

# How nutritious is that workflow API?

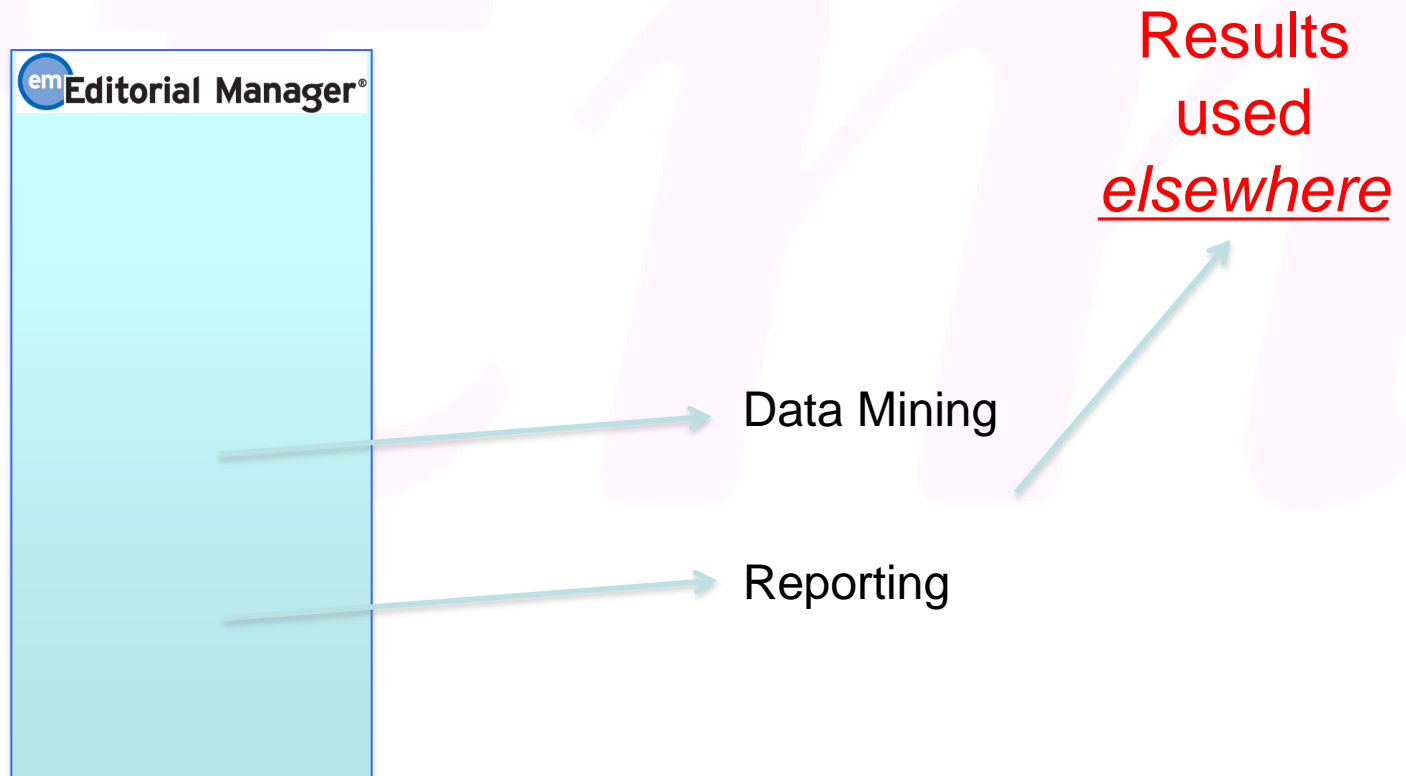
**Richard Wynne**  
VP Sales and Marketing  
Aries Systems Corporation

Are APIs a miracle food that will satiate our appetite for new functionality?

