

Ist Medical Affairs Effektivität messbar? Using Medical Affairs Analytics to Power Strategic Decision Making and Measure Success

Medical Affairs Network Meeting Frankfurt 24.Oktober

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Pharmaspectra (Formerly Medmeme LLC)



MAPS2018
EMEA Annual Meeting

21–23 October, 2018

BERLIN, GERMANY

Using Medical Affairs Analytics to Power Strategic Decision Making and Measure Success: Learning Objectives

Using Medical Affairs Analytics To:

- Understand where best to position product information to maximize impact in the scientific landscape
- Determine which forums may work better than others in order to enhance the impact of dissemination of evidence
- To identify Thought Leaders best positioned for your strategic objectives
- To continually monitor, measure and optimize your planning and execution

AGENDA

- Quick Introduction and Situational Analysis
- Roche Ocrevus: A Look Back at a Great Product Launch
- Workshop Exercise: Scientific Communications Post-Launch Plan
- Participant Discussion

“The industry is struggling to define what success looks like when it comes to Medical Affairs”

- Martin Barrow, EMG Gold

Source: Barrow, M; Measuring the Medical Affairs Mission.2018, 02 <https://www.emg-gold.com/articles/measuring-the-medical-affairs-mission> (accessed Sept 28, 2018).

“Many organizations default to quantitative assessments of productivity and efficiency to represent impact and value. While useful as metrics, over-reliance on pure quantitative approaches can result in missed opportunities to truly capture the value of MA.....”

- Rob Mathias, Celgene Corporation

Source: Barrow, M; Measuring the Medical Affairs Mission.2018, 02 <https://www.emg-gold.com/articles/measuring-the-medical-affairs-mission> (accessed Sept 28, 2018).

So what's available today?

- Instinct
- Journal Impact Factors
- Scholarly Impact Factors
- Social Media Data
- Sentiment Analysis
- Scientometric Analytics
 - Share of Scientific Voice
 - Share of Scientific Impact



Scientometric Analytics

The study of measuring and analyzing science,
technology and innovation output

Share of Scientific Voice

- **Mentions Over Time** The collective number of times a product is noted in the medical literature and medical/scientific conferences over a period of time based on area of interest
- **Share of Scientific VoiceSM** The portion of a product's mentions out of total product mentions in the medical literature and/or medical/scientific conferences over a given period based on area of interest

Share of Scientific Impact

- **Impact Over Time** The collective amount of impact based on a range of article level metrics created for a product when noted in the medical literature and medical/scientific conferences over a period of time based on area of interest.
- **Share of Scientific ImpactSM** The portion of impact created for a product based on a range of article level metrics out of total impact created over a period of time based on the area of interest

Medical Affairs Analytics Case I : A Look Back At A Great Product Launch Ocrevus®





DIVE AWARDS

Most Impressive Drug Launch: Roche's Ocrevus

AUTHOR

[Ned Pagliarulo](#)[@NedPagliarulo](#)

Why Ocrevus stands out:

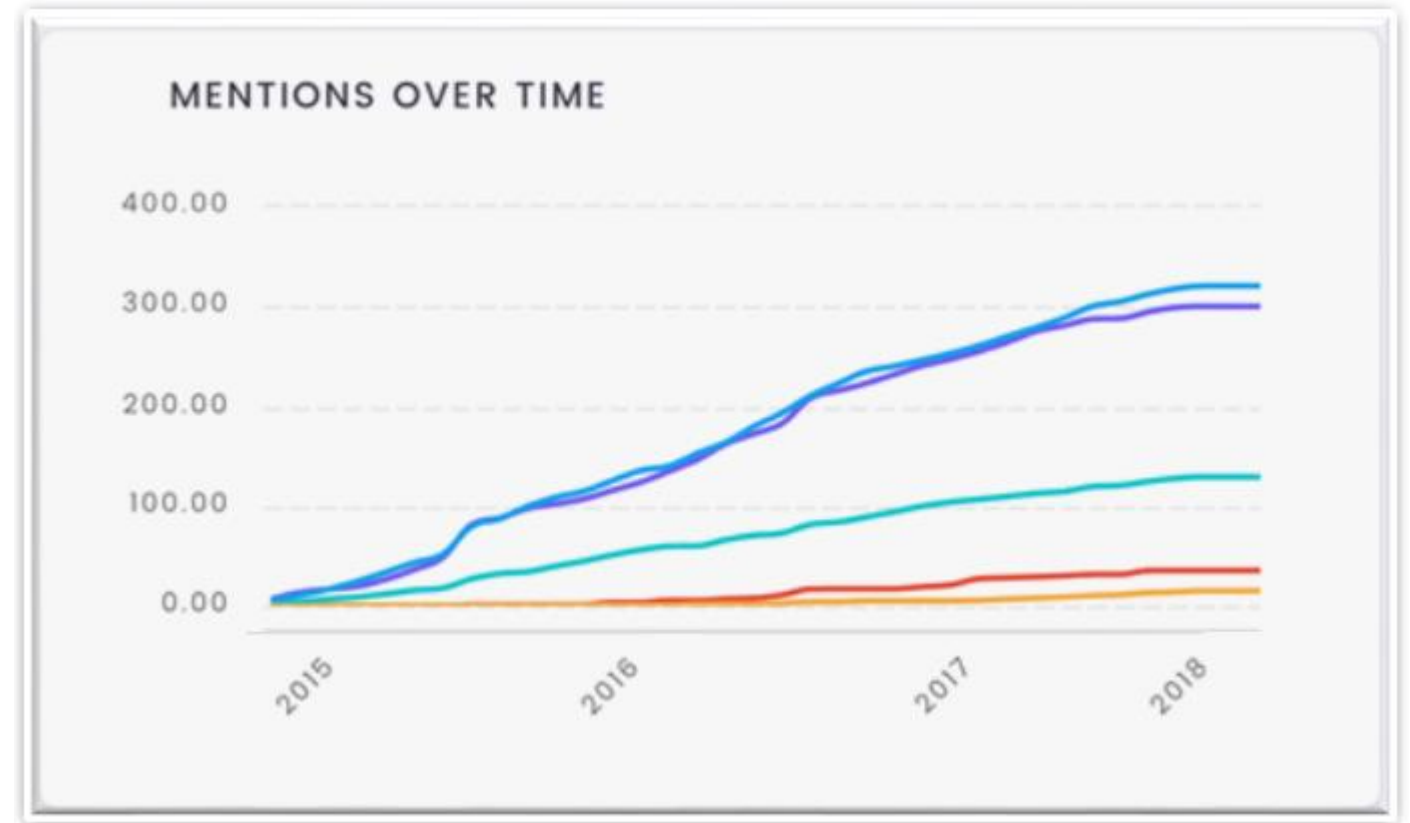
First drug OK'd to treat both relapsing and primary progressive forms of multiple sclerosis

