 04-November-2019	
4. Are you the corr	re you the corresponding author? Yes Vo Corresponding Author's Name Michael Trauner			
, ,		lood are associated with 1	marked age acceleration and disease progression in patients	
6. Manuscript Ider JHEPR-D-19-001	ntifying Number (if you k 52	xnow it)		
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Are there any relevant conflicts of interest?	Yes	$\checkmark$

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Are there any relevant conflicts of interest?		No
Are there any relevant connicts of interest:	v res	

If yes, please fill out the appropriate information below.

Name of Entity	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments	
BiomX	$\checkmark$	$\checkmark$				
Intercept		$\checkmark$				
GlaxoSmithKline	$\checkmark$	$\checkmark$				
Gilead	$\checkmark$					
Intercept	$\checkmark$					
CymbaBay	$\checkmark$					
Takeda	$\checkmark$					
Bristol-Myers Squibb	$\checkmark$					



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Tobira	$\checkmark$					
Merck	$\checkmark$					
TaiwanJ	$\checkmark$					
Eli Lilly	$\checkmark$					
Novartis	$\checkmark$					
Target	$\checkmark$					

#### Section 4.

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Name of Entity	Grant? Personal I Fees?	Non-Financial Support? Other? Comments
Gilead		Employee and stock holder
Section 4.	ual Duoportus – Datonto & Com	

Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes 🖌 No

**Intellectual Property -- Patents & Copyrights** 



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Dr. Chung reports other from Gilead, outside the submitted work; .

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Cynthia	irst Name)	2. Surname (Last Name) Levy	3. Date 19-November-2019	
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PSC				

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Are there any relevant conflicts of interest?	Yes	$\checkmark$

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Are there any relevant conflicts of interest?	🖌 Yes	No
		1.10

If yes, please fill out the appropriate information below.

Name of Entity	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments	
Gilead	$\checkmark$					
Intercept	$\checkmark$					
CymaBay	$\checkmark$	$\checkmark$			research grant and consulting fees	
Genfit	$\checkmark$					
Novartis	$\checkmark$					
GSK	$\checkmark$	$\checkmark$				
Cara Therapeutics	$\checkmark$	$\checkmark$				
Target PharmaSolutions	$\checkmark$	$\checkmark$				



Name of Entity	Grant?	Personal Fees	Non-Financial Support?	Other?	Comments	
Enanta	$\checkmark$					
HighTide	$\checkmark$					
Durect	$\checkmark$					
Genkyotex	$\checkmark$					
Flashlight		$\checkmark$			Consulting	
Pliant		$\checkmark$			Consulting	
Shire		$\checkmark$			Consulting	
Liver Transplantation				$\checkmark$	Editorial Board	

## Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes 🖌 No

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### 4. Intellectual Property.

This section asks about patents and copyrights, whether pending, issued, licensed and/or receiving royalties.

## 5. Relationships not covered above.

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patent

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Section 1. Identifying Inform	ation					
1. Given Name (First Name) G. Mani	2. Surname (Last Name) Subramanian	3. Date 04-November-2019				
4. Are you the corresponding author?	Yes 🖌 No	Corresponding Author's Name Michael Trauner				
5. Manuscript Title Methylation signatures in peripheral blood are associated with marked age acceleration and disease progression in patients with primary sclerosing cholangitis						
6. Manuscript Identifying Number (if you kn JHEPR-D-19-00152	ow it)	-				
Section 2. The West Hader C						
Did you or your institution <b>at any time</b> recei any aspect of the submitted work (including statistical analysis, etc.)? Are there any relevant conflicts of intere	but not limited to grants, da	a third party (government, commercial, private foundation, etc.) for ta monitoring board, study design, manuscript preparation,				
Section 3. Relevant financial	activities outside the s	ubmitted work.				
of compensation) with entities as descri	bed in the instructions. Us port relationships that wer	ether you have financial relationships (regardless of amount e one line for each entity; add as many lines as you need by e <b>present during the 36 months prior to publication</b> .				
If yes, please fill out the appropriate info	prmation below.					
Name of Entity	Grant•	-Financial Other? Comments				
		Employee and stock holder				
Section 4. Just all actual Draw or	tu. Datanta 9 Canuia					

Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes V No



## Section 5. Relationships not covered above

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Dr. Subramanian reports other from Gilead, outside the submitted work; .

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Section 1.	Identifying Infor	mation			
1. Given Name (Fin Kris	rst Name)	2. Surname (Last Name) Kowdley		3. Date 04-November-2019	
4. Are you the corresponding author?		Yes 🖌 No	Corresponding Author's Name Michael Trauner		
, ,		lood are associated with r	narked age acceleration and	l disease progression in patients	
6. Manuscript Ider JHEPR-D-19-001	ntifying Number (if you l 52	know it)			
Section 2.	The Work Under (	Consideration for Publ	ication		
	ubmitted work (includir		n a third party (government, co lata monitoring board, study de	mmercial, private foundation, etc.) for esign, manuscript preparation,	

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Yes

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✓ No

Are there any	relevant conf	licts of inte	rest? 🟒	Yes	No
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If yes, please fill out the appropriate information below.

