Date:	Jun. 30	th , 2021
Your N	lame:	Sumito Sato
Manus	cript Title	: Automated non-invasive identification of pelvic autonomic nerves with a handheld Raman
spectro	ometer an	d potential application to nerve-sparing colorectal surgery: a preliminary study in surgical specimens
Manus	script num	ber (if known):

In the interest of transparency, we ask you to disclose all relationships/activities/interests listed below that are related to the content of your manuscript. "Related" means any relation with for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript. Disclosure represents a commitment to transparency and does not necessarily indicate a bias. If you are in doubt about whether to list a relationship/activity/interest, it is preferable that you do so.

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		Name all entities with whom you have this relationship or indicate none (add rows as needed) Time frame: Since the initial	Specifications/Comments (e.g., if payments were made to you or to your institution) planning of the work
1	All support for the present manuscript (e.g., funding, provision of study materials, medical writing, article processing charges, etc.) No time limit for this item.	Rigaku JSPS	The author thanks Rigaku Corporation for their technical support related to the use of Progeny™ This work was supported by JSPS KAKENHI (Grant Number 19K09228)
		Time frame: past	36 months
2	Grants or contracts from any entity (if not indicated in item #1 above).	XNone	
3	Royalties or licenses	XNone	
4	Consulting fees	XNone	

5	Payment or honoraria for	XNone	
	lectures, presentations,		
	speakers bureaus,		
	manuscript writing or educational events		
6	Payment for expert	X None	
U	testimony	XNOTE	
	,		
7	Support for attending	XNone	
	meetings and/or travel		
8	Patents planned, issued or	X None	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society, committee or advocacy		
	group, paid or unpaid		
11	Stock or stock options	X None	
11	Stock of Stock options	XNOTE	
12	Receipt of equipment,	X None	
	materials, drugs, medical		
	writing, gifts or other		
	services		
13	Other financial or non-	XNone	
	financial interests		

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Please place an "X" next to the following statement to indicate your agreement:

Date:	Jun. 29 ^{ti}	, 2021
Your Nar	me:	Hirotada Kagoshima
Manuscr	ript Title:	Automated non-invasive identification of pelvic autonomic nerves with a handheld Raman
spectron	neter and	potential application to nerve-sparing colorectal surgery: a preliminary study in surgical specimens
Manuscr	ript numb	er (if known):

In the interest of transparency, we ask you to disclose all relationships/activities/interests listed below that are related to the content of your manuscript. "Related" means any relation with for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript. Disclosure represents a commitment to transparency and does not necessarily indicate a bias. If you are in doubt about whether to list a relationship/activity/interest, it is preferable that you do so.

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		Name all entities with whom you have this relationship or indicate none (add rows as needed)	Specifications/Comments (e.g., if payments were made to you or to your institution)
		Time frame: Since the initial	planning of the work
1	All support for the present	Rigaku	The author is an employee of Rigaku Corporation.
	manuscript (e.g., funding, provision of study materials, medical writing, article processing charges, etc.) No time limit for this item.	JSPS	This work was supported by JSPS KAKENHI (Grant Number 19K09228)
		Time frame: past	36 months
2	Grants or contracts from any entity (if not indicated	XNone	
	in item #1 above).		
3	Royalties or licenses	XNone	
4	Consulting fees	XNone	

5	Payment or honoraria for	XNone	
	lectures, presentations,		
	speakers bureaus,		
	manuscript writing or		
_	educational events		
6	Payment for expert	XNone	
	testimony		
7	Consent for other disc	V Nana	
/	Support for attending meetings and/or travel	XNone	
8	Patents planned, issued or	XNone	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society, committee or advocacy		
	group, paid or unpaid		
11	Stock or stock options	XNone	
12	Receipt of equipment,	X_None	
	materials, drugs, medical		
	writing, gifts or other services		
13	Other financial or non-	X None	
	financial interests		

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This work was supported by 1525 KAKENHI (Grant Number 19809228).	

Please place an "X" next to the following statement to indicate your agreement:

Date:	<u>Jun. 30</u>	th <mark>, 2021</mark>
Your I	Name:	Manabu Shiozawa
Manu	script Title:	Automated non-invasive identification of pelvic autonomic nerves with a handheld Raman
<u>spectr</u>	ometer an	d potential application to nerve-sparing colorectal surgery: a preliminary study in surgical specimens
Manu	script num	per (if known):

In the interest of transparency, we ask you to disclose all relationships/activities/interests listed below that are related to the content of your manuscript. "Related" means any relation with for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript. Disclosure represents a commitment to transparency and does not necessarily indicate a bias. If you are in doubt about whether to list a relationship/activity/interest, it is preferable that you do so.