PUBLISHED

Dec. 4, 2017

Journal Analytics For Ocrelizumab

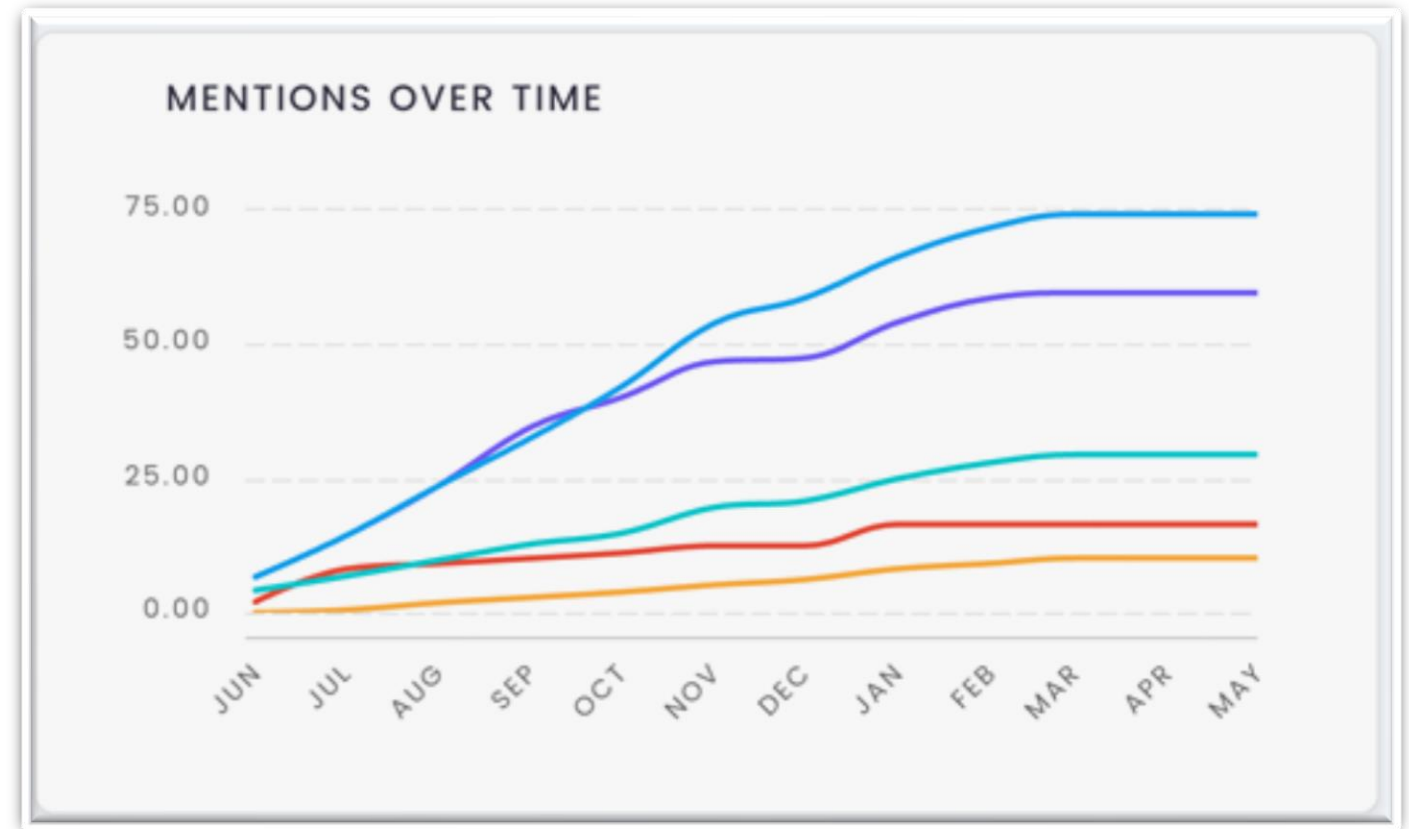
Journals: Share of **Scientific Voice** (Past 3 Yrs.)



LEGEND: ● Ocrelizumab ● Natalizumab ● Fingolimod ● Dimethyl Fumarate ● Cladribine

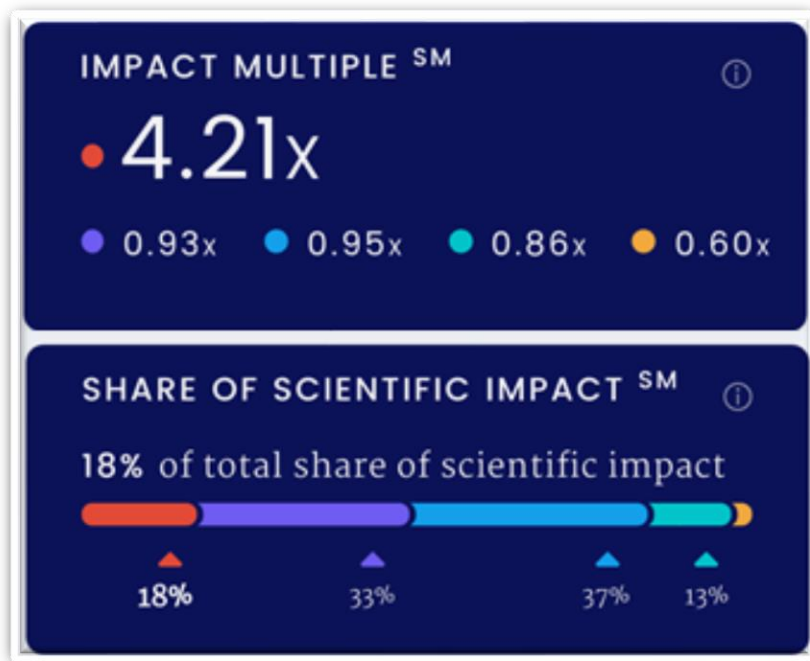
Ocrevus Launch: Journals

Share of **Scientific Voice** (12 Months)



LEGEND: ● Ocrelizumab ● Natalizumab ● Fingolimod ● Dimethyl Fumarate ● Cladribine

Journals: Share of **Scientific Impact** (Past 3 Yrs.)



LEGEND: Ocrelizumab Natalizumab Fingolimod Dimethyl Fumarate Cladribine

Journals: Share of **Scientific Impact** (Past 3 Yrs.)

