

#### **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.

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## 4. Intellectual Property.

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

# Relationships not covered above.

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**Licensed:** The patent has been licensed to an entity, whether earning royalties or not

**Royalties:** Funds are coming in to you or your institution due to your

patent

Ludwig 1



Section 1.	Identifying Inform	nation	
1. Given Name (First Name) Kai		2. Surname (Last Name) Ludwig	3. Date 24-June-2019
4. Are you the cor	4. Are you the corresponding author? Yes ✓ No		Corresponding Author's Name Jutta M Ellermann
5. Manuscript Title 3D Quantitative Osteochondritis	MRI Of Epiphyseal Cart	ilage Vascularity Using Ve	sselness Image Features – New Insights Into Juvenile
6. Manuscript Ider JBJSOA-D-18-000	ntifying Number (if you kr 031	now it)	
Section 2.	The Work Under Co	onsideration for Publi	cation
any aspect of the s statistical analysis,	ubmitted work (including	but not limited to grants, do	a third party (government, commercial, private foundation, etc.) for ata monitoring board, study design, manuscript preparation,
Section 3.			
Place a check in t	:he appropriate boxes i		ether 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 <b>present during the 36 months prior to publication</b> .			
Are there any rele	evant conflicts of intere	est? Yes ✓ No	
	l		
Section 4.	Intellectual Proper	ty Patents & Copyri	ghts
Do you have any	patents, whether plan	ned, pending or issued, b	roadly relevant to the work? Yes V No

Ludwig 2



Section 5. Relationships not covered above
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Dr. Ludwig has nothing to disclose.

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Ludwig 3



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Wang 1



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1. Given Name (First Name) Luning		2. Surname (Last Name) Wang	3. Date 24-June-2019
4. Are you the cor	corresponding author? Yes V		Corresponding Author's Name Jutta M Ellermann
5. Manuscript Title 3D Quantitative MRI Of Epiphyseal Cartilage Vascularity Using Vesselness Image Features – New Insights Into Juvenile Osteochondritis Dissecans 6. Manuscript Identifying Number (if you know it)			sselness Image Features – New Insights Into Juvenile
JBJSOA-D-18-000	, ,	iow it,	_
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of compensation clicking the "Add	the appropriate boxes i ) with entities as descri	n the table to indicate wh 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 re present during the 36 months prior to publication.
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Dr. Luning Wang has nothing to disclose.

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Nissi 1



Section 1. Identifying Inform	nation		
1. Given Name (First Name) Mikko	2. Surname (Last Name) Nissi		3. Date 24-June-2019
4. Are you the corresponding author?	Yes V No	Corresponding Auth	or's Name
<ol> <li>Manuscript Title</li> <li>Quantitative MRI Of Epiphyseal Cart</li> <li>Osteochondritis Dissecans</li> </ol>	ilage Vascularity Using Ve	sselness Image Featu	res – New Insights Into Juvenile
6. Manuscript Identifying Number (if you kr JBJSOA-D-18-00031	iow it)	_	
Section 2. The Work Under Co	onsideration for Public	4:	
	ive payment or services from but not limited to grants, da	a third party (governm	ent, commercial, private foundation, etc.) for cudy design, manuscript preparation,
If yes, please fill out the appropriate info Excess rows can be removed by pressing	g the "X" button.		ity press the "ADD" button to add a row.
Name of Institution/Company	Grant'	n-Financial Support?	Comments
Academy of Finland	✓		Grant #285909
Section 3. Relevant financial	activities outside the s	submitted work.	
Place a check in the appropriate boxes i of compensation) with entities as descri clicking the "Add +" box. You should rep Are there any relevant conflicts of intere	ibed in the instructions. Us port relationships that we	se one line for each e	ntity; add as many lines as you need by
Section 4. Intellectual Proper	ty Patents & Copyri	ghts	
Do you have any patents, whether plan	ned, pending or issued, br	oadly relevant to the	work? ☐ Yes ✓ No

Nissi 2



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Dr. Nissi reports grants from Academy of Finland, during the conduct of the study; .