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All support for the present manuscript (e.g., funding,	Rigaku	The author thanks Rigaku Corporation for their technical support related to the use of Progeny™ This work was supported by JSPS KAKENHI
medical writing, article	1353	(Grant Number 19K09228)
No time limit for this item.		
	Time frame: past	36 months
Grants or contracts from any entity (if not indicated	XNone	
in item #1 above).	V. None	
Royalties of licenses	ANone	
Consulting fees	XNone	
	manuscript (e.g., funding, provision of study materials, medical writing, article processing charges, etc.) No time limit for this item. Grants or contracts from any entity (if not indicated in item #1 above). Royalties or licenses	whom you have this relationship or indicate none (add rows as needed) Time frame: Since the initial All support for the present manuscript (e.g., funding, provision of study materials, medical writing, article processing charges, etc.) No time limit for this item. Time frame: past X_None Time frame: past X_None Royalties or licenses X_None

5	Payment or honoraria for	XNone	
	lectures, presentations,		
	speakers bureaus,		
	manuscript writing or educational events		
6	Payment for expert	X None	
U	testimony	XNOTE	
	,		
7	Support for attending	XNone	
	meetings and/or travel		
8	Patents planned, issued or	X None	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society, committee or advocacy		
	group, paid or unpaid		
11	Stock or stock options	X None	
11	Stock of Stock options	XNOTE	
12	Receipt of equipment,	X None	
	materials, drugs, medical		
	writing, gifts or other		
	services		
13	Other financial or non-	XNone	
	financial interests		

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Please place an "X" next to the following statement to indicate your agreement:

Date:	Jun.	30 th ,	2021
Your N	lame:	Sı	iguru Nukada
Manus	script Tit	le: <u>/</u>	Automated non-invasive identification of pelvic autonomic nerves with a handheld Raman
spectro	ometer a	and p	otential application to nerve-sparing colorectal surgery: a preliminary study in surgical specimens
Manus	script nu	mbei	(if known):

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medical writing, article	1353	(Grant Number 19K09228)
No time limit for this item.		
	Time frame: past	36 months
Grants or contracts from any entity (if not indicated	XNone	
in item #1 above).	V. None	
Royalties of licenses	ANone	
Consulting fees	XNone	
	manuscript (e.g., funding, provision of study materials, medical writing, article processing charges, etc.) No time limit for this item. Grants or contracts from any entity (if not indicated in item #1 above). Royalties or licenses	whom you have this relationship or indicate none (add rows as needed) Time frame: Since the initial All support for the present manuscript (e.g., funding, provision of study materials, medical writing, article processing charges, etc.) No time limit for this item. Time frame: past X_None Time frame: past X_None Royalties or licenses X_None

5	Payment or honoraria for	XNone	
	lectures, presentations,		
	speakers bureaus,		
	manuscript writing or educational events		
6	Payment for expert	X None	
U	testimony	XNOTE	
	,		
7	Support for attending	XNone	
	meetings and/or travel		
8	Patents planned, issued or	X None	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society, committee or advocacy		
	group, paid or unpaid		
11	Stock or stock options	X None	
11	Stock of Stock options	XNOTE	
12	Receipt of equipment,	X None	
	materials, drugs, medical		
	writing, gifts or other		
	services		
13	Other financial or non-	XNone	
	financial interests		

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Please place an "X" next to the following statement to indicate your agreement:

Date:	Jun. 3	. 30 th , 2021	
Your N	Name:	Kenta Iguchi	
Manus	script Tit	itle: Automated non-invasive identification of pelvic autonomic ne	erves with a handheld Raman
spectr	ometer a	and potential application to nerve-sparing colorectal surgery: a pro	<u>eliminary study in surgical specimens</u>
Manus	script nu	umber (if known):	

In the interest of transparency, we ask you to disclose all relationships/activities/interests listed below that are related to the content of your manuscript. "Related" means any relation with for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript. Disclosure represents a commitment to transparency and does not necessarily indicate a bias. If you are in doubt about whether to list a relationship/activity/interest, it is preferable that you do so.