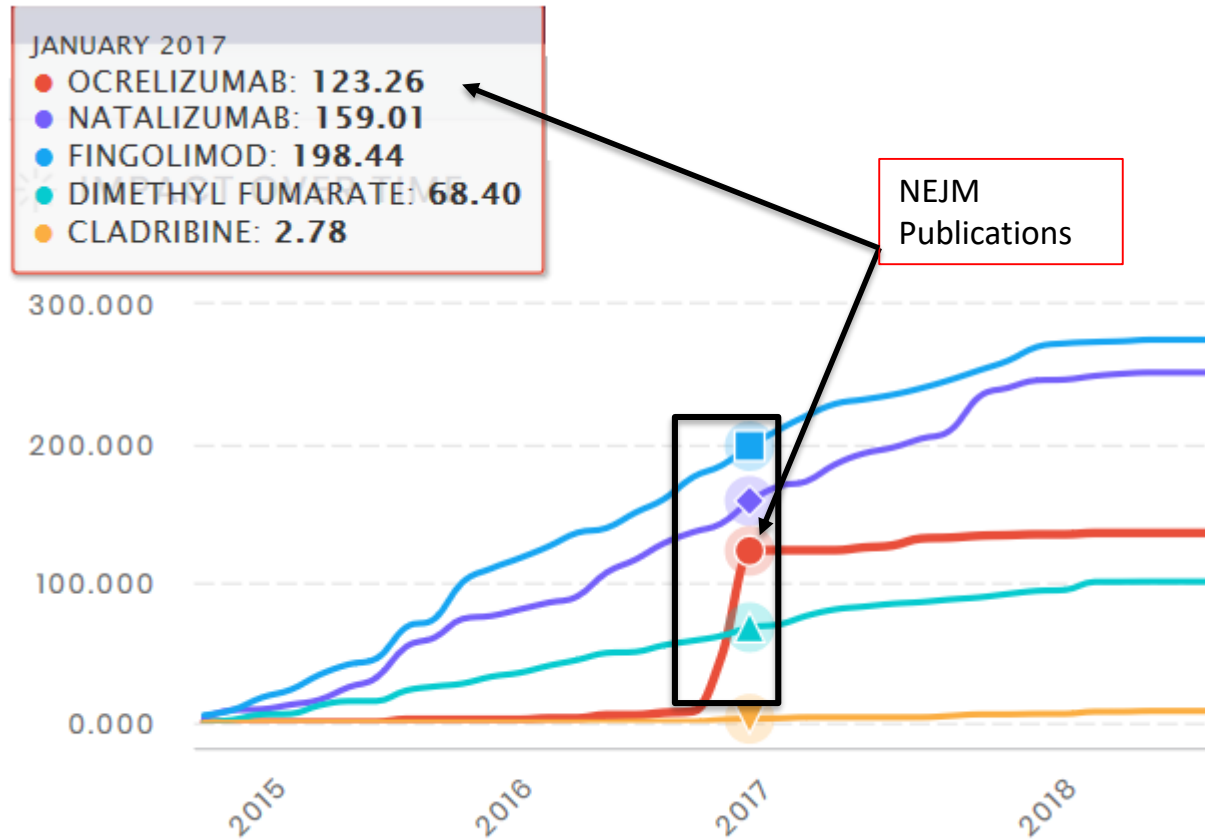
IMPACT MULTIPLE SM

● 4.21x

● 0.93x ● 0.95x ● 0.86x ● 0.60x

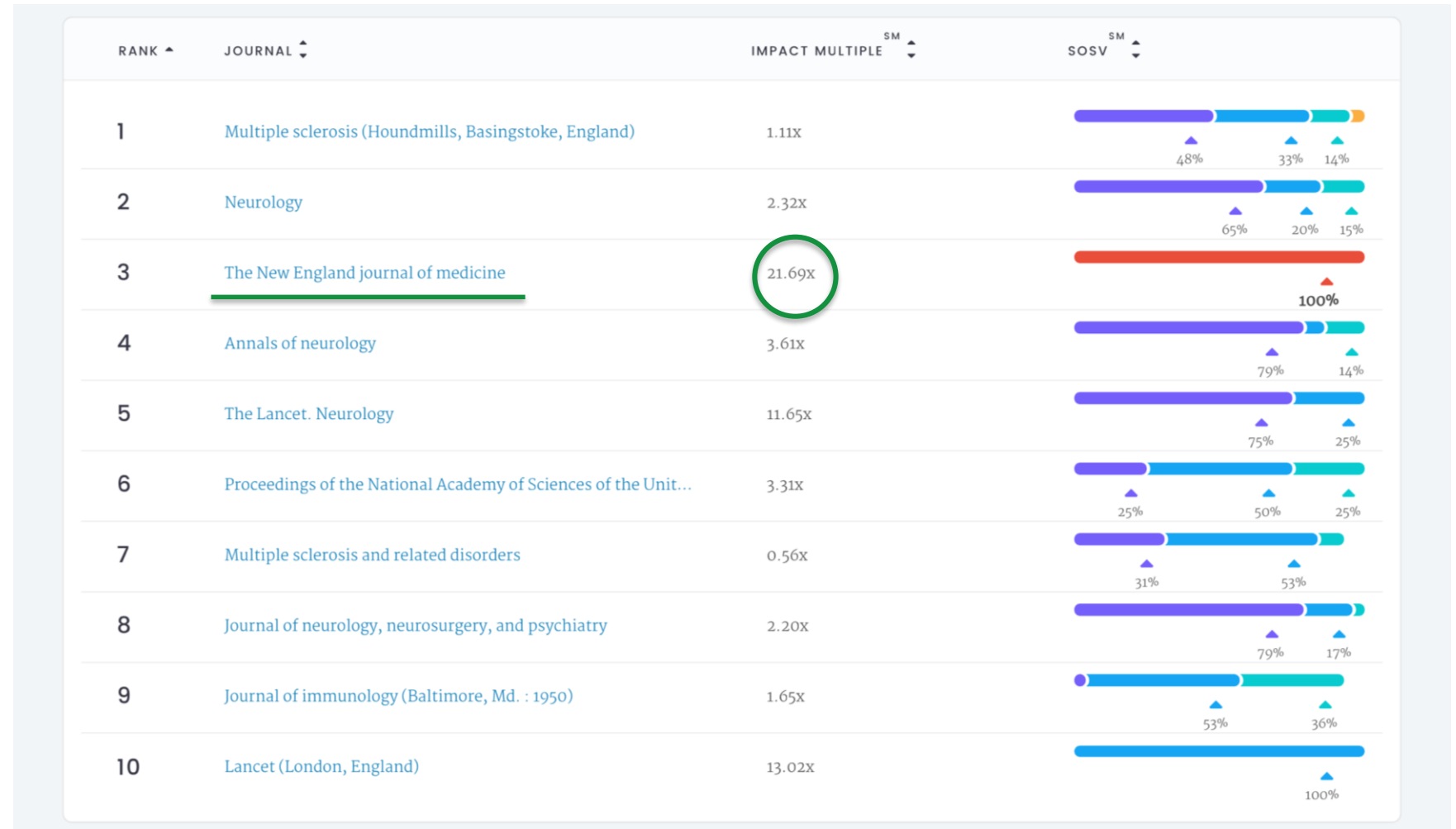
SHARE OF SCIENTIFIC IMPACT SM

18% of total share of scientific impact