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Shea 1



Section 1. Identifying Inform	nation	
Given Name (First Name)     Shea  2. Surname (Last Name)  Shea		3. Date 10-July-2019
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding Author's Name Jutta M Ellermann
5. Manuscript Title 3D Quantitative MRI Of Epiphyseal Carl Osteochondritis Dissecans	tilage Vascularity Using Ves	sselness Image Features – New Insights Into Juvenile
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Intellectual Prope	rty Patents & Copyric	hts
Do you have any patents, whether plan	ned, pending or issued, br	oadly relevant to the work? Yes V No

Shea 2



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Shea 3



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Strupp 1



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1. Given Name (First Name)  2. Surname (Last Name)  John  Strupp		` ,	3. Date 24-June-2019
4. Are you the cor	responding author? Yes V		Corresponding Author's Name Jutta M Ellermann
3D Quantitative Osteochondritis	5. Manuscript Title 3D Quantitative MRI Of Epiphyseal Cartilage Vascularity Using Vesselness Image Features – New Insights Into Juvenile Osteochondritis Dissecans 6. Manuscript Identifying Number (if you know it)		
JBJSOA-D-18-00	, ,	,	_
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any aspect of the s statistical analysis,	ubmitted work (including	but not limited to grants, da	a third party (government, commercial, private foundation, etc.) for ta monitoring board, study design, manuscript preparation,
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Strupp 2



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Dr. Strupp has n	othing to disclose.

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**Other:** Anything not covered under the previous three boxes

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**Issued:** The patent has been issued by the agency

**Licensed:** The patent has been licensed to an entity, whether earning royalties or not

**Royalties:** Funds are coming in to you or your institution due to your patent

Tompkins 1



Section 1. Identifying Information
1. Given Name (First Name) 2. Surname (Last Name) 3. Date Marc Tompkins 24-June-2019
4. Are you the corresponding author?
5. Manuscript Title 3D Quantitative MRI Of Epiphyseal Cartilage Vascularity Using Vesselness Image Features – New Insights Into Juvenile Osteochondritis Dissecans 6. Manuscript Identifying Number (if you know it)
JBJSOA-D-18-00031
Section 2. The Work Under Consideration for Publication
Did you or your institution <b>at any time</b> 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  No
Section 3.  Relevant financial activities outside the submitted work.
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 <b>present during the 36 months prior to publication</b> .  Are there any relevant conflicts of interest? Yes Vo
Section 4. Intellectual Property Patents & Copyrights
Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes V No
Intellectual Property Patents & Copyrights

Tompkins 2



Section 5. Relationships not covered above
Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?
Yes, the following relationships/conditions/circumstances are present (explain below):
✓ No other relationships/conditions/circumstances that present a potential conflict of interest
At the time of manuscript acceptance, journals will ask authors to confirm and, if necessary, update their disclosure statements On occasion, journals may ask authors to disclose further information about reported relationships.
Section 6. Disclosure Statement
Disclosure Statement
Based on the above disclosures, this form will automatically generate a disclosure statement, which will appear in the box below.
Dr. Tompkins has nothing to disclose.

### **Evaluation and Feedback**

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Tompkins 3



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**Royalties:** Funds are coming in to you or your institution due to your patent

