Journal of Thoracic Oncology

Case Report: CD103+CD8+ lymphocytes characterize the immune infiltration in a case with pseudoprogression in SqNSCLC. --Manuscript Draft--

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Full Title:	Case Report: CD103+CD8+ lymphocytes characterize the immune infiltration in a case with pseudoprogression in SqNSCLC.
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Keywords:	lung neoplasms; Immunotherapy; pseudoprogression; PD-1 inhibitor; CD103; CD8; lymphocyte; Nivolumab; discordant response.
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Manuscript Region of Origin:	SPAIN

To

Keunchil Park, MD, PhD Associate Editor

Journal of Thoracic Oncology

Dear Professor Park,

We are grateful for the thoughtful comments from the reviewers. We have addressed all points and performed additional required work.

Please find bellow the point by point letter.

We hope you find our revised version acceptable for publication in Journal of Thoracic Oncology.

Yours sincerely,

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Reviewer Comments – Point-by-point response:

Reviewer #1: This is an interesting case report which is hypothesis-generating regarding the explanation of both, lymphocyte infiltration phenotype in ICI-responding tumours as well as pseudoprogression. It expands on previous studies by the group and corroborates its observations by an in vivo observation.

Reply to Reviewer #1:

Thank you for your comment.

Reviewer #2: The authors have submitted a case report of a patient with Stage IV sqNSCLC on PD, treated with Nivolumab with liver pseudo-progression. The liver biopsy unraveled release and expansion of CD103+ TRM as a new potential marker of response even though contributed to the paradox CT increase of the met size.

The case is reported clearly and so are the figures.

The MS is acceptable in the current form.

Reply to Reviewer #2:

Thank you for your comment.

Reviewer #3: Rocha P, et al. reported CD103+CD8+ lymphocytes infiltrated in a pseudoprogression lesion in a squamous NSCLC patient after PD-1 blockade. The finding is somewhat interesting. However, in general CD103 is expressed on activated T cell as well as tissue resident memory (TRM) T cells. So, it was not enough to prove the expansion of "TRM cells' after nivolumab treatments. TRM cells are found in peripheral tissues that require expression of specific chemo attractants and homing receptors for T-cell recruitment and retention. Authors need to characterize CD103+CD8+T cells more in detail based on its adhesion and migratory properties to distinguish them from activated T cells.

Reply to Reviewer #3:

-Point 1: 'However, in general CD103 is expressed on activated T cell as well as tissue resident memory (TRM) T cells. So, it was not enough to prove the expansion of TRM cells after nivolumab treatments.'

-Reply to Point 1:

We have answered to this comment below.

As CD103 is a canonical TRM marker on T cells we do not agree with the reviewer that examining TRM-ness or its absence in CD103 positive T cells is a fruitful undertaking. We agree that CD103+ T cells have features of effector (activated) cells and have reported this in our study in Nature Immunology (Ganesan et al, Nature Immunology). Indeed, this observation prompted us to test the expansion of CD103+ cells as presented in this paper. More recent data from patients with lung cancer (Clarke et al, in review) do not identify any CD103+ non-TRM CD8+ cells in lung cancer.

-Point 2: 'TRM cells are found in peripheral tissues that require expression of specific chemo attractants and homing receptors for T-cell recruitment and retention. Authors need to characterize CD103+CD8+T cells more in detail based on its adhesion and migratory properties to distinguish them from activated T cells.'

-Reply to Point 2:

Thank you for this comment.

In tissue other than cancer tissue, CD103 also defines the TRM population; It is unclear what extra characterization the reviewer wishes to see. CD103 binds to E-cadherin, which is ubiquitously expressed in cancer tissue - further study will not be informative. That TRM exist in other organs is correct but not helpful here as we are not examining possible toxicity. The homing question has already been answered by virtue of the examined T cells tests confirming T cells in the cancer tissue.