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The author's relationships/activities/interests should be <u>defined broadly</u>. For example, if your manuscript pertains to the epidemiology of hypertension, you should declare all relationships with manufacturers of antihypertensive medication, even if that medication is not mentioned in the manuscript.

	Name all entities with whom you have this relationship or indicate none (add rows as needed) Time frame: Since the initial	Specifications/Comments (e.g., if payments were made to you or to your institution) planning of the work
All support for the present manuscript (e.g., funding,	Rigaku	The author thanks Rigaku Corporation for their technical support related to the use of Progeny™ This work was supported by JSPS KAKENHI
medical writing, article	1353	(Grant Number 19K09228)
No time limit for this item.		
	Time frame: past	36 months
Grants or contracts from any entity (if not indicated	XNone	
in item #1 above).	V. None	
Royalties of licenses	ANone	
Consulting fees	XNone	
	manuscript (e.g., funding, provision of study materials, medical writing, article processing charges, etc.) No time limit for this item. Grants or contracts from any entity (if not indicated in item #1 above). Royalties or licenses	whom you have this relationship or indicate none (add rows as needed) Time frame: Since the initial All support for the present manuscript (e.g., funding, provision of study materials, medical writing, article processing charges, etc.) No time limit for this item. Time frame: past X_None Time frame: past X_None Royalties or licenses X_None

5	Payment or honoraria for	XNone	
	lectures, presentations,		
	speakers bureaus,		
	manuscript writing or educational events		
6	Payment for expert	X None	
U	testimony	XNOTE	
	,		
7	Support for attending	XNone	
	meetings and/or travel		
8	Patents planned, issued or	X None	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society, committee or advocacy		
	group, paid or unpaid		
11	Stock or stock options	X None	
11	Stock of Stock options	XNOTE	
12	Receipt of equipment,	X None	
	materials, drugs, medical		
	writing, gifts or other		
	services		
13	Other financial or non-	XNone	
	financial interests		

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Please place an "X" next to the following statement to indicate your agreement:

Date: <u>Jun. 30th, 2021</u>	
Your Name: Yo Mikayama	
Manuscript Title: <u>Automated non-invasive identification of pelvic autonomic nerves with a handheld Raman</u>	
spectrometer and potential application to nerve-sparing colorectal surgery: a preliminary study in surgical specime	<u>ns</u>
Manuscript number (if known):	

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1	All support for the present manuscript (e.g., funding,	Rigaku	The author thanks Rigaku Corporation for their technical support related to the use of Progeny™
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	No time limit for this item.		
		Time frame: past	36 months
2	Grants or contracts from any entity (if not indicated in item #1 above).	XNone	
3	Royalties or licenses	XNone	
4	Consulting fees	XNone	

5	Payment or honoraria for	XNone	
	lectures, presentations,		
	speakers bureaus,		
	manuscript writing or educational events		
6	Payment for expert	X None	
U	testimony	XNOTE	
	,		
7	Support for attending	XNone	
	meetings and/or travel		
8	Patents planned, issued or	X None	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society, committee or advocacy		
	group, paid or unpaid		
11	Stock or stock options	X None	
11	Stock of Stock options	XNOTE	
12	Receipt of equipment,	X None	
	materials, drugs, medical		
	writing, gifts or other		
	services		
13	Other financial or non-	XNone	
	financial interests		

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Please place an "X" next to the following statement to indicate your agreement:

Date:	Jun.	30 th ,	2021
Your N	lame:	Т	akashi Oshima
Manus	cript Tit	le: _	Automated non-invasive identification of pelvic autonomic nerves with a handheld Raman
spectro	ometer a	and I	potential application to nerve-sparing colorectal surgery: a preliminary study in surgical specimens
Manus	script nu	mbe	er (if known):

In the interest of transparency, we ask you to disclose all relationships/activities/interests listed below that are related to the content of your manuscript. "Related" means any relation with for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript. Disclosure represents a commitment to transparency and does not necessarily indicate a bias. If you are in doubt about whether to list a relationship/activity/interest, it is preferable that you do so.