Zbyn 1



Section 1. Identifying Inform	nation		
1. Given Name (First Name) Stefan	2. Surname (Last Name) Zbyn		3. Date 30-September-2019
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding Autho	or's Name
5. Manuscript Title 3D QUANTITATIVE MRI OF EPIPHYSEAL INTO JUVENILE OSTEOCHONDRITIS DIS 6. Manuscript Identifying Number (if you kr	SECANS	USING VESSELNESS II	MAGE FEATURES – NEW INSIGHTS
		_	
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	but not limited to grants, datest? Yes No primation below. If you have	ta monitoring board, stu	ent, commercial, private foundation, etc.) for udy design, manuscript preparation, ty press the "ADD" button to add a row.
Name of Institution/Company	Grant? Personal Nor	n-Financial Other?	Comments
NIH/NIBIB P41 EB015894 - NMR Imaging and Spectroscopy	<b>V</b>		
Section 3. Relevant financial	activities outside the s	ubmitted work.	
Place a check in the appropriate boxes in of compensation) with entities as described the "Add +" box. You should repare there any relevant conflicts of interests."	bed in the instructions. Us port relationships that wer	e one line for each er	ntity; add as many lines as you need by
Section 4. Intellectual Proper	ty Patents & Copyric	jhts .	
Do you have any patents, whether plan	ned, pending or issued, br	oadly relevant to the	work? Yes V

Zbyn 2



Section 5. Polationships not severed above
Relationships not covered above
Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?
Yes, the following relationships/conditions/circumstances are present (explain below):
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Dr. Zbyn reports grants from NIH/NIBIB P41 EB015894 - NMR Imaging and Spectroscopy, during the conduct of the study; .

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**Royalties:** Funds are coming in to you or your institution due to your

patent

Arendt 1



Section 1. Identifying Inform	mation	
1. Given Name (First Name) Elizabeth	2. Surname (Last Name) Arendt	3. Date 26-June-2019
4. Are you the corresponding author?	Yes ✓ No	Corresponding Author's Name Jutta M Ellermann
5. Manuscript Title 3D QUANTITATIVE MRI OF EPIPHYSEAL INTO JUVENILE OSTEOCHONDRITIS DIS		USING VESSELNESS IMAGE FEATURES – NEW INSIGHTS
6. Manuscript Identifying Number (if you k JBJSOA-D-19-00031R1	now it)	
Section 2. The Work Under C	Consideration for Public	ation
	g but not limited to grants, da	a third party (government, commercial, private foundation, etc.) for ta monitoring board, study design, manuscript preparation,
Section 3. Polyant financia		
Relevant financia	activities outside the s	ubmitted work.
of compensation) with entities as desc	ribed in the instructions. Us	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> .
Are there any relevant conflicts of inter	rest?	
Section 4. Intellectual Prope	rty Patents & Copyrig	hts
Do you have any patents, whether plan	nned, pending or issued, bro	oadly relevant to the work? Yes V No

Arendt 2



Section 5. Belationships not sovered above	
Relationships not covered above	
Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?	
Yes, the following relationships/conditions/circumstances are present (explain below):	
✓ No other relationships/conditions/circumstances that present a potential conflict of interest	
At the time of manuscript acceptance, journals will ask authors to confirm and, if necessary, update their disclosure statemer On occasion, journals may ask authors to disclose further information about reported relationships.	nts.
Section 6. Disclosure Statement	
Based on the above disclosures, this form will automatically generate a disclosure statement, which will appear in the box below.	
Dr. Arendt has nothing to disclose.	

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**Royalties:** Funds are coming in to you or your institution due to your patent