Reviewer #4: The authors investigated the immune infiltrate of lesions from pre/post nivolumab therapy samples in an NSCLC patient showing pseudoprogression. Compared to the pre-therapy, lung lesion, the post-therapy, liver lesion showed a marked increase in CD4+ and CD8+ T cells and of CD103+ CD8+ T cells, as documented by both immunohistochemistry and flow cytometry. The implication of this finding is that immunotherapy may contribute to expand this specific T cell subset.

Comments:

It would be relevant to know whether the T cells at tumour site in the on-treatment liver lesion show evidence of proliferation, compared to the pre-therapy lesions. This could be assessed by Ki-67 staining by either immunohistochemistry or flow cytometry. Also, by flow cytometry, it would be relevant to know whether the CD8+ CD103+ T cells in the on-treatment lesion express PD-1. This information, although in a single case, could be relevant to understand whether CD103+ CD8+ T cells may be evaluated as potential biomarkers of responsiveness to anti-PD-1.

Reply to Reviewer #4:

-Point 1: 'It would be relevant to know whether the T cells at tumour site in the ontreatment liver lesion show evidence of proliferation, compared to the pre-therapy lesions. This could be assessed by Ki-67 staining by either immunohistochemistry or flow cytometry.'

-Reply to Point 1:

To address this point, we have performed double immunostaining for Ki67 and CD3 in both samples (lung sample before anti-PD-1 treatment, and liver biopsy after five cycles of Nivolumab). We observed an increase of this marker in lymphocytes in the liver biopsy, which supports our findings.

Illustrative pictures have been added to figure 2 (FIGURE 2A 19 AND 2A 20)

We have also added the results in the manuscript (Highlighted):

Line 44: 'Double staining with Ki67 / CD3 showed a marked increase in the lymphocytes in the liver biopsy compared to pre-treatment lung specimen (Fig 2A19, 2A20).'

Line 65: 'as demonstrated by increase of Ki67 marker in lymphocytes.'

Line 128: Figure 2A legend, '19, 20 CD3 (membrane staining in red) – Ki67 (nucleus staining in brown) double immunostaining, (19) 2 lymphocytes/HPF, (20) 18 lymphocytes/HPF.

-Point 2: 'Also, by flow cytometry, it would be relevant to know whether the CD8+ CD103+ T cells in the on-treatment lesion express PD-1. This information, although in a single case, could be relevant to understand whether CD103+ CD8+ T cells may be evaluated as potential biomarkers of responsiveness to anti-PD-1.'

- Reply Point 2:

We agree with reviewer #4, but unfortunately no remaining fresh tissue is available and the output of lymphocytes in the analysed sample did not allow for the analysis of additional marker. We believe the immunohistochemical data partially overcomes this limitation.

1 Case Report JTO.

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- 3 **TITLE:** Case Report: CD103+CD8+ lymphocytes characterize the immune infiltration
- 4 in a case with pseudoprogression in SqNSCLC.
- 5 **SHORT TITLE:** CD103+CD8+ T cell expansion in response to nivolumab.

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- 7 **AUTHORS:** Pedro Rocha¹, Max Hardy-Werbin², Dolores Naranjo³, Álvaro Taus¹,
- 8 Maite Rodrigo³, Flavio Zuccarino⁴, René Roth⁵, Oliver Wood⁶, Christian H
- 9 Ottensmeier^{6*}, Edurne Arriola^{1,2*}.

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- 3. Servei d'Anatomía Patologica. Hospital del Mar, Barcelona, Spain.
- 4. Servei de Radiología. Hospital del Mar, Barcelona, Spain.
- 5. Biopharmaceutical New Technologies (BioNTech) Corporation, An der
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- CR UK and NIHR Experimental Cancer Medicine Centre Southampton,
 University of Southampton, Faculty of Medicine, Tremona Road, Southampton
 SO166YD, UK.
- 20 *These authors equally contributed to the work

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CASE:

- 23 A 65-year-old male patient, current smoker was diagnosed with stage IV squamous
- 24 cell lung cancer (multiple CNS lesions) (Fig 1A, B). He received whole-brain
- 25 radiotherapy followed by chemotherapy with Carboplatin (AUC 5) Vinorelbine
- 26 (25mg/m2). After three cycles, disease progression was confirmed, with an increase
- of the lung tumor and development of new liver lesions (Fig 1C, D). Nivolumab was
- then initiated. At radiologic evaluation, after five cycles of Nivolumab, a discordant
- 29 response was observed, with partial response in the CNS, stable lung disease but
- 30 significant increase of one liver lesion (Fig 1E, F). The marked discrepancy between
- 31 the clinical benefit and the radiological findings, prompted us to perform a liver biopsy.

