

Discloser Identifier: 1007991

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

1. **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?**

No.

2. **What is the manuscript title?**

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. **Are you the corresponding author?**

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser Identifier: 338296

Disclosure Purpose: 222-13948

Summary of Interests

Company or Organization

Entity	Type	Interest Held By
Alkermes, Inc.	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> contract research <i>Additional Information:</i>		<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research
Avidia	Consultant	Self
<i>Category:</i> Consultant <i>Description:</i> <i>Additional Information:</i>		
BARDA	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> contract research <i>Additional Information:</i>		<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research
Bill and Melinda Gates Foundation	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> academic research <i>Additional Information:</i>		<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research
Celsion	Consultant	Self
<i>Category:</i> Consultant <i>Description:</i> consultant <i>Additional Information:</i>		
CureVac	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> contract research <i>Additional Information:</i>		<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research
DARPA	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> academic research <i>Additional Information:</i>		<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research
Gilead Sciences	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> contract research <i>Additional Information:</i>		<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research

Entity	Type	Interest Held By
Henry Jackson Foundation	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> academic research <i>Additional Information:</i>		
<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research		
Intima Biosciences	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> contract research <i>Additional Information:</i>		
<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research		
Janssen Research and Development	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> contract research <i>Additional Information:</i>		
<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research		
Laronde	Consultant	Self
<i>Category:</i> Consultant <i>Description:</i> <i>Additional Information:</i>		
Legend Biotech	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> contract research <i>Additional Information:</i>		
<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research		
Massachusetts Consortium on Pathogen Readiness (MassCPR)	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> academic research <i>Additional Information:</i>		
<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research		
Meissa	Consultant	Self
<i>Category:</i> Consultant <i>Description:</i> <i>Additional Information:</i>		
MRC	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> academic research <i>Additional Information:</i>		
<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research		
Musk Foundation	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> academic research <i>Additional Information:</i>		
<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research		
NIH	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> academic research <i>Additional Information:</i>		
<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research		
Pfizer	Consultant	Self

Entity	Type	Interest Held By
<i>Category:</i> Consultant <i>Description:</i> consultant <i>Additional Information:</i>		
Pharm-Olam	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> <i>Additional Information:</i>		
<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research		
Ragon Institute	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> academic research <i>Additional Information:</i>		
<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research		
Regeneron Pharmaceuticals	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> manuscript support <i>Additional Information:</i>		
<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Other - manuscript support		
SANOFI PASTEUR INC.	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> contract research <i>Additional Information:</i>		
<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research		
SQZ Biotech	Consultant	Self
<i>Category:</i> Consultant <i>Description:</i> consultant <i>Additional Information:</i>		
SterneKessler	Expert Witness	Self
<i>Category:</i> Expert Witness <i>Description:</i> Client: Takeda <i>Additional Information:</i>		
Vector Sciences	Stock	Self
<i>Additional Information:</i>		
Zentaris	Grant / Contract	Self
<i>Recipient Name:</i> Dan Barouch <i>Grant / Contract Description:</i> contract research <i>Additional Information:</i>		
<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research		

Intellectual Property

Type	Is Licensed	Interest Held By
Patent - COMPOSITIONS AND METHODS FOR TREATING CORONAVIRUS	-	Self

Type	Is Licensed	Interest Held By
<p><i>Description:</i> COMPOSITIONS AND METHODS FOR TREATING CORONAVIRUS INFECTION <i>Patent Status:</i> Provisional <i>Filing Jurisdiction:</i> USA <i>Licensees:</i></p>		
<p><i>Patent Number:</i> 3,101,131 <i>Patent Holder:</i> Current Institution</p>		
Licensee	Title	Date
Janssen Research and Development		
<i>Additional Information:</i>		
Patent - COMPOSITIONS AND METHODS FOR TREATING CORONAVIRUS	-	Self
<p><i>Description:</i> COMPOSITIONS AND METHODS FOR TREATING CORONAVIRUS INFECTION <i>Patent Status:</i> Provisional <i>Filing Jurisdiction:</i> USA <i>Licensees:</i></p>		
<p><i>Patent Number:</i> 63/135,182 <i>Patent Holder:</i> Current Institution</p>		
Licensee	Title	Date
Janssen Research and Development		
<i>Additional Information:</i>		
Patent - COMPOSITIONS AND METHODS FOR TREATING CORONAVIRUS	-	Self
<p><i>Description:</i> COMPOSITIONS AND METHODS FOR TREATING CORONAVIRUS INFECTION <i>Patent Status:</i> Provisional <i>Filing Jurisdiction:</i> USA <i>Licensees:</i></p>		
<p><i>Patent Number:</i> 63/133,969 <i>Patent Holder:</i> Current Institution</p>		
Licensee	Title	Date
Janssen Research and Development		
<i>Additional Information:</i>		
Patent - COMPOSITIONS AND METHODS FOR TREATING CORONAVIRUS	-	Self
<p><i>Description:</i> COMPOSITIONS AND METHODS FOR TREATING CORONAVIRUS INFECTION <i>Patent Status:</i> Provisional <i>Filing Jurisdiction:</i> USA <i>Licensees:</i></p>		
<p><i>Patent Number:</i> 63/121,482 <i>Patent Holder:</i> Current Institution</p>		
Licensee	Title	Date
Janssen Research and Development		
<i>Additional Information:</i>		

Additional Questions

1. 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?