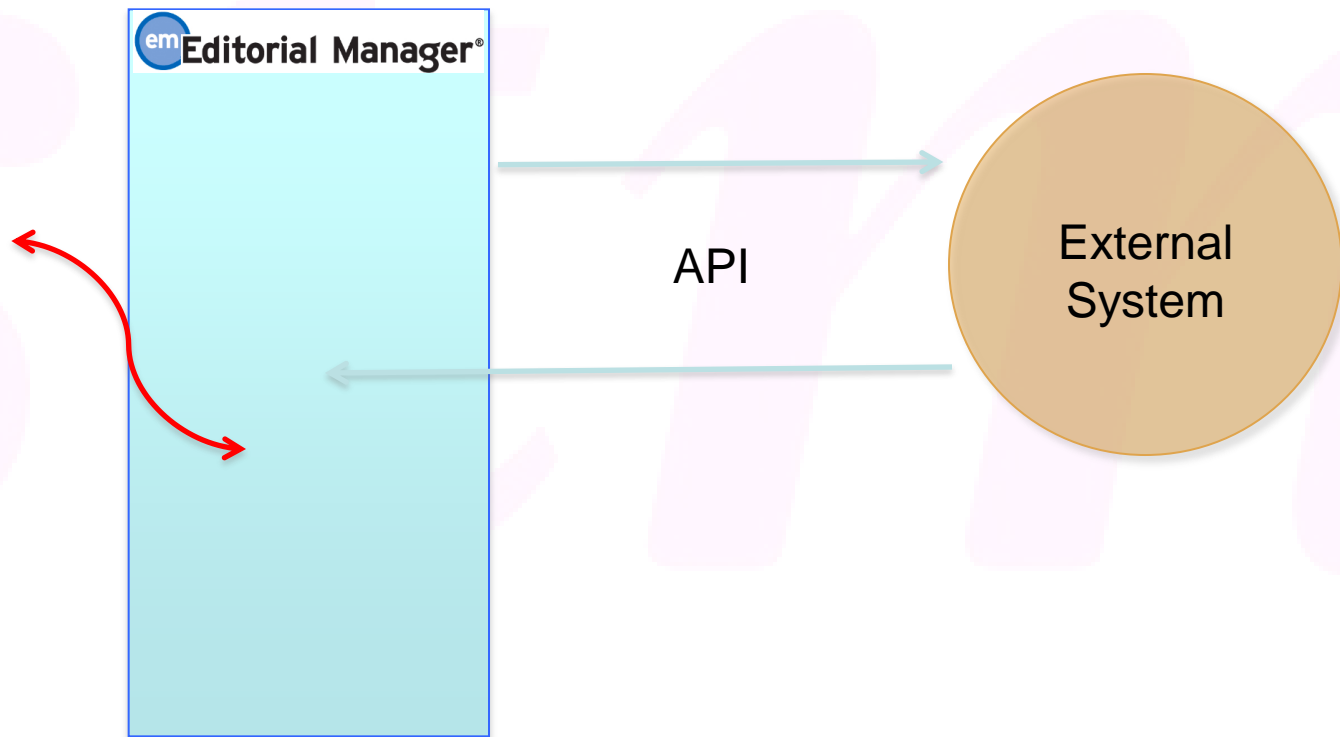
Yes...No... Maybe ..... we really all know there are no miracles....

# “Simple” APIs

“Read-only” APIs have no impact on workflow



# Bi-directional APIs in workflow systems



# Use Case 1: ORCID

**em Editorial Manager™** Not logged in.

HOME • LOGIN • HELP • REGISTER • UPDATE MY INFORMATION • JOURNAL OVERVIEW  
MAIN MENU • CONTACT US • SUBMIT A MANUSCRIPT • INSTRUCTIONS FOR AUTHORS

**Please Enter the Following** [Insert Special Character](#)

**Pre-registration Page**

To register to use the Editorial Manager system, please enter the requested information. Upon successful registration, you will be sent an e-mail with instructions to verify your registration.

First Name\*

Last Name\*

E-mail Address\*

ORCID  [Fetch/Register](#)  
(e.g.: 1234-1234-1234-123X)

WARNING - If you think you already have an existing registration of any type (Author, Reviewer, or Editor) in this system, please DO NOT register again. This will cause delays or prevent the processing of any review or manuscript you submit. If you are

**ORCID**  
Connecting Research and Researchers

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**Editorial Manager** Editorial Manager  
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This application will not be able to see your ORCID password, or other private info in your ORCID Record

[Deny](#) [Authorize](#)