Carlson 1



Section 1. Identifying Inform						
Identifying Information	ation					
Given Name (First Name)  Cathy	2. Surnar Carlson	me (Last Nar	me)		3. Date 24-June-2019	
4. Are you the corresponding author?	Yes	<b>✓</b> No	-	Corresponding Author's Name Jutta M Ellermann		
5. Manuscript Title 3D Quantitative MRI Of Epiphyseal Cartil Osteochondritis Dissecans	age Vascı	ularity Usin	g Vesselness Ima	ge Featui	res – New Insights Into Juvenile	
6. Manuscript Identifying Number (if you kno JBJSOA-D-18-00031	ow it)					
Section 2. The Work Under Co	nsidera	tion for P	ublication			
Did you or your institution <b>at any time</b> received any aspect of the submitted work (including statistical analysis, etc.)?  Are there any relevant conflicts of interest of the submitted work (including statistical analysis, etc.)?	but not limst? \( \sqrt{1}\) rmation b	rited to gran	nts, data monitoring	board, st	udy design, manuscript preparation,	
Name of Institution/Company	Grant?	Personal Fees	Non-Financial Support?	Other?	Comments	
NIH/NIAMS R01 AR070020 – Novel MRI Methods for Osteochondritis Dissecans (OCD) / Osteochondrosis (OC)	<b>√</b>				I receive salary support from this grant.	
NIH/NIAMS K01 AR070894 – Ultrahigh-Field MRI of HIP Joint Diseases Leading to Early Osteoarthritis	<b>✓</b>				I serve on the mentor team of the PI (Dr. Casey Johnson) for this grant	
NIH K01 OD021293 – Development and MRI characterization of a goat model of human osteochondrosis	<b>✓</b>				I serve as primary mentor for the PI (Dr. Ferenc Toth) of this grant.	
Section 3. Relevant financial a	ctivities	outside :	the submitted	work		
_						
Place a check in the appropriate boxes ir of compensation) with entities as described clicking the "Add +" box. You should rep	ed in the	instruction	ns. Use one line fo	or each er	ntity; add as many lines as you need by	
Are there any relevant conflicts of interes	st?	Yes ✓	No			

Carlson 2



Soutien A
Section 4. Intellectual Property Patents & Copyrights
Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes Volume
Section 5. Relationships not covered above
Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?
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Dr. Carlson reports grants from NIH/NIAMS R01 AR070020 – Novel MRI Methods for Osteochondritis Dissecans (OCD) / Osteochondrosis (OC), grants from NIH/NIAMS K01 AR070894 – Ultrahigh-Field MRI of HIP Joint Diseases Leading to Early Osteoarthritis, grants from NIH K01 OD021293 – Development and MRI characterization of a goat model of human osteochondrosis, during the conduct of the study; .

#### **Evaluation and Feedback**

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Carlson 3



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**Royalties:** Funds are coming in to you or your institution due to your patent

1

administrative support, etc.



Section 1. Identifying Inform	ation		
1. Given Name (First Name) Casey	2. Surname (Last Name) Johnson		3. Date 24-June-2019
4. Are you the corresponding author?	Yes ✓ No	Corresponding Author	or's Name
<ol> <li>Manuscript Title</li> <li>Quantitative MRI Of Epiphyseal Carti</li> <li>Osteochondritis Dissecans</li> </ol>	lage Vascularity Using Ve	sselness Image Featu	res – New Insights Into Juvenile
6. Manuscript Identifying Number (if you kn JBJSOA-D-18-00031	ow it)	_	
Section 2. The Work Under Co			
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	but not limited to grants, da	ata monitoring board, st	ent, commercial, private foundation, etc.) for cudy design, manuscript preparation, ity press the "ADD" button to add a row.
Excess rows can be removed by pressing		re more than one ent	ny press are 7.55 batton to add a form
Name of Institution/Company	Grant	n-Financial Other?	Comments
National Institutes of Health	<b>√</b>		NIH/NIAMS K01 AR070894
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Johnson 2



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Dr. Johnson reports grants from National Institutes of Health (K01 AR07894), during the conduct of the study;.

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**Non-Financial Support:** Examples include drugs/equipment supplied by the entity, travel paid by the entity, writing assistance, administrative support, etc.

Other: Anything not covered under the previous three boxes

**Pending:** The patent has been filed but not issued **Issued:** The patent has been issued by the agency

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**Royalties:** Funds are coming in to you or your institution due to your patent

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administrative support, etc.