- 32 The pathological findings revealed extensive areas of necrosis, no viable tumor cells
- and the presence of a lymphohistiocytic infiltrate.
- 34 Immune biomarkers were compared between the lung biopsy at diagnosis and the
- 35 liver biopsy after five cycles of Nivolumab by immunohistochemistry (IHC) (Fig 2A1,
- 36 2A2). All tumor cells (100%) expressed PD-L1 pretreatment and were necrotic in the
- 37 on-treatment biopsy (Fig 2A3, Fig 2A4). Lymphocyte characterization revealed
- increased numbers of CD4 (Fig 2A7, 2A8), and CD8 (Fig 2A9, 2A10) in the on-
- treatment biopsy, with a change in the ratio of CD4/CD8 (at diagnosis 1.25, and 0.875)
- 40 after treatment with ICI). CD103 (Fig 2A11, 2A12) positive cells were also increased
- 41 in the liver biopsy, and CD68 staining demonstrated a higher proportion of
- 42 macrophages in the liver biopsy (Fig 2A13, 2A14). PD-1 expression was observed in
- 43 macrophages and lymphocytes and was also enhanced in the on-treatment liver
- biopsy (Fig 2A17, 2A18). Double staining with Ki67 / CD3 showed a marked increase
- 45 in the lymphocytes in the liver biopsy compared to pre-treatment lung specimen (Fig.
- 46 2A19, 2A20).
- 47 In order to further characterize the lymphocyte populations observed in the on-
- 48 treatment liver biopsy by IHC, we performed FACS analysis. Of the live lymphocytes
- 49 (Fig 2BI), 55% were TCR+ (Fig 2BII) and within this gate 65.2% expressed CD8a,
- 50 29.8% CD4 (Fig 2BIII). Consistent with the IHC staining, the majority of CD8 T cells
- 51 (69.6%) co-expressed the tissue residency marker CD103 (Fig. 2BIV).

52 **DISCUSSION**:

- 53 New patterns of radiologic response have been described with immune checkpoints
- 54 inhibitors (ICI), such as pseudoprogression and mixed responses (1,2). Biopsies of
- the 'growing' lesion have demonstrated lymphocyte infiltration as a cause of this initial
- increase in size (3,4).
- 57 We have recently reported that CD103+ Tissue resident memory (TRM) CD8+ T cells
- are protective in early lung cancer (5). The pretreatment biopsy of our patient showed
- 59 the presence of CD8+CD103+ T cells. Characterization of immune population by IHC
- and FACS in the on-treatment sample demonstrated a substantial increase in
- 61 CD8+CD103+ T cells in the liver metastasis, compared to pretreatment density.

Our data show for the first time that PD-1 blockade might therefore not only enhance the activation and proliferation of immune competent T cells globally, but may also contribute to effective responses through release and expansion of CD103+ TRM cells as demonstrated by increase of Ki67 marker in lymphocytes. The influx or intratumoral expansion of protective immune cells presented clinically as tumor volume increase. Our data offer a morphological insight to understand clinical correlates of an antitumor response that can be released in lung cancer through checkpoint blockade.