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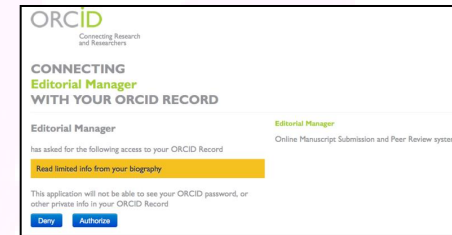
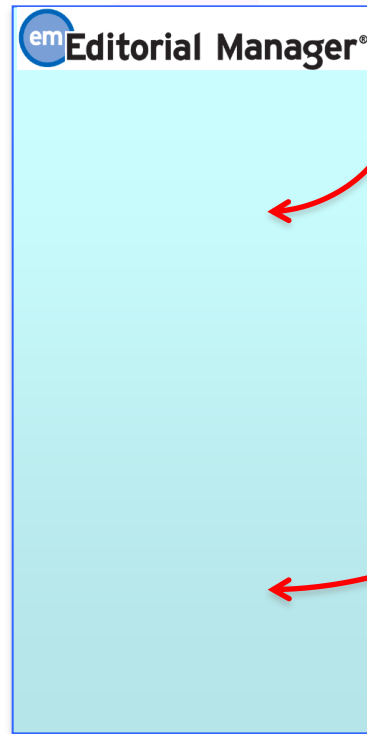
First Name\*

Last Name\*

E-mail Address\*

ORCID  [Delete](#)

# Use Case 1: ORCID




# Use Case 1: ORCID

Please Enter the Following [Insert Special Character](#)

Username:

Password:

Choose Journal: JXYZ - Journal of X, Y and Z

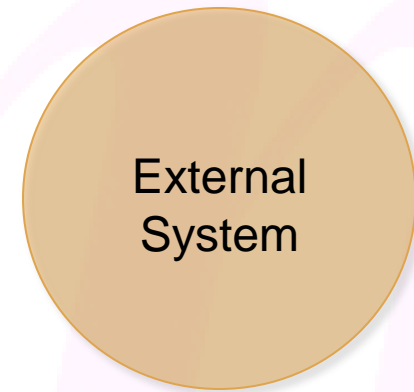
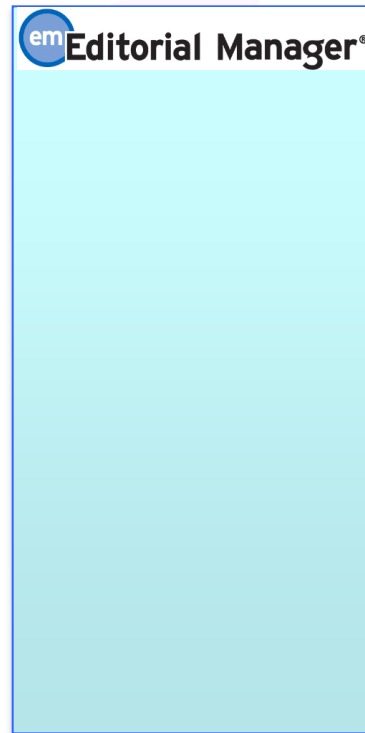
Or Login via: 



Derived workflow examples:

- Single Sign On (SSO)
- Data portability (e.g. reviewer form portability)
- APC processing and business models
- Data integrity