Are there any relevant conflicts of interest?

Name of Entity	Grant?	Personal Fees?	Non-Financial Support <mark>?</mark>	Other?	Comments	
Gilead	$\checkmark$	$\checkmark$				
Hightide	$\checkmark$					
Intercept	$\checkmark$	$\checkmark$				
Up-To-Date		$\checkmark$				



## Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes 🖌 No

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Dr. Kowdley reports grants and personal fees from Gilead, grants from Hightide, grants and personal fees from Intercept, personal fees from Up-To-Date, outside the submitted work; .

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Manns



Section 1.			
Section 1.	Identifying Inform	ation	
1. Given Name (Fin Michael	rst Name)	2. Surname (Last Name) Manns	3. Date 04-November-2019
4. Are you the corresponding author?		Yes 🖌 No	Corresponding Author's Name
			Michael Trauner
, ,		ood are associated with	marked age acceleration and disease progression in patients
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Section 2.	The Work Under Co	onsideration for Pub	lication
Did vou or vour ins	titution <b>at any time</b> recei	ve payment or services fro	om a third party (government, commercial, private foundation, etc.) for

Did you or your institution **at any time** receive payment or services from a third party (government, commercial, private foundation, etc.) for any aspect of the submitted work (including but not limited to grants, data monitoring board, study design, manuscript preparation, statistical analysis, etc.)? Are there any relevant conflicts of interest? Yes V No

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Are there any relevant conflicts of interest?	1 Yes	No
Are there any relevant connicts of interest:	162	

If yes, please fill out the appropriate information below.

Name of Entity	Grant?	Personal Fees?	Non-Financial Support <mark>?</mark>	Other?	Comments	
Gilead	$\checkmark$	$\checkmark$	$\checkmark$			
Intercept	$\checkmark$	$\checkmark$	$\checkmark$			
Falk	$\checkmark$	$\checkmark$	$\checkmark$			
Novartis	$\checkmark$	$\checkmark$	$\checkmark$			



## Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes 🖌 No

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Dr. Manns reports grants, personal fees and non-financial support from Gilead, grants, personal fees and non-financial support from Intercept, grants, personal fees and non-financial support from Falk, grants, personal fees and non-financial support from Novartis, outside the submitted work; .

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1. Given Name (Fi Michael	rst Name)	2. Surname (Last Name) Trauner	3. Date 04-November-2019
4. Are you the cor	responding author?	✓ Yes No	
, ,		blood are associated with marked age a	cceleration and disease progression in patients
6. Manuscript Ide JHEPR-D-19-001	ntifying Number (if you 52	know it)	

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Are	there any	relevant	conflicts	of ir	nterest?	Yes	V	

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Are there any relevant conflicts of interest?	🖌 Yes	No
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If yes, please fill out the appropriate information below.

Name of Entity	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments	
Albireo	$\checkmark$	$\checkmark$				
BiomX		$\checkmark$				
Falk	$\checkmark$	$\checkmark$	$\checkmark$			
Genfit		$\checkmark$				
Gilead	$\checkmark$	$\checkmark$	$\checkmark$			
Intercept	$\checkmark$	$\checkmark$				
MSD	$\checkmark$	$\checkmark$				
Novartis		$\checkmark$				



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Phenex		$\checkmark$				
Regulus		$\checkmark$				
Roche		$\checkmark$	$\checkmark$			
AbbVie			$\checkmark$			
Cymbabay	$\checkmark$					

# Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work? 🗸 Yes

🖌 Yes 🗌 No

If yes, please fill out the appropriate information below. If you have more than one entity press the "ADD" button to add a row. Excess rows can be removed by pressing the "X" button.

Patent?	Pending?	Issued?	Licensed?	Royalties?	Licensee?	Comments	
Medical use of nor-UDCA			$\checkmark$		Medical University of Graz		

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Dr. Trauner reports grants and personal fees from Albireo, personal fees from BiomX, grants, personal fees and non-financial support from Falk, personal fees from Genfit, grants, personal fees and non-financial support from Gilead, grants and personal fees from Intercept, grants and personal fees from MSD, personal fees from Novartis, personal fees from Phenex, personal fees from Regulus, personal fees and non-financial support from Roche, non-financial support from AbbVie, grants from Cymbabay, outside the submitted work; In addition, Dr. Trauner has a patent Medical use of nor-UDCA licensed to Medical University of Graz.

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Section 1. Identifying Inform	nation		
1. Given Name (First Name) Robert	2. Surname (Last Name) Myers		3. Date 04-November-2019
4. Are you the corresponding author?	Yes 🖌 No	Corresponding Author's N Michael Trauner	Name
5. Manuscript Title Methylation signatures in peripheral b with primary sclerosing cholangitis	lood are associated with n	narked age acceleration an	nd disease progression in patients
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Name of Entity	Grant•	Support? Other Co	omments
Gilead		Emp	ployee and stock holder

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Section 4.