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FIGURE LEGENDS:

Figure 1. CT scan at diagnosis (August 2016) (A and B), pre Nivolumab treatment (C and D) and after five cycles of Nivolumab (E and F). A and B images show a lung mass of 45 mm (A, arrow), localized in the upper left upper lobe. This lesion presents extensive contact with the pulmonary artery and compromises the distal airway. In the abdominal CT scan from the same date (B) no liver lesions were observed. The radiologic evaluation made in December 2016, revealed an increase in the size of the lung lesion (C) (45mm to 48mm) and greater obstruction of the distal airway. In the same study, abdominal CT scan revealed the appearance of a hepatic lesion (D) (yellow circle) of 20mm, accounting for progressive disease.

Subsequent CT scan after five cycles of Nivolumab, showed a decrease in the size of lung mass (E) of 48 mm to 45mm, and increase in size of the hepatic metastatic lesion (F) (yellow circle) from 20 to 33mm. RECIST 1.1 + 14.7%. (two target lesions). But an increase of 65% at the liver lesion.

17 (left column) corresponding to lung biopsy at diagnosis. 2, 4, 6, 8, 10, 12, 14, 16, 18 (right column) corresponding to liver biopsy after five cycles of nivolumab.

1 and 2 H&E staining, 1 - revealed a poorly differentiated squamous carcinoma, and 2.a dense lymphohisticcytic infiltrate surrounding a totally necrotic metastatic tumour.

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lymphocytes/HPF. 11, 12 CD103 staining, (11) 15 lymphocytes/HPF, (12) 100

Figure 2A. Histological assessment of lung and liver biopsy. 1, 3, 5, 7, 9, 11, 13, 15,

lymphocytes/HPF. 13, 14 CD68 staining (13) 30 lymphocytes/HPF, (14) 100 lymphocytes/HPF. 15, 16 CD56 marker (15) 10 lymphocytes/HPF, (16) 10 lymphocytes/HPF. 17, 18 PD-1 staining, with 10cells/HPF at lung biopsy and 20 cells/HPF at liver biopsy. 19, 20 CD3 (membrane staining in red) – Ki67 (nucleus staining in brown) double immunostaining, (19) 2 lymphocytes/HPF, (20) 18 lymphocytes/HPF. Magnification, x400.

Figure 2B. Representative flow cytometry plot and analysis of liver biopsy, performed during treatment with PD-1 blockade (Nivolumab). I) Selection of lymphocytes in the flow cytometry plot. II) Expression of pan-TCR (a marker that identified the T cell population). III) Flow cytometry showing expression of CD4 and CD8 of the pan-TCR population. IV) Expression of CD103 in the selected CD8 T cell population.

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https://www.nature.com/ni/journal/vaop/ncurrent/pdf/ni.3775.pdf

FIGURE LEGENDS:

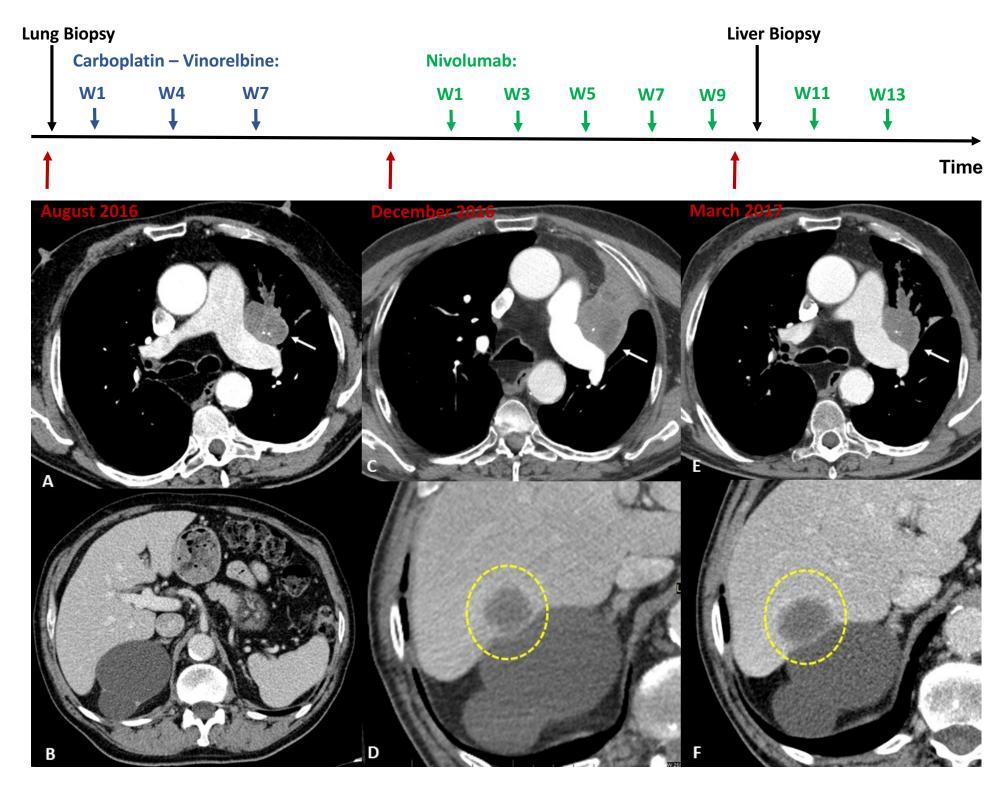
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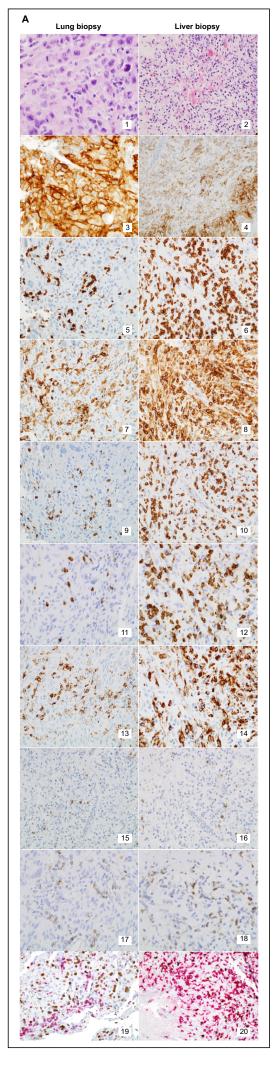
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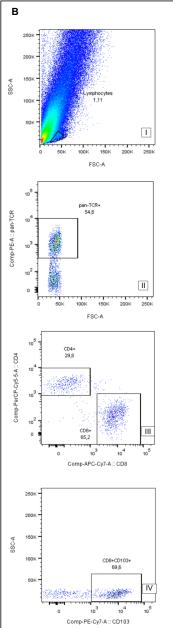
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This section asks for information about the work that you have submitted for publication. The time frame for this reporting is that of the work itself, from the initial conception and planning to the present. The requested information is about resources 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

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This section asks about your financial relationships with entities in the bio-medical arena that could be perceived to influence, or that give the appearance of potentially influencing, what you wrote in the submitted work. You should disclose interactions with ANY entity that could be considered broadly relevant to the work. For example, if your article is about testing an epidermal growth factor receptor (EGFR) antagonist in lung cancer, you should report all associations with entities pursuing diagnostic or therapeutic strategies in cancer in general, not just in the area of EGFR or lung cancer.

Report all sources of revenue paid (or promised to be paid) directly to you or your institution on your behalf over the 36 months prior to submission of the work. This should include all monies from sources with relevance to the submitted work, not just monies from the entity that sponsored the research. Please note that your interactions with the work's sponsor that are outside the submitted work should also be listed here. If there is any question, it is usually better to disclose a relationship than not to do so.