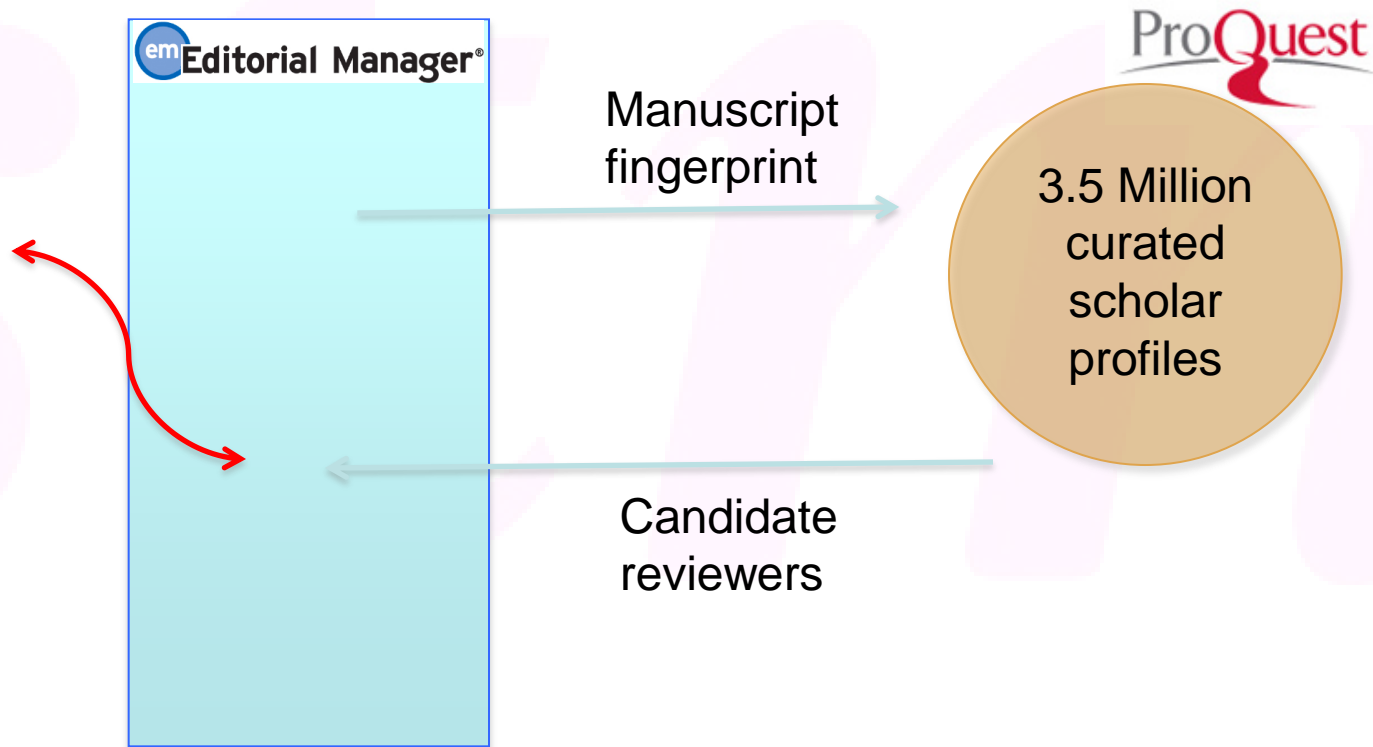
# Use Case 2: Reviewer Discovery



Manual labor: search,  
web browse, cut and  
paste



# Use Case 2: Reviewer Discovery



# Use Case 2: Reviewer Discovery



Data Quality

Without reliable current contact information (especially email address) API is less valuable

Mozilla Firefox

testweb.editorialmanager.com/pone101a/DothNetPopUps/ReviewerDiscoveryDetail.aspx?pivotGuid=417EDE70COA8000601DD0268CEEE43A&reviewerName=E.+Antonio+Chiocca

## Reviewer Discovery from ProQuest Community of Scholars

### E. Antonio Chiocca

Close

**Profile**

Past Affiliations: Dana-Farber/Harvard Cancer Center  
MGH Brain Tumor Center  
Department of Neurosurgery  
Department of Neurosurgery

Qualifications: MD, University of Texas  
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PhD, University of Texas

Honors and Awards: PHARMACOLOGIC ENHANCEMENT OF VIRAL ONCOLYSIS, NIH, PHARMACOLOGIC ENHANCEMENT OF VIRAL ONCOLYSIS, NIH, PHARMACOLOGIC ENHANCEMENT OF VIRAL ONCOLYSIS, NIH

Memberships: Grants: Method of selectively destroying neoplastic cells, unknown

Languages:

Personal Keywords: Neuro Neuro Biome Oncol

Expertise: Resea

Patents & Grants: Patents: Interd Interd HSV A HSV A HSV A HSV A INTER INTER PHAR OPTIN PHAR