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### 4. Intellectual Property.

This section asks about patents and copyrights, whether pending, issued, licensed and/or receiving royalties.

## 5. Relationships not covered above.

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patent

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Section 1.	Identifying Inform	ation					
1. Given Name (Fin Yevgeniy	rst Name)	2. Surname (Last Nan Gindin	ne)	3. Date 04-November-2019			
4. Are you the corr	responding author?	g Author's Name Iner					
5. Manuscript Title Methylation signatures in peripheral blood are associated with marked age acceleration and disease progression in patients with primary sclerosing cholangitis							
6. Manuscript Ider JHEPR-D-19-001	ntifying Number (if you kn 52	now it)					
Section 2.	The Work Under Co	onsideration for P	ublication				
	ubmitted work (including		1 7 3	overnment, commercial, private foundation, etc.) oard, study design, manuscript preparation,	for		
Are there any rel	evant conflicts of intere	est? Yes 🖌	No				
Section 3.	Relevant financial	activities outside t	he submitted wo	ork.			
of compensation	) with entities as descri	bed in the instructior	ns. Use one line for e	e financial relationships (regardless of amou each entity; add as many lines as you need b <b>ing the 36 months prior to publication</b> .			
	evant conflicts of intere		No				
If yes, please fill c	out the appropriate info	ormation below.					
Name of Entity		Grant? Personal Fees?	Non-Financial Support?	other? Comments			
Silead				Employee and stock holder			

Intellectual Property -- Patents & Copyrights Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes 🖌 No

Section 4.



## Section 5. Relationships not covered above

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Dr. Gindin reports other from Gilead, outside the submitted work; .

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#### Instructions

The purpose of this form is to provide readers of your manuscript with information about your other interests that could influence how they receive and understand your work. The form is designed to be completed electronically and stored electronically. It contains programming that allows appropriate data display. Each author should submit a separate form and is responsible for the accuracy and completeness of the submitted information. The form is in six parts.

### 1. Identifying information.

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Section 1. Identifying Inform	ation	
1. Given Name (First Name) Zhaoshi	2. Surname (Last Name) Jiang	3. Date 04-November-2019
4. Are you the corresponding author?	Yes 🖌 No	Corresponding Author's Name Michael Trauner
5. Manuscript Title Methylation signatures in peripheral blo with primary sclerosing cholangitis	ood are associated with m	arked age acceleration and disease progression in patients
6. Manuscript Identifying Number (if you kr JHEPR-D-19-00152	now it)	_
Section 2. The Work Under Co	onsideration for Public	cation
any aspect of the submitted work (including statistical analysis, etc.)? Are there any relevant conflicts of intere	a but not limited to grants, da	a third party (government, commercial, private foundation, etc.) for ata monitoring board, study design, manuscript preparation,
Section 3. Relevant financial	activities outside the s	submitted work.
of compensation) with entities as descri	ibed in the instructions. Us port relationships that we est?	ether you have financial relationships (regardless of amount se one line for each entity; add as many lines as you need by re <b>present during the 36 months prior to publication</b> .
Name of Entity	Grant•	n-Financial oupport? Other? Comments
Gilead		Employee and stock holder
Section 4.	Datante 9 Canvri	

Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes 🖌 No

**Intellectual Property -- Patents & Copyrights** 



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Dr. Jiang reports other from Gilead, outside the submitted work; .

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Goodman



Section 1.	Identifying Inform	ation		
1. Given Name (First Name) Zachary		2. Surname (Last Name) Goodman		3. Date 04-November-2019
4. Are you the corresponding author?		Yes 🖌 No	Corresponding Author's Name Michael Trauner	
, ,		ood are associated with r	narked age acceleration and	disease progression in patients
6. Manuscript Ider JHEPR-D-19-001	ntifying Number (if you kn 52	now it)		
Section 2.	The Work Under Co	onsideration for Publ	ication	
	•		n a third party (government, coi lata monitoring board, study de	mmercial, private foundation, etc.) for sign, manuscript preparation,

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Place a check in the appropriate boxes in the table to indicate whether you have financial relationships (regardless of amount of compensation) with entities as described in the instructions. Use one line for each entity; add as many lines as you need by clicking the "Add +" box. You should report relationships that were **present during the 36 months prior to publication**.

✓ No

Yes

Are there any relevant conflicts of interest?		No
Are there any relevant connicts of interest:	v res	

If yes, please fill out the appropriate information below.

statistical analysis, etc.)?

Are there any relevant conflicts of interest?

Name of Entity	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments	
Gilead	$\checkmark$					
Intercept	$\checkmark$					
Novartis	$\checkmark$					
Bristol-Myers Squibb	$\checkmark$					
Allergan	$\checkmark$					
Merck	$\checkmark$					



## Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes 🖌 No

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#### **Evaluation and Feedback**