No.

2. What is the manuscript title?

3. Are you the corresponding author?

Yes.

a. Please list the other authors' names here.

Ai-ris Y. Collier, M.D., Jessica Miller, B.S., Nicole P. Hachmann, B.S., Katherine McMahan, M.S., Jinyan Liu, Ph.D., Esther Apraku Bondzie, M.S.N., Lydia Gallup, R.N., Marjorie Rowe, B.S., Eleanor Schonberg, B.A., Siline Thai, B.S., Julia Barrett, B.S., Erica N. Borducchi, Ph.D., Emily Bouffard, B.S., Catherine Jacob-Dolan, B.S., Camille R. Mazurek, M.S., Audrey Mutoni, B.A., Olivia Powers, B.S., Michaela Sciacca, B.S., Nehalee Surve, M.S., Haley VanWyk, B.S., Cindy Wu, B.S., and Dan H. Barouch, M.D., Ph.D.*

Certification

I certify that the information provided in this disclosure is complete and accurate.

Julia Barrett

Discloser Identifier: 1007993

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

1. **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?**

No.

2. **What is the manuscript title?**

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. **Are you the corresponding author?**

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Erica Borducchi

Discloser Identifier: 805264

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

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No.

2. **What is the manuscript title?**

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. **Are you the corresponding author?**

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser Identifier: 1100726

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

1. **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?**

No.

2. **What is the manuscript title?**

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. **Are you the corresponding author?**

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Ai-ris Collier

Discloser Identifier: 908512

Disclosure Purpose: 222-13948

Summary of Interests

Company or Organization

Entity	Type	Interest Held By
National Institute of Allergy and Infectious Diseases	Grant / Contract	Self
<i>Recipient Name:</i> Ai-ris Yonekura Collier, MD <i>Grant / Contract Description:</i> R21AI169309 <i>Additional Information:</i>		<i>Recipient Type:</i> Institution <i>Grant / Contract Purpose:</i> Research

Additional Questions

1. 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?

No.

2. What is the manuscript title?

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser Identifier: 1100723

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

1. 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?

No.

2. What is the manuscript title?

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Nicole Hachmann

Discloser Identifier: 1061019

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

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No.

2. What is the manuscript title?

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Catherine Jacob-Dolan

Discloser Identifier: 1007999

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

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No.

2. What is the manuscript title?

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser Identifier: 955367

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

1. 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?

No.

2. What is the manuscript title?

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser Identifier: 1100727

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

1. 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?

No.

2. What is the manuscript title?

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Katherine McMahan

Discloser Identifier: 1007987

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

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No.

2. What is the manuscript title?

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Jessica Miller

Discloser Identifier: 1061020

Disclosure Purpose: 222-13948

Summary of Interests

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Additional Questions

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No.

2. **What is the manuscript title?**

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. **Are you the corresponding author?**

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Audrey Mutoni

Discloser Identifier: 1100728

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

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No.

2. What is the manuscript title?

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser Identifier: 1046560

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

1. 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?

No.

2. What is the manuscript title?

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Marjorie Rowe

Discloser Identifier: 1046555

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

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No.

2. **What is the manuscript title?**

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. **Are you the corresponding author?**

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser Identifier: 1100724

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

1. **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?**

No.

2. **What is the manuscript title?**

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. **Are you the corresponding author?**

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Michaela Sciacca

Discloser Identifier: 1061022

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

1. 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?

No.

2. What is the manuscript title?

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Nehalee Surve

Discloser Identifier: 1061023

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

1. 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?

No.

2. What is the manuscript title?

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser Identifier: 1100725

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

1. 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?

No.

2. What is the manuscript title?

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. Are you the corresponding author?

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser Identifier: 1046558

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

1. **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?**

No.

2. **What is the manuscript title?**

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. **Are you the corresponding author?**

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.

Discloser Identifier: 1056075

Disclosure Purpose: 222-13948

Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

1. **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?**

No.

2. **What is the manuscript title?**

Immunogenicity of the BA.5 Bivalent mRNA Vaccine Boosters

3. **Are you the corresponding author?**

No.

Certification

I certify that the information provided in this disclosure is complete and accurate.