**Summarized Publications**

Total Articles	210
Total Book Chapters	0
Total Conference Papers	0
Total Other	0

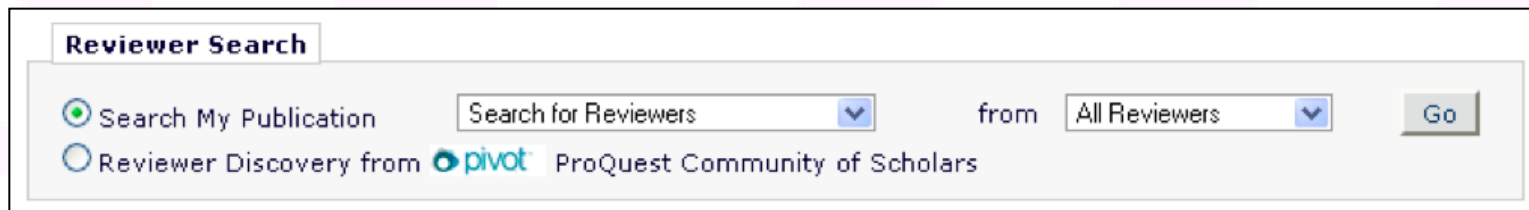
**Most Recent Publications**

Publication Date	Type	Name	Volume	Issue	External Link	Title	Abstract
2012/Apr	ARTICLE	Journal of virology	86	8	PubMed	The histone deacetylase inhibitor valproic acid lessens NK cell action against oncolytic virus-infected glioblastoma cells by inhibition of STAT5/T-BET signaling and generation of gamma interferon.	Tumor virotherapy has been and continues to be used in clinical trials. One barrier to effective viral oncolysis, consisting of the interferon (IFN) response induced by viral infection, is inhibited (more...)
2012/Feb	ARTICLE	Nature cell biology	14	2	PubMed CrossRef	Reprogramming of the tumour microenvironment by stromal PTEN-regulated miR-320.	PTEN (Phosphatase and tensin homolog deleted on chromosome 10) expression in stromal fibroblasts suppresses epithelial mammary tumours, but the underlying molecular mechanisms remain unknown. Using (more...)
2012	ARTICLE	Advances in virology	2012		PubMed	Deciphering the Multifaceted Relationship between Oncolytic Viruses and Natural Killer Cells.	Despite active research in virotherapy, this apparently safe modality has not achieved widespread success. The immune response to viral infection appears to be an essential factor that determines (more...)
2012/Feb	ARTICLE	Molecular therapy : the journal	20	2	PubMed	Antitumor efficacy of	Here, we describe the

# Use Case 2: Reviewer Discovery


Triggering the API interaction:

The workflow interface has to allow the “right” users to trigger the API at the “right” point in the workflow.



**Reviewer Search**

Search My Publication    Search for Reviewers    from    All Reviewers   

Reviewer Discovery from  ProQuest Community of Scholars

# Use Case 2: Reviewer Discovery

Integrating the API results with existing data:

The workflow interface has to avoid creating unnecessary duplicate records or otherwise damaging data integrity.

# Use Case 2: Reviewer Discovery

Integrating the API results with functionality:

Inviting the candidate reviewer, tracking the invitation, sending reminders etc.