Section 1. Identifying In	formation					
1. Given Name (First Name) Jutta	2. Surname (Last Name)  Ellermann  3. Date  24-June-2019					
4. Are you the corresponding author	uthor? ✓ Yes No					
5. Manuscript Title 3D Quantitative MRI Of Epiphysea Osteochondritis Dissecans	ıl Cartilage Vascularity Using Vesselness Im	nage Features – New Insights Into Juvenile				
6. Manuscript Identifying Number (if JBJSOA-D-18-00031	you know it)					
Section 2. The Work Unc	der Consideration for Publication					
		ty (government, commercial, private foundation, etc.) for ing board, study design, manuscript preparation,				
Are there any relevant conflicts of						
Excess rows can be removed by p	•	an one entity press the "ADD" button to add a row.				
Name of Institution/Company	Grant? Personal Non-Financia Fees? Support?	Other? Comments				
NIH (NIAMS), both grants		RO1 AR70020 Grant Principal Investigator, KO1 AR070894, role: mentor for Casey P Johnson grant.				
Section 3. Relevant final	ncial activities outside the submitted	d work.				
of compensation) with entities as	described in the instructions. Use one line	have financial relationships (regardless of amount for each entity; add as many lines as you need by a during the 36 months prior to publication.				
Are there any relevant conflicts of	interest?					
Section 4. Intellectual Pr	roperty Patents & Copyrights					
Do you have any patents, whether	r planned, pending or issued, broadly relev	vant to the work? Yes V No				

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Section 5. Polationships not severed above
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Dr. Ellermann is PI/PD for the grant stated above and in addition serves as a mentor for the KO1 grant of Casey Johnson. These are NIH grants.

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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.

## Identifying information.

## 2. The work under consideration for publication.

This section asks for information about the work that you have submitted for publication. The time frame for this reporting is that of the work itself, from the initial conception and planning to the present. The requested information is about resources that you received, either directly or indirectly (via your institution), to enable you to complete the work. Checking "No" means that you did the work without receiving any financial support from any third party -- that is, the work was supported by funds from the same institution that pays your salary and that institution did not receive third-party funds with which to pay you. If you or your institution received funds from a third party to support the work, such as a government granting agency, charitable foundation or commercial sponsor, check "Yes".

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Section 1. Identifying Inform	ation				
1. Given Name (First Name) Ferenc	2. Surname (La	ast Name)			3. Date 15-August-2019
4. Are you the corresponding author?	Yes ✓	′ No	Correspond Jutta M Ell	_	or's Name
<ol> <li>Manuscript Title</li> <li>Quantitative MRI Of Epiphyseal Carti</li> <li>Osteochondritis Dissecans</li> </ol>	lage Vascularit	ty Using Vess	elness Ima	ge Featur	res – New Insights Into Juvenile
6. Manuscript Identifying Number (if you known JBJSOA-D-18-00031	ow it)				
Section 2. The Work Under Co					
Did you or your institution <b>at any time</b> receivany aspect of the submitted work (including statistical analysis, etc.)?  Are there any relevant conflicts of intere lf yes, please fill out the appropriate info Excess rows can be removed by pressing	ve payment or so but not limited st? Yes rmation below	ervices from a to grants, data \textsquare No v. If you have	third party ( a monitoring	board, st	udy design, manuscript preparation,
Name of Institution/Company	Grant	-	Financial pport <sup>?</sup>	Other?	Comments
NIH/NIAMS R01 AR070020 – Novel MRI Methods for Osteochondritis Dissecans (OCD) / Osteochondrosis (OC)	<b>✓</b> [				I receive salary support from this grant.
NIH K01 OD021293 – Development and MRI characterization of a goat model of human osteochondrosis	<b>✓</b>				I receive salary support from this grant.
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Intellectual Property Patents & Copyrights
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Dr. Toth reports grants from NIH/NIAMS R01 AR070020 – Novel MRI Methods for Osteochondritis Dissecans (OCD) / Osteochondrosis (OC), grants from NIH K01 OD021293 – Development and MRI characterization of a goat model of human osteochondrosis, during the conduct of the study; .

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