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

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earning royalties or not

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

patent

Rocha 1



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1. Given Name (First Name) Pedro	2. Surname (Last Name) Rocha	3. Date 06-March-2018		
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding Author's Name Edurne Arriola		
5. Manuscript Title Case Report: CD103+CD8+ lymphocyte	es characterize the immune	e infiltration in a case with pseudoprogression in SqNSCLC		
6. Manuscript Identifying Number (if you k	now it)			
Section 2. The Work Under C	onsideration for Public	cation		
	g but not limited to grants, da	a third party (government, commercial, private foundation, etc.) for ita monitoring board, study design, manuscript preparation,		
Section 3. Relevant financial	activities outside the s	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 present during the 36 months prior to publication . Are there any relevant conflicts of interest? Yes V				
Section 4. Intellectual Prope	rty Patents & Copyrig	ghts		
Do you have any patents, whether plan	ned, pending or issued, br	oadly relevant to the work? Yes No		

Rocha 2



Section 5.	
Section 5.	Relationships not covered above
	elationships or activities that readers could perceive to have influenced, or that give the appearance of encing, what you wrote in the submitted work?
Yes, the follo	wing relationships/conditions/circumstances are present (explain below):
✓ No other rela	tionships/conditions/circumstances that present a potential conflict of interest
	anuscript acceptance, journals will ask authors to confirm and, if necessary, update their disclosure statements rnals may ask authors to disclose further information about reported relationships.
Section 6.	Disclosure Statement
Based on the abo	ove disclosures, this form will automatically generate a disclosure statement, which will appear in the box
Dr. Rocha has no	othing to disclose.

Evaluation and Feedback

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Rocha 3



Instructions

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

patent

Taus 1



Section 1. Identifying Inform	nation			
1. Given Name (First Name) Álvaro	2. Surname (Last Name) Taus		3. Date 06-March-2018	
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding Autho	or's Name	
5. Manuscript Title Case Report: CD103+CD8+ lymphocyte	s characterize the immune	e infiltration in a case	with pseudoprogression in SqN!	SCLC.
6. Manuscript Identifying Number (if you kr	now it)	_		
Section 2. The Work Under Co	onsideration for Public	cation		
Did you or your institution at any time rece any aspect of the submitted work (including statistical analysis, etc.)? Are there any relevant conflicts of intere	but not limited to grants, da			
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 interesting If yes, please fill out the appropriate info	ibed in the instructions. Us port relationships that wer est?	se one line for each en	itity; add as many lines as you ne	eed by
Name of Entity	Grant	n-Financial Other?	Comments	
Merck Sharp & Dohme				
Bristol-Myers Squibb				
Section 4. Intellectual Proper	ty Patents & Copyric	ghts		
Do you have any patents, whether plan	ned, pending or issued, br	oadly relevant to the	work? Yes 🗸 No	

Taus 2



Coetion F	
Section 5.	Relationships not covered above
	elationships or activities that readers could perceive to have influenced, or that give the appearance of encing, what you wrote in the submitted work?
Yes, the follow	wing relationships/conditions/circumstances are present (explain below):
✓ No other rela	tionships/conditions/circumstances that present a potential conflict of interest
	anuscript acceptance, journals will ask authors to confirm and, if necessary, update their disclosure statements rnals may ask authors to disclose further information about reported relationships.
Section 6.	Disclosure Statement
Based on the abo	ove disclosures, this form will automatically generate a disclosure statement, which will appear in the box
Dr. Taus reports work; .	personal fees from Merck Sharp & Dohme, personal fees from Bristol-Myers Squibb, outside the submitted

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Taus 3



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

patent

Ottensmeier 1



Section 1.	Identifying Information						
1. Given Name (Fi Christian	irst Name)	2. Surnam Ottensme	e (Last Nam eier	e)		3. Date 06-March-2018	
4. Are you the cor	rresponding author?	Yes	√ No	Correspond	ding Author	's Name	
			ze the imn	nune infiltration	in a case v	vith pseudoprogression in Sc	ĮNSCLC
Section 2.	The Work Under C	onsiderati	on for Pu	ıblication			
any aspect of the s statistical analysis,	submitted work (includin	g but not limit	ted to grant			nt, commercial, private foundati dy design, manuscript preparat	
Section 3.	Relevant financia	l activities	outside t	he submitted	work.		
of compensation clicking the "Add Are there any rel If yes, please fill	n) with entities as desc	ribed in the i eport relation rest?	nstruction nships that es	s. Use one line fo	or each end uring the	al relationships (regardless o iity; add as many lines as you 36 months prior to publica	ı need by
Name of Entity		Grant !	Fees?	Support?	Other •	Comments	
Bristol-Myers Squibb)	√	√				
Merck Sharp & Dohm	ne	✓	\checkmark				
Immatics			\checkmark				
Verastem		✓					
BioNTech AG		✓					
Delcath Systems		✓					
Serametrix		✓					
Inovio Pharmaceutic	als	√					