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	No time limit for this item.		
		Time frame: past	36 months
2	Grants or contracts from any entity (if not indicated in item #1 above).	XNone	
3	Royalties or licenses	XNone	
4	Consulting fees	XNone	

5	Payment or honoraria for	XNone	
	lectures, presentations,		
	speakers bureaus,		
	manuscript writing or educational events		
6	Payment for expert	X None	
U	testimony	XNOTE	
	,		
7	Support for attending	XNone	
	meetings and/or travel		
8	Patents planned, issued or	X None	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society, committee or advocacy		
	group, paid or unpaid		
11	Stock or stock options	X None	
11	Stock of Stock options	XNOTE	
12	Receipt of equipment,	X None	
	materials, drugs, medical		
	writing, gifts or other		
	services		
13	Other financial or non-	XNone	
	financial interests		

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Please place an "X" next to the following statement to indicate your agreement:

Date:	Jun. 30	^h , 2021
Your I	Name:	Masakatsu Numata
Manu	script Title:	Automated non-invasive identification of pelvic autonomic nerves with a handheld Raman
<u>spectr</u>	ometer an	d potential application to nerve-sparing colorectal surgery: a preliminary study in surgical specimens
Manu	script num	per (if known):

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All support for the present manuscript (e.g., funding,	Rigaku	The author thanks Rigaku Corporation for their technical support related to the use of Progeny™ This work was supported by JSPS KAKENHI
medical writing, article	1353	(Grant Number 19K09228)
No time limit for this item.		
	Time frame: past	36 months
Grants or contracts from any entity (if not indicated	XNone	
in item #1 above).	V. None	
Royalties of licenses	ANone	
Consulting fees	XNone	
	manuscript (e.g., funding, provision of study materials, medical writing, article processing charges, etc.) No time limit for this item. Grants or contracts from any entity (if not indicated in item #1 above). Royalties or licenses	whom you have this relationship or indicate none (add rows as needed) Time frame: Since the initial All support for the present manuscript (e.g., funding, provision of study materials, medical writing, article processing charges, etc.) No time limit for this item. Time frame: past X_None Time frame: past X_None Royalties or licenses X_None

5	Payment or honoraria for lectures, presentations,	XNone	
	speakers bureaus,		
	manuscript writing or educational events		
6	Payment for expert	X None	
U	testimony	XNOTE	
	testimony		
7	Support for attending	XNone	
	meetings and/or travel		
8	Patents planned, issued or	X None	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society, committee or advocacy		
	group, paid or unpaid		
11	Stock or stock options	X None	
11	Stock of Stock options		
12	Receipt of equipment,	X None	
	materials, drugs, medical		
	writing, gifts or other		
	services		
13	Other financial or non-	XNone	
	financial interests		

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Please place an "X" next to the following statement to indicate your agreement:

Date: <u>Jun. 30th, 2021</u>
Your Name: Hiroshi Tamagawa
Manuscript Title: Automated non-invasive identification of pelvic autonomic nerves with a handheld Raman
spectrometer and potential application to nerve-sparing colorectal surgery: a preliminary study in surgical specimens
Manuscript number (if known):
•

In the interest of transparency, we ask you to disclose all relationships/activities/interests listed below that are related to the content of your manuscript. "Related" means any relation with for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript. Disclosure represents a commitment to transparency and does not necessarily indicate a bias. If you are in doubt about whether to list a relationship/activity/interest, it is preferable that you do so.

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	No time limit for this item.	Time frame: past	36 months
2	Grants or contracts from any entity (if not indicated in item #1 above).	XNone	
3	Royalties or licenses	XNone	
4	Consulting fees	XNone	

5	Payment or honoraria for lectures, presentations,	XNone	
	speakers bureaus,		
	manuscript writing or educational events		
6	Payment for expert	X None	
U	testimony	XNOTE	
	testimony		
7	Support for attending	XNone	
	meetings and/or travel		
8	Patents planned, issued or	X None	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society, committee or advocacy		
	group, paid or unpaid		
11	Stock or stock options	X None	
11	Stock of Stock options		
12	Receipt of equipment,	X None	
	materials, drugs, medical		
	writing, gifts or other		
	services		
13	Other financial or non-	XNone	
	financial interests		

The author thanks Rigaku Corporation for their technical support related to the use of Progeny™ This work was supported by JSPS KAKENHI (Grant Number 19K09228)

Please place an "X" next to the following statement to indicate your agreement:

Date:	Jun. 30 ^t	, 2021
Your Nan	me:	Yasushi Rino
Manuscri	ipt Title:	Automated non-invasive identification of pelvic autonomic nerves with a handheld Raman
spectrom	neter and	potential application to nerve-sparing colorectal surgery: a preliminary study in surgical specimens
Manuscri	ipt numb	er (if known):

In the interest of transparency, we ask you to disclose all relationships/activities/interests listed below that are related to the content of your manuscript. "Related" means any relation with for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript. Disclosure represents a commitment to transparency and does not necessarily indicate a bias. If you are in doubt about whether to list a relationship/activity/interest, it is preferable that you do so.