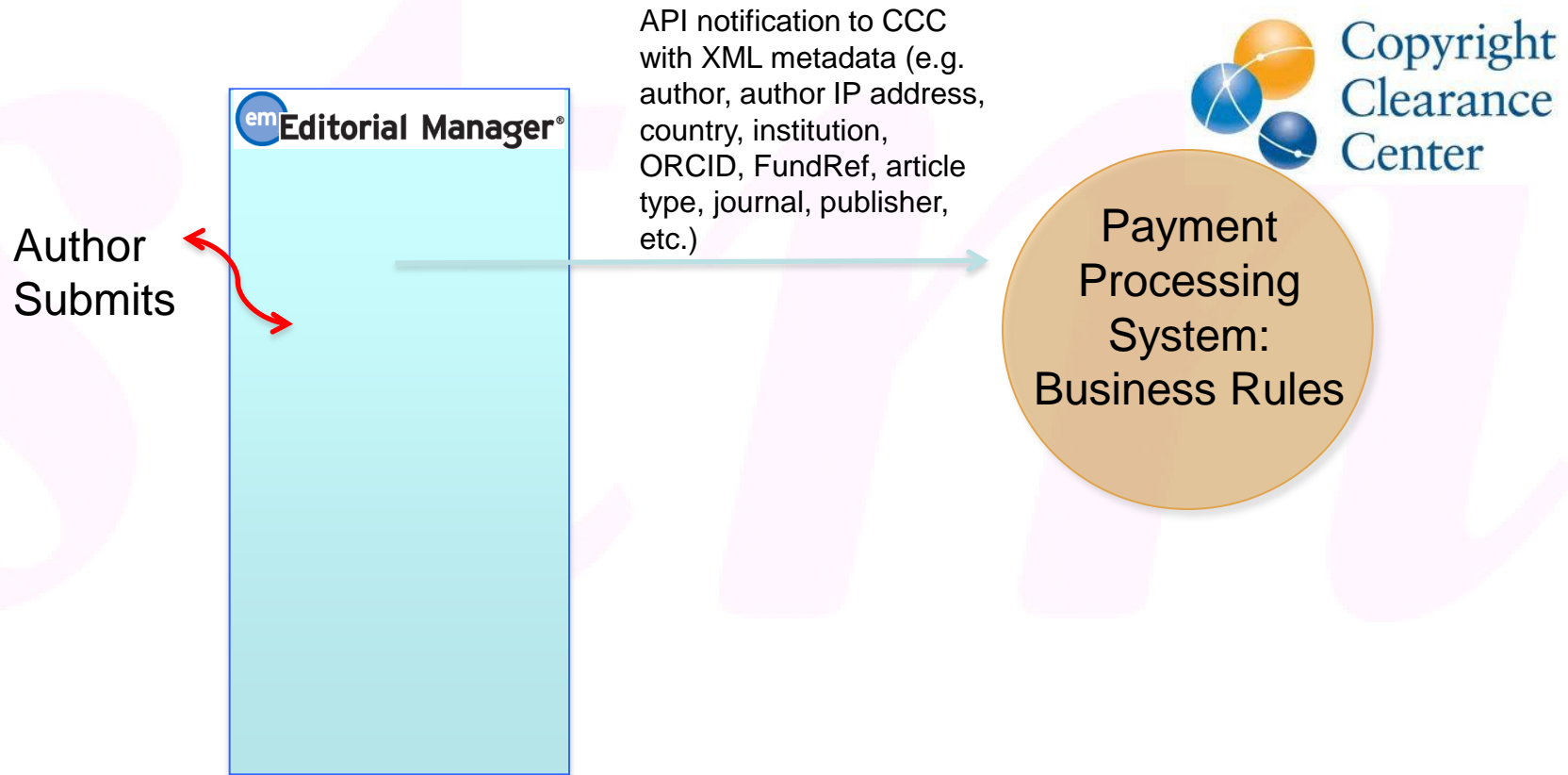
Select As		Reviewer Name	Board Member	Classifications	Reviewer Statistics (Agreed Invitations)
Inv.	Alt.				
<input type="checkbox"/>	<input type="checkbox"/>	<b>Information from Reviewer Discovery:</b> John Curran English Department Helen Way Klingler College of Arts and Sciences Marquette University  <a href="mailto:john.curran@mu.edu">john.curran@mu.edu</a>	No	<b>1 Reviewer Discovery Keyword(s) Found</b> English	<a href="#">View Researcher Profile and Publications</a>
<input type="checkbox"/>	<input type="checkbox"/>	<b>Information from Reviewer Discovery:</b> John Su English Department Helen Way Klingler College of Arts and Sciences Marquette University  <a href="mailto:john.su@mu.edu">john.su@mu.edu</a>	No	<b>1 Reviewer Discovery Keyword(s) Found</b> English	<a href="#">View Researcher Profile and Publications</a>