Ottensmeier 2



Section 4. Intellectual Property Patents & Copyrights
Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes Vo
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.
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Based on the above disclosures, this form will automatically generate a disclosure statement, which will appear in the box below.
Dr. Ottensmeier reports grants and personal fees from Bristol-Myers Squibb, grants and personal fees from Merck Sharp & Dohme, personal fees from Immatics, grants from Verastem, grants from BioNTech AG, grants from Delcath Systems, grants from Serametrix, grants from Inovio Pharmaceuticals, outside the submitted work; .

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patent

1 Naranjo



Section 1. Identifying Inform	ation				
Given Name (First Name) Dolores	2. Surname (Last Name) 3. Date Naranjo 06-March-2018				
4. Are you the corresponding author?	Yes ✓ No Corresponding Author's Name				
5. Manuscript Title Case Report: CD103+CD8+ lymphocyte	s characterize the immune	e infiltration in a case with pseudoprogression in SqNSCLC.			
6. Manuscript Identifying Number (if you kn	now it)				
Section 2. The Work Under Co	onsideration for Public	ration			
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 No					
Section 3. Relevant financial	activities outside the s	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 present during the 36 months prior to publication . Are there any relevant conflicts of interest? Yes Vo					
Section 4. Intellectual Proper	ty Patents & Copyric	ghts			
Do you have any patents, whether plant	ned, pending or issued, br	roadly relevant to the work? Yes V No			

Naranjo 2



Section 5.	B. Indianal Control of the Control o
	Relationships not covered above
	elationships or activities that readers could perceive to have influenced, or that give the appearance of encing, what you wrote in the submitted work?
Yes, the follow	wing relationships/conditions/circumstances are present (explain below):
✓ No other rela	tionships/conditions/circumstances that present a potential conflict of interest
	anuscript acceptance, journals will ask authors to confirm and, if necessary, update their disclosure statements. rnals may ask authors to disclose further information about reported relationships.
Section 6	
Section 6.	Disclosure Statement
Based on the abo	ove disclosures, this form will automatically generate a disclosure statement, which will appear in the box
Dr. Naranjo has r	nothing to disclose.

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Naranjo 3



Instructions

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patent

Arriola 1



Section 1.	Identifying Inform	nation			
1. Given Name (Fii Edurne		2. Surname (Last Nan Arriola	ne)		3. Date 06-March-2018
4. Are you the cor	responding author?	✓ Yes No			
5. Manuscript Title Case Report: CD		s characterize the imr	nune infiltration	in a case with	pseudoprogression in SqNSCLC
6. Manuscript Ider	ntifying Number (if you kn	now it)			
Continu 2					
Section 2.	The Work Under Co	onsideration for P	ıblication		
any aspect of the s statistical analysis,	ubmitted work (including	but not limited to gran			ommercial, private foundation, etc.) for lesign, manuscript preparation,
Section 3.	Relevant financial	activities outside t	he submitted	work.	
of compensation clicking the "Add Are there any rele) with entities as descri	bed in the instruction port relationships that est? Yes I	s. Use one line fo	or each entity;	elationships (regardless of amount add as many lines as you need by months prior to publication.
Name of Entity		Grant? Personal Fees?	Non-Financial Support?	Other? Co	mments
Merck Sharp & Dohm	ne				
Bristol-Myers Squibb					
Roche		✓			
Section 4.	Intellectual Proper			ant to the work	v2 □Vos □ □No
Do you have any	patents, whether plan	nea, penaing or issue	u, broadly releva	ini to the work	Yes ✓ No