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		Time frame: past	36 months
2	Grants or contracts from any entity (if not indicated in item #1 above).	XNone	
3	Royalties or licenses	X_None	
4	Consulting fees	XNone	

5	Payment or honoraria for lectures, presentations,	XNone	
	speakers bureaus,		
	manuscript writing or educational events		
6	Payment for expert	X None	
U	testimony	XNOTE	
	testimony		
7	Support for attending	XNone	
	meetings and/or travel		
8	Patents planned, issued or	X None	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society, committee or advocacy		
	group, paid or unpaid		
11	Stock or stock options	X None	
11	Stock of Stock options	XNOTE	
12	Receipt of equipment,	X None	
	materials, drugs, medical		
	writing, gifts or other		
	services		
13	Other financial or non-	XNone	
	financial interests		

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Please place an "X" next to the following statement to indicate your agreement:

Date:	Jun. 3	^{0th} , 2021
Your I	Name:	Munetaka Masuda
Manu	script Title	e: Automated non-invasive identification of pelvic autonomic nerves with a handheld Raman
<u>spectr</u>	ometer ar	nd potential application to nerve-sparing colorectal surgery: a preliminary study in surgical specimens
Manu	script nun	nber (if known):

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	provision of study materials, medical writing, article processing charges, etc.)	JSPS	This work was supported by JSPS KAKENHI (Grant Number 19K09228)
	No time limit for this item.		
		Time frame: past	36 months
2	Grants or contracts from any entity (if not indicated in item #1 above).	XNone	
3	Royalties or licenses	X_None	
4	Consulting fees	XNone	

5	Payment or honoraria for lectures, presentations,	XNone	
	speakers bureaus,		
	manuscript writing or educational events		
6	Payment for expert	X None	
U	testimony	XNOTE	
	testimony		
7	Support for attending	XNone	
	meetings and/or travel		
8	Patents planned, issued or	X None	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society, committee or advocacy		
	group, paid or unpaid		
11	Stock or stock options	X None	
11	Stock of Stock options	XNOTE	
12	Receipt of equipment,	X None	
	materials, drugs, medical		
	writing, gifts or other		
	services		
13	Other financial or non-	XNone	
	financial interests		

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Date:	Jun.	30 th ,	2021
Your N	lame:	K	uniya Tanaka
Manus	script Tit	le: _	Automated non-invasive identification of pelvic autonomic nerves with a handheld Raman
spectro	ometer a	and _I	potential application to nerve-sparing colorectal surgery: a preliminary study in surgical specimens
Manus	script nu	ımbe	r (if known):

In the interest of transparency, we ask you to disclose all relationships/activities/interests listed below that are related to the content of your manuscript. "Related" means any relation with for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript. Disclosure represents a commitment to transparency and does not necessarily indicate a bias. If you are in doubt about whether to list a relationship/activity/interest, it is preferable that you do so.

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	No time limit for this item.		
		Time frame: past	36 months
2	Grants or contracts from any entity (if not indicated in item #1 above).	XNone	
3	Royalties or licenses	X_None	
4	Consulting fees	XNone	

5	Payment or honoraria for lectures, presentations,	XNone	
	speakers bureaus,		
	manuscript writing or educational events		
6	Payment for expert testimony	X None	
		XNOTE	
	,		
7	Support for attending meetings and/or travel	XNone	
8	Patents planned, issued or pending	X None	
9	Participation on a Data Safety Monitoring Board or Advisory Board	XNone	
10	Leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid	XNone	
11	Stock or stock options	X None	
11	Stock of Stock options	XNOTE	
12	Receipt of equipment,	X None	
	materials, drugs, medical		
	writing, gifts or other		
	services		
13	Other financial or non-	XNone	
	financial interests		

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