# Use Case 2: Reviewer Discovery

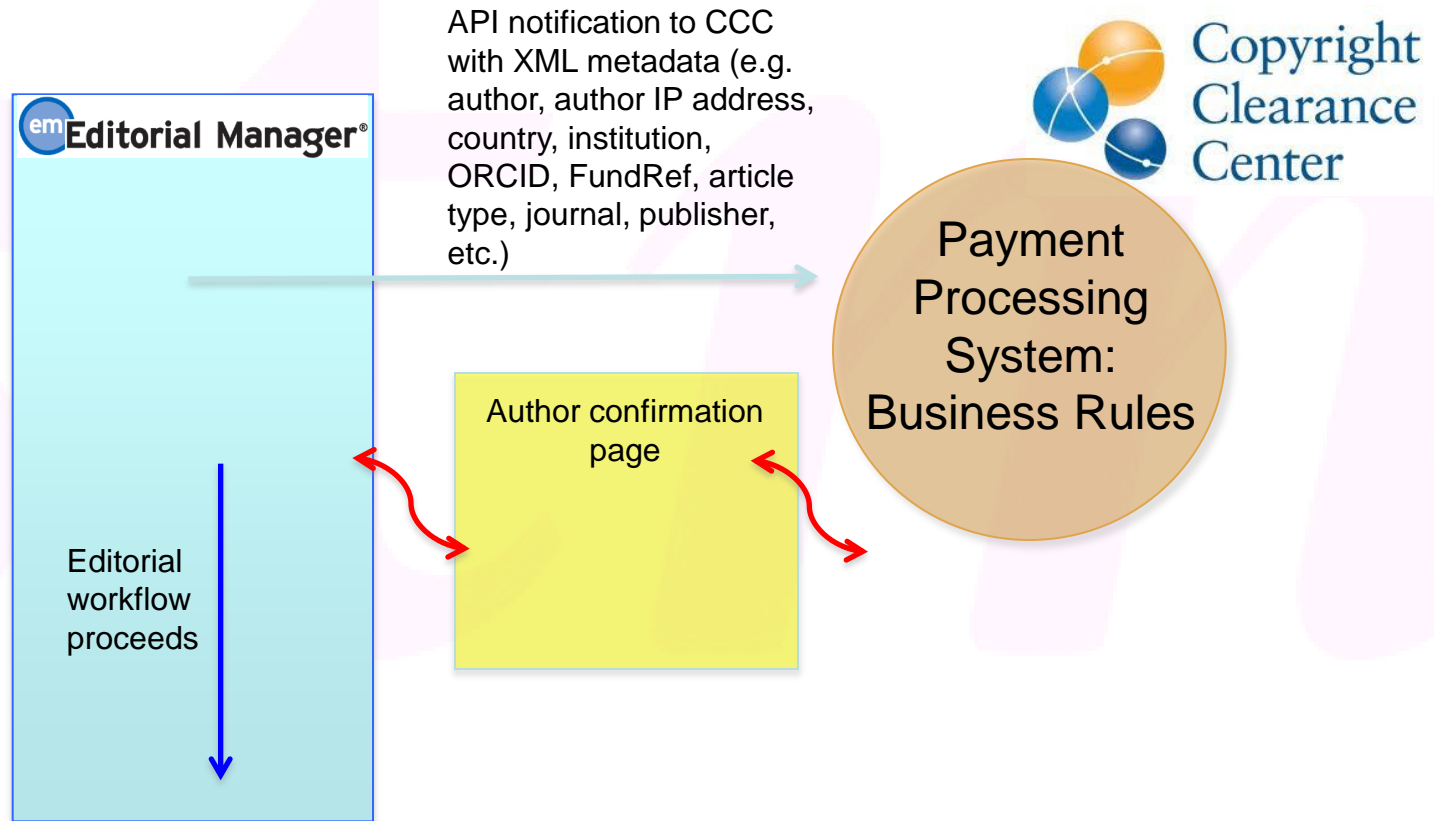
For the Reviewer Discovery API to be really useful it had to:

- Access contextually appropriate data
- Generate appropriate results
- Be available to the “right” users at the “right” point in the workflow
- “Play nice” with existing data
- Integrate with workflow