Arriola 2



Section 5.	
Section 5.	Relationships not covered above
	elationships or activities that readers could perceive to have influenced, or that give the appearance of ncing, what you wrote in the submitted work?
Yes, the follow	wing relationships/conditions/circumstances are present (explain below):
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Arriola 3



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patent

Zuccarino 1



Section 1. Identifying Inform	nation	
1. Given Name (First Name) Flavio	Surname (Last Name) Zuccarino	3. Date 06-March-2018
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding Author's Name Edurne Arriola
5. Manuscript Title Case Report: CD103+CD8+ lymphocyte	es characterize the immun	e infiltration in a case with pseudoprogression in SqNSCLC.
6. Manuscript Identifying Number (if you k	now it)	
		_
Section 2. The Work Under C	onsideration for Publi	cation
any aspect of the submitted work (including statistical analysis, etc.)? Are there any relevant conflicts of inter	g but not limited to grants, da	a third party (government, commercial, private foundation, etc.) for ata monitoring board, study design, manuscript preparation,
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Do you have any patents, whether plan	ned, pending or issued, bı	roadly relevant to the work? Yes V No

Zuccarino 2



Section 5.		
Section 5.	Relationships not covered above	
	elationships or activities that readers could perceive to have influenced, or that give the appearance of encing, what you wrote in the submitted work?	
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Dr. Zuccarino ha	s nothing to disclose.	

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4. Intellectual Property.

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

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

Rodrigo 1



Section 1. Identifying Inform	nation	
1. Given Name (First Name) Maite	2. Surname (Last Name) Rodrigo	3. Date 06-March-2018
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding Author's Name Edurne Arriola
5. Manuscript Title Case Report: CD103+CD8+ lymphocyte	es characterize the immune	e infiltration in a case with pseudoprogression in SqNSCLC.
6. Manuscript Identifying Number (if you kr	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	g 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.
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 . Are there any relevant conflicts of interest? Yes Vo		
Section 4. Intellectual Proper	rty Patents & Copyric	ghts
Do you have any patents, whether plan	ned, pending or issued, br	roadly relevant to the work? Yes V No

Rodrigo 2



Section 5. Polotionships not solvered 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?
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Rodrigo 3



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Hardy-Werbin 1



Section 1. Identifying Inform	mation	
Given Name (First Name) Max	2. Surname (Last Name) Hardy-Werbin	3. Date 06-March-2018
4. Are you the corresponding author?	Yes 🗸 No	Corresponding Author's Name
5. Manuscript TitleCase Report: CD103+CD8+ lymphocyt6. Manuscript Identifying Number (if you leave)		e infiltration in a case with pseudoprogression in SqNSCLC.
o. Manuscript identifying Number (ii your	anow ity	_
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	g 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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Section 4. Intellectual Prope	erty Patents & Copyrig	yhts
Do you have any patents, whether pla	nned, pending or issued, br	oadly relevant to the work? Yes V No

Hardy-Werbin 2



Section 5. Polotionships not solvered above
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Hardy-Werbin 3



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Wood 1



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Given Name (First Name) Oliver	2. Surname (Last Name) Wood	3. Date 06-March-2018
4. Are you the corresponding author?	Yes ✓ No	Corresponding Author's Name Edurne Arriola
5. Manuscript Title Case Report: CD103+CD8+ lymphocy	tes characterize the immune	e infiltration in a case with pseudoprogression in SqNSCLC.
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Wood 2



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Wood 3



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Roth 1



Section 1. Identifying Inform	nation	
1. Given Name (First Name) René	2. Surname (Last Name) Roth	3. Date 06-March-2018
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding Author's Name Edurne Arriola
5. Manuscript Title Case Report: CD103+CD8+ lymphocyt	es characterize the immune	e infiltration in a case with pseudoprogression in SqNSCLC.
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Roth 2



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Roth 3