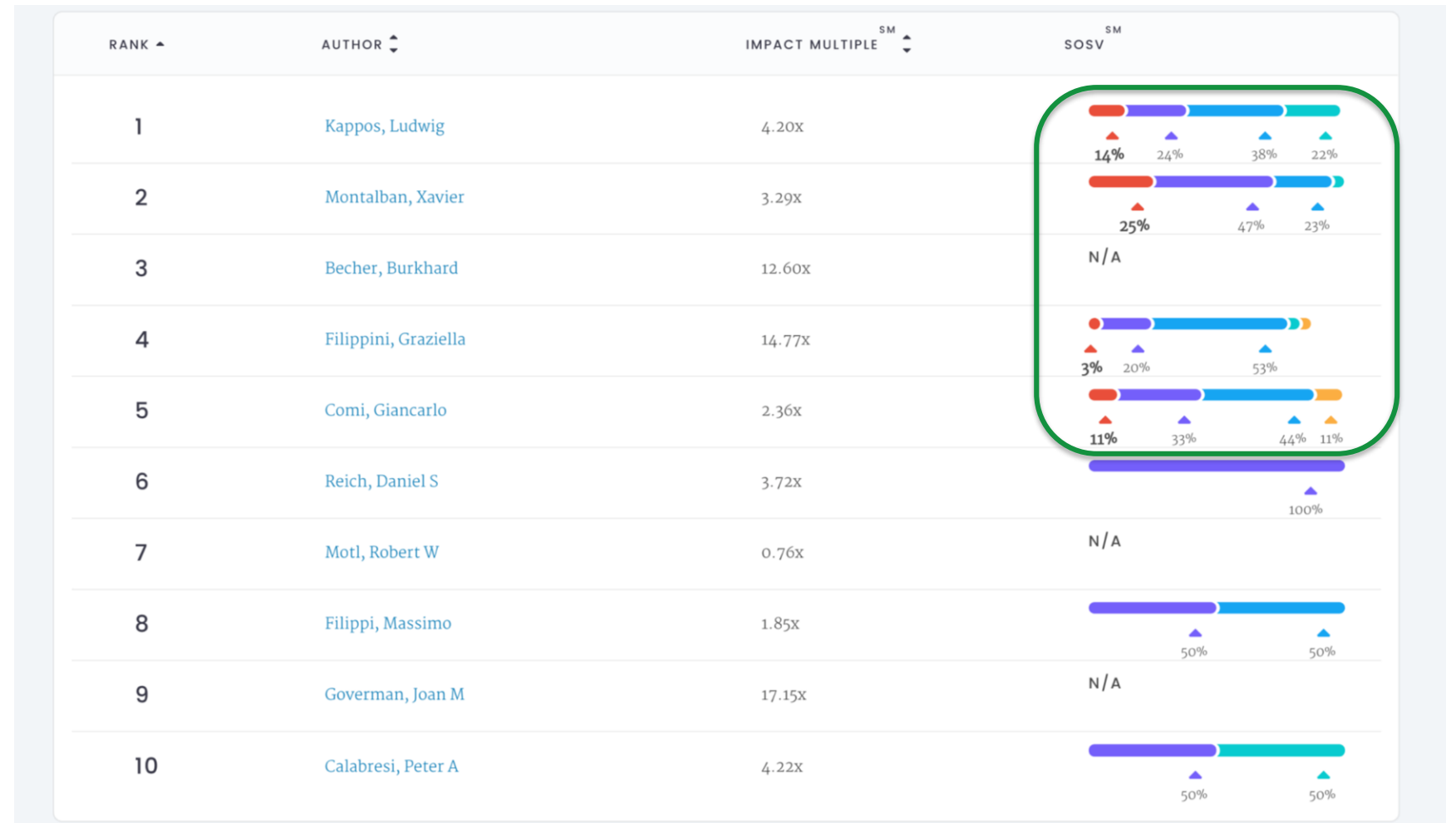
Journal Impact

Top Ten Journal Rankings in Multiple Sclerosis (Past 3 Yrs.)

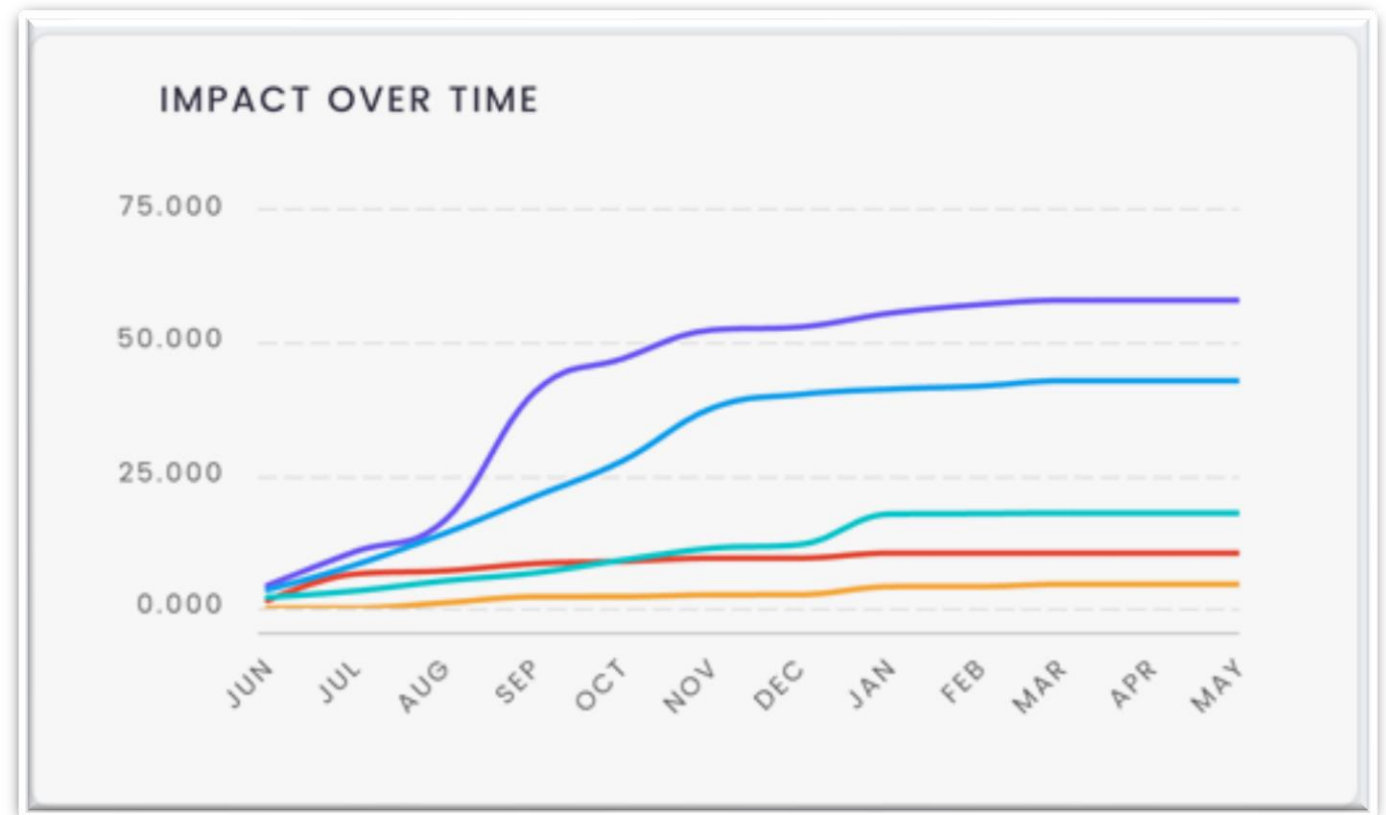
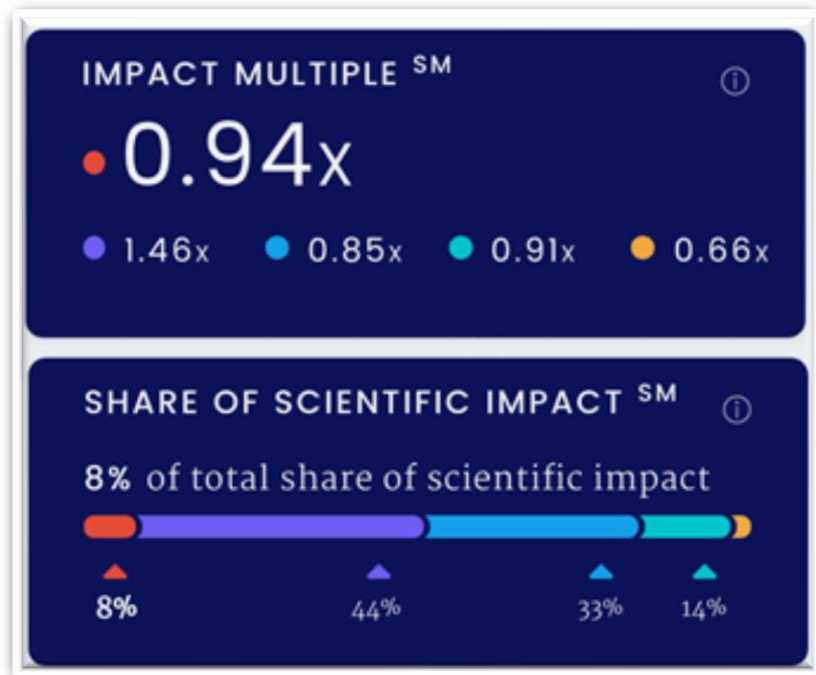