# Use Case 3: APC Processing

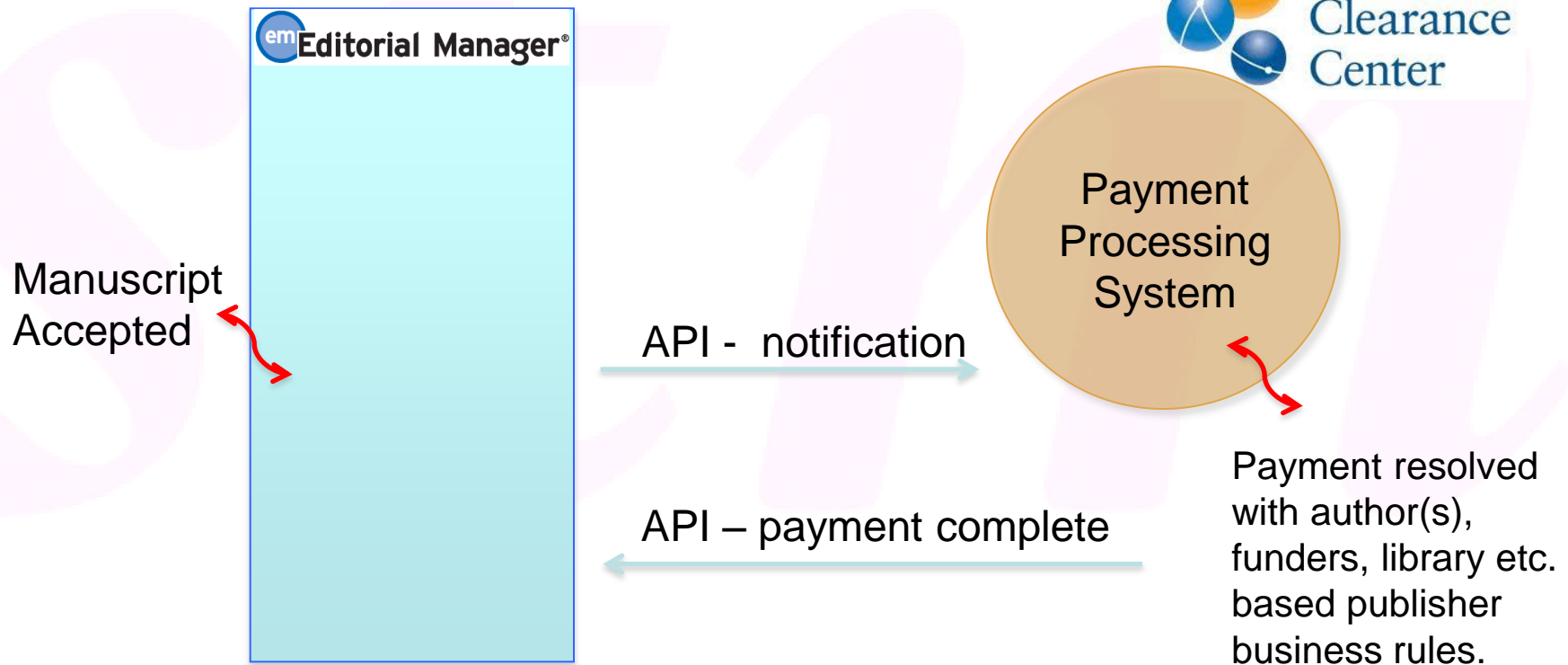


# Use Case 3: APC processing





# Use Case 3: APC Processing



# Use Case 3: APC Processing

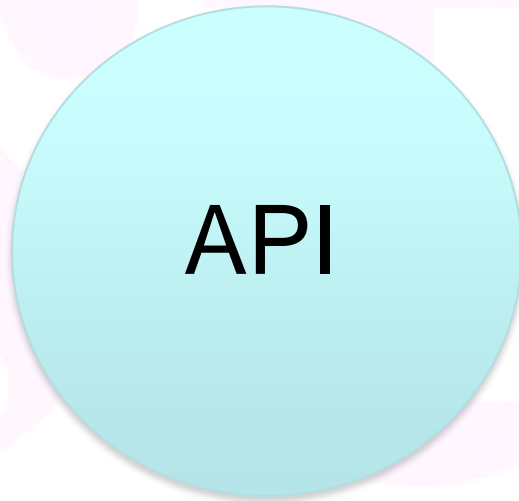
## APC API Solution Characteristics:

- Editorial workflow integrity
- To maximum extent possible separates workflow from business rules
- Seamless experience
- Configurable to meet different models

# Additional API Use Cases

- Reference processing
- Reference formatting
- Plagiarism checking
- Data extraction
- Auto-composition
- Editor selection
- Credit card processing (PayPal)
- Taxonomy engines


# APIs by themselves may leave you hungry



An API by itself is not sufficient. To be full satisfied you need:

- Context appropriate tools and data
- Data integration
- Workflow integration
- Fail-safe designs
- Appropriate configuration options

# Time's Up!



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