Author Impact

Top Ten Author Rankings in Multiple Sclerosis (Past 3 Yrs.)



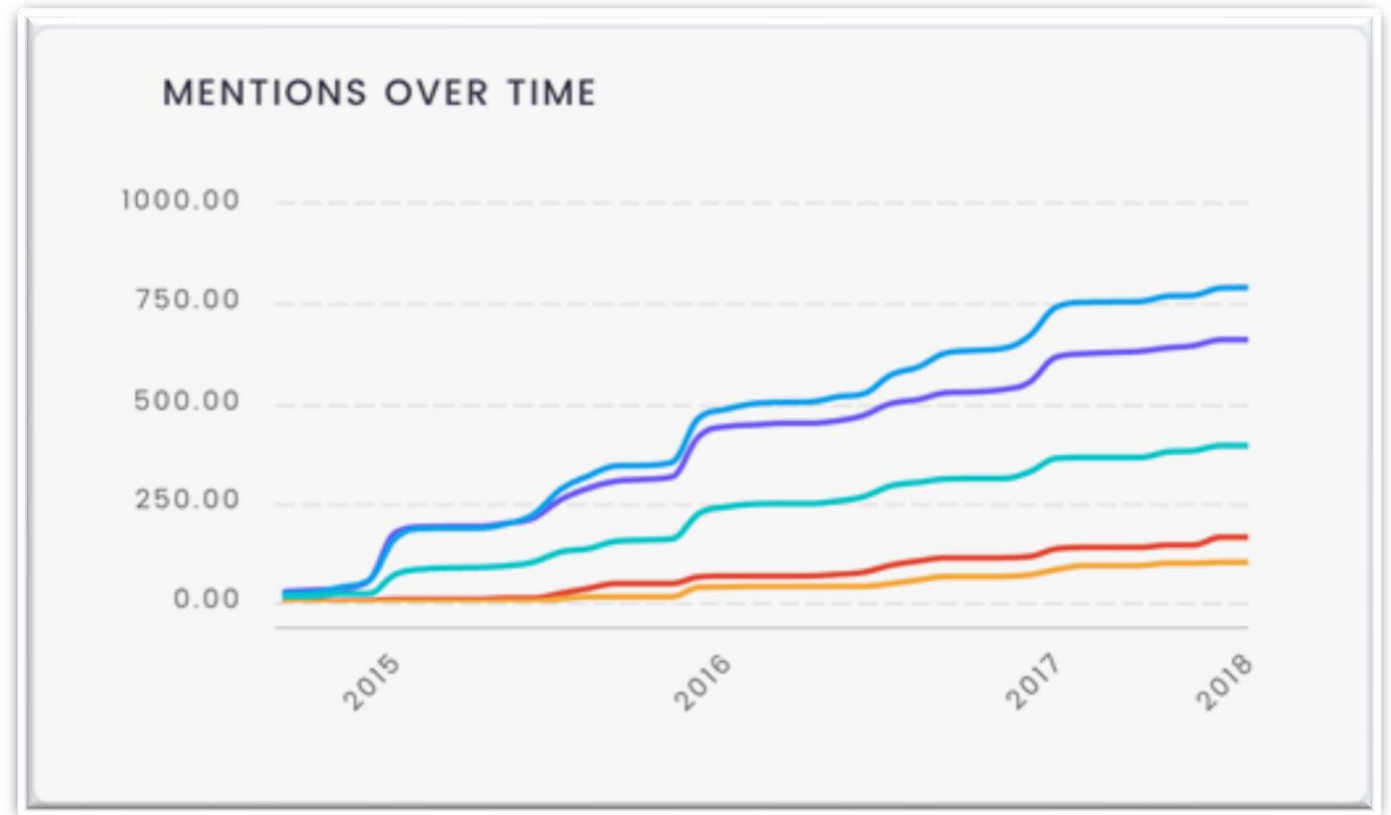
Journals: Share of **Scientific Impact** (12 Months)



LEGEND: Ocrelizumab Natalizumab Fingolimod Dimethyl Fumarate Cladribine

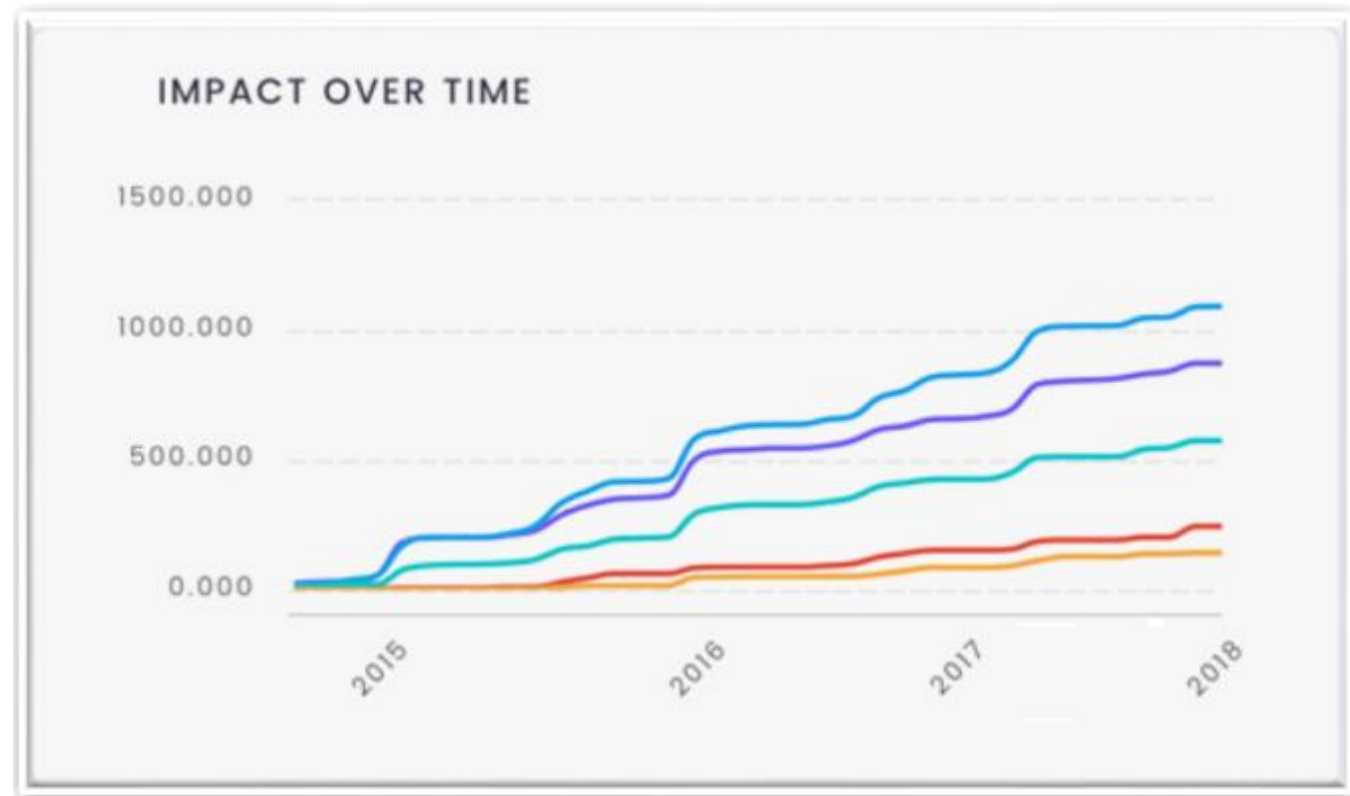
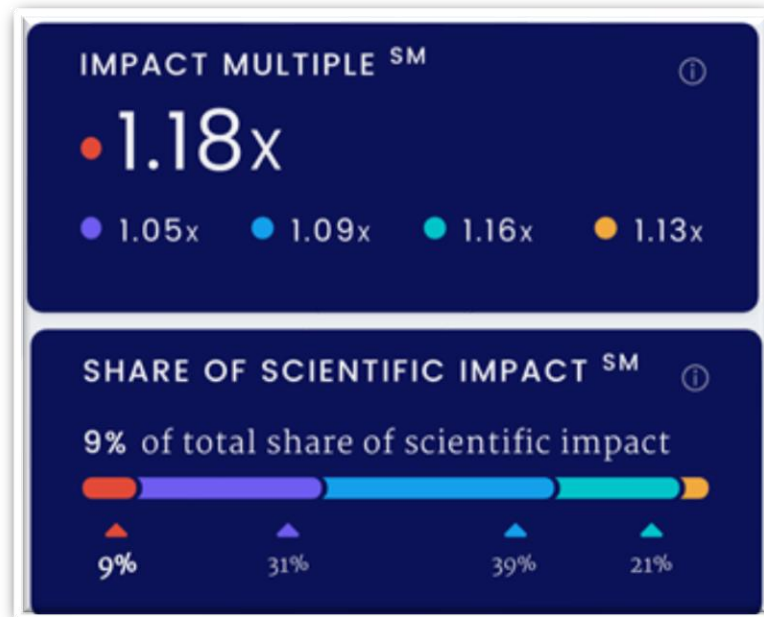
Conference Analytics For Ocrelizumab

Conferences: Share of **Scientific Voice** (Past 3 Yrs.)



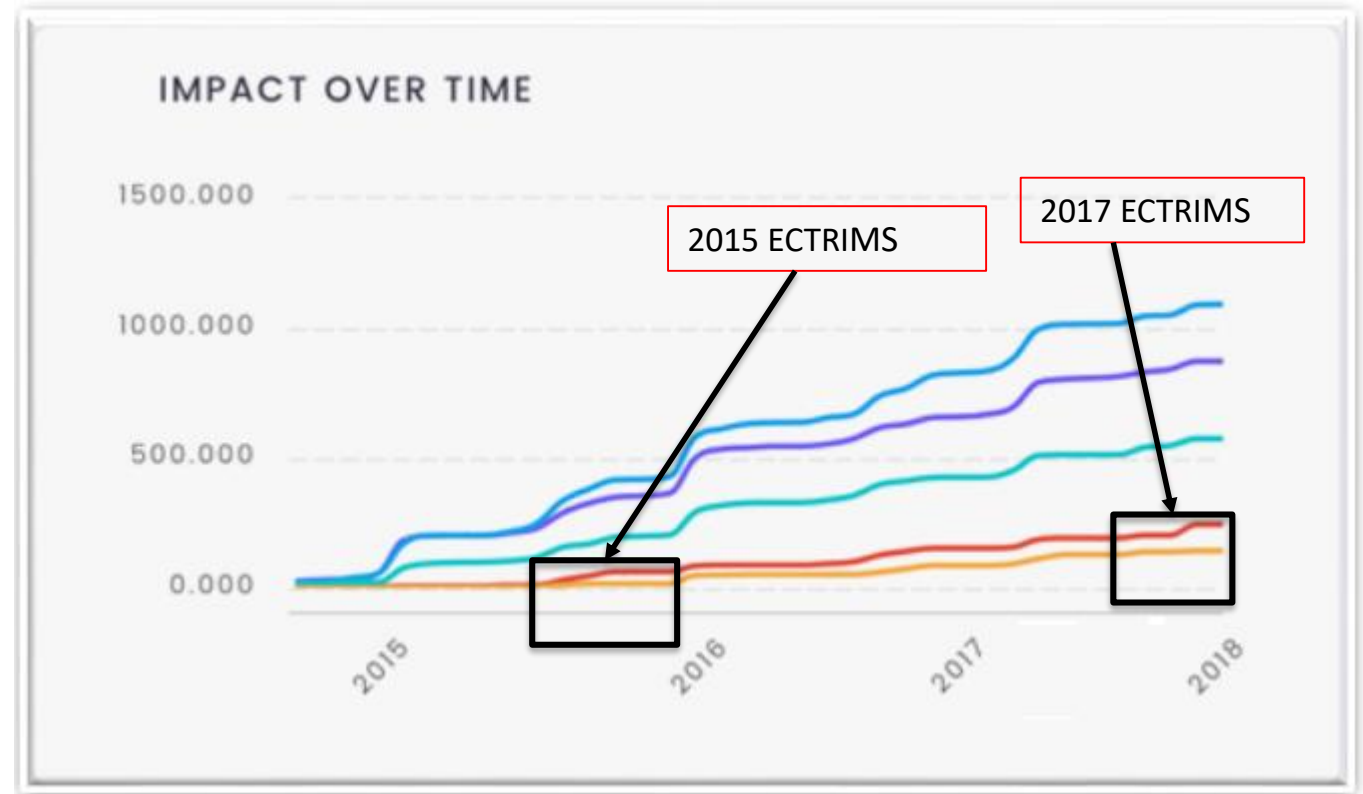
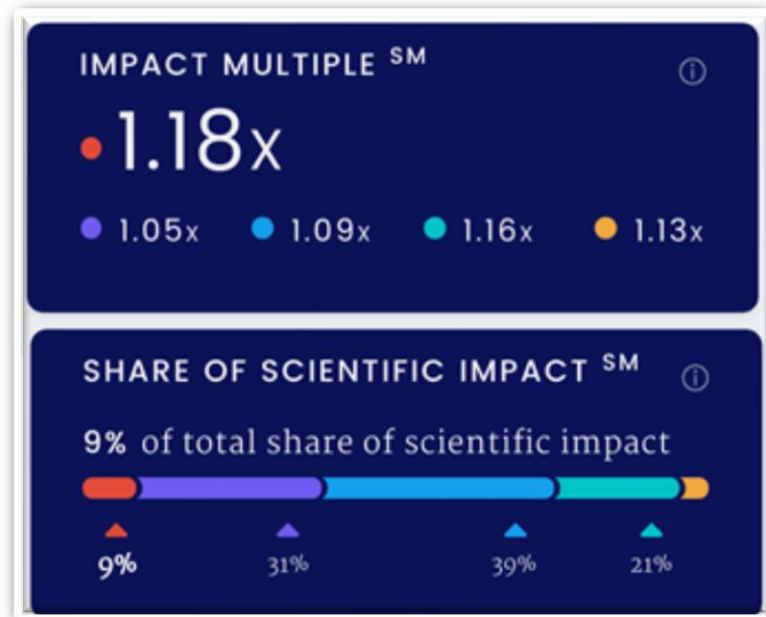
LEGEND: ● Ocrelizumab ● Natalizumab ● Fingolimod ● Dimethyl Fumarate ● Cladribine

Conferences: Share of **Scientific Impact** (Past 3 Yrs.)



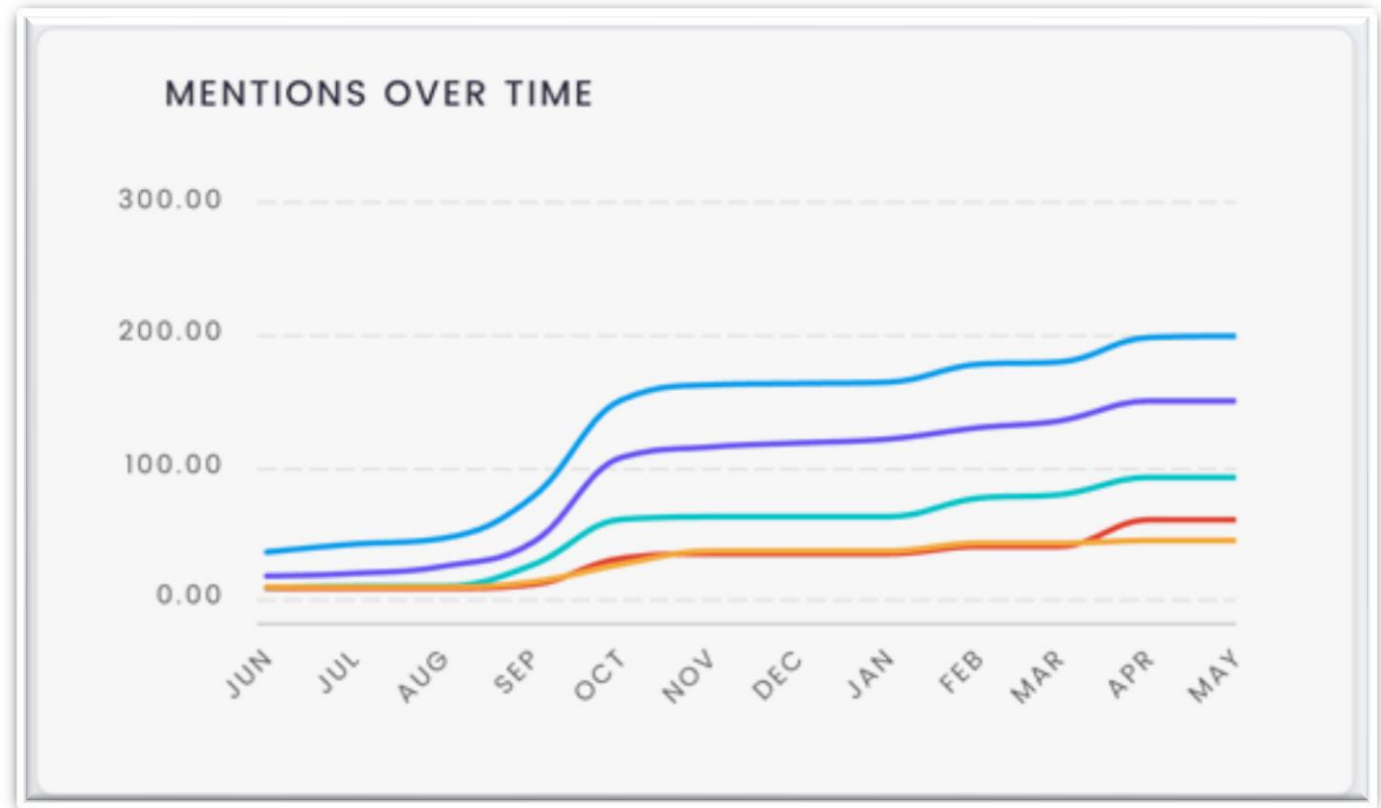
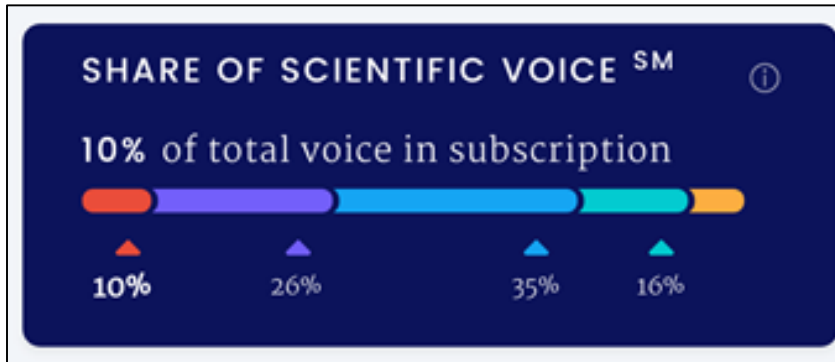
LEGEND: Ocrelizumab Natalizumab Fingolimod Dimethyl Fumarate Cladribine

Conferences: Share of **Scientific Impact** (Past 3 Yrs.)



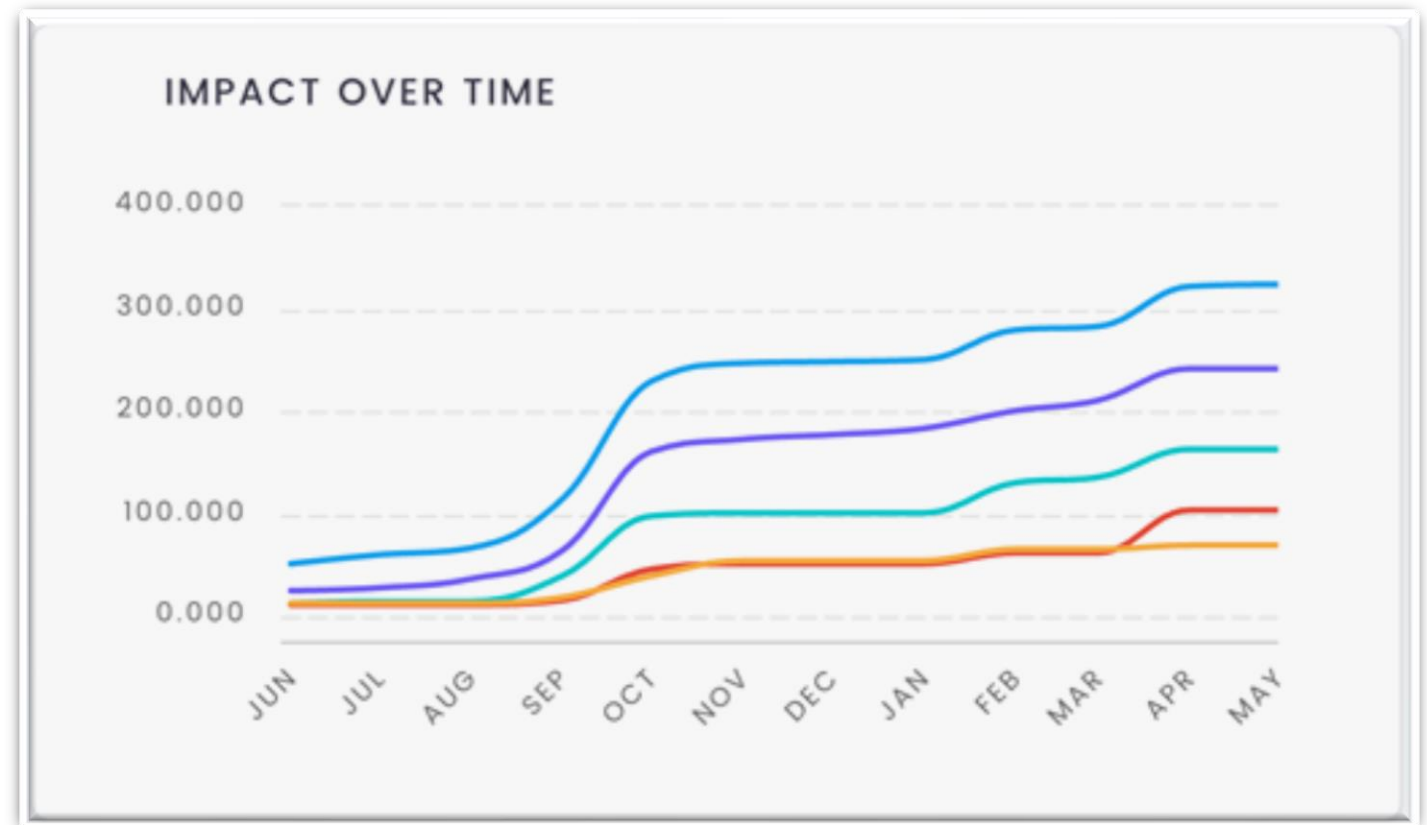
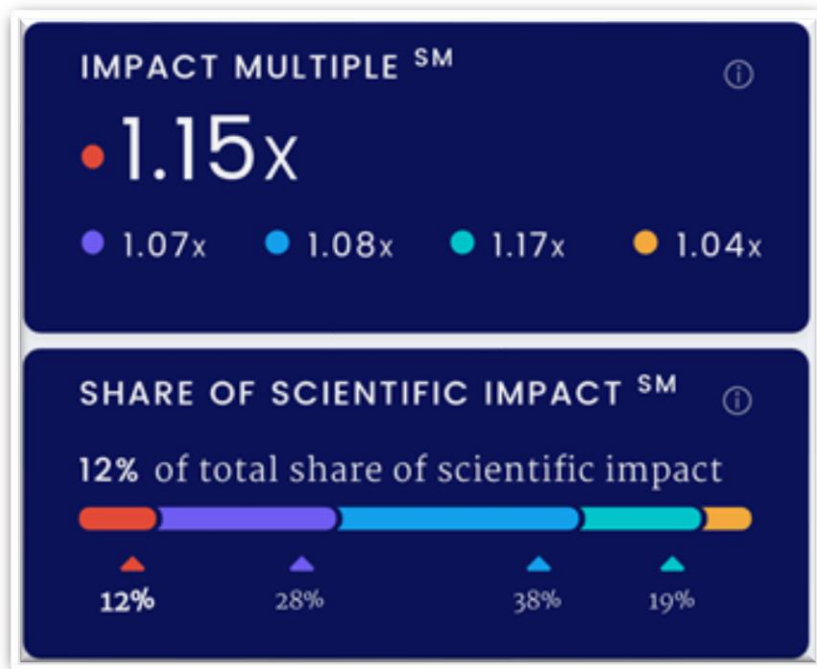
LEGEND: Ocrelizumab Natalizumab Fingolimod Dimethyl Fumarate Cladribine

Conferences: Share of **Scientific Voice** (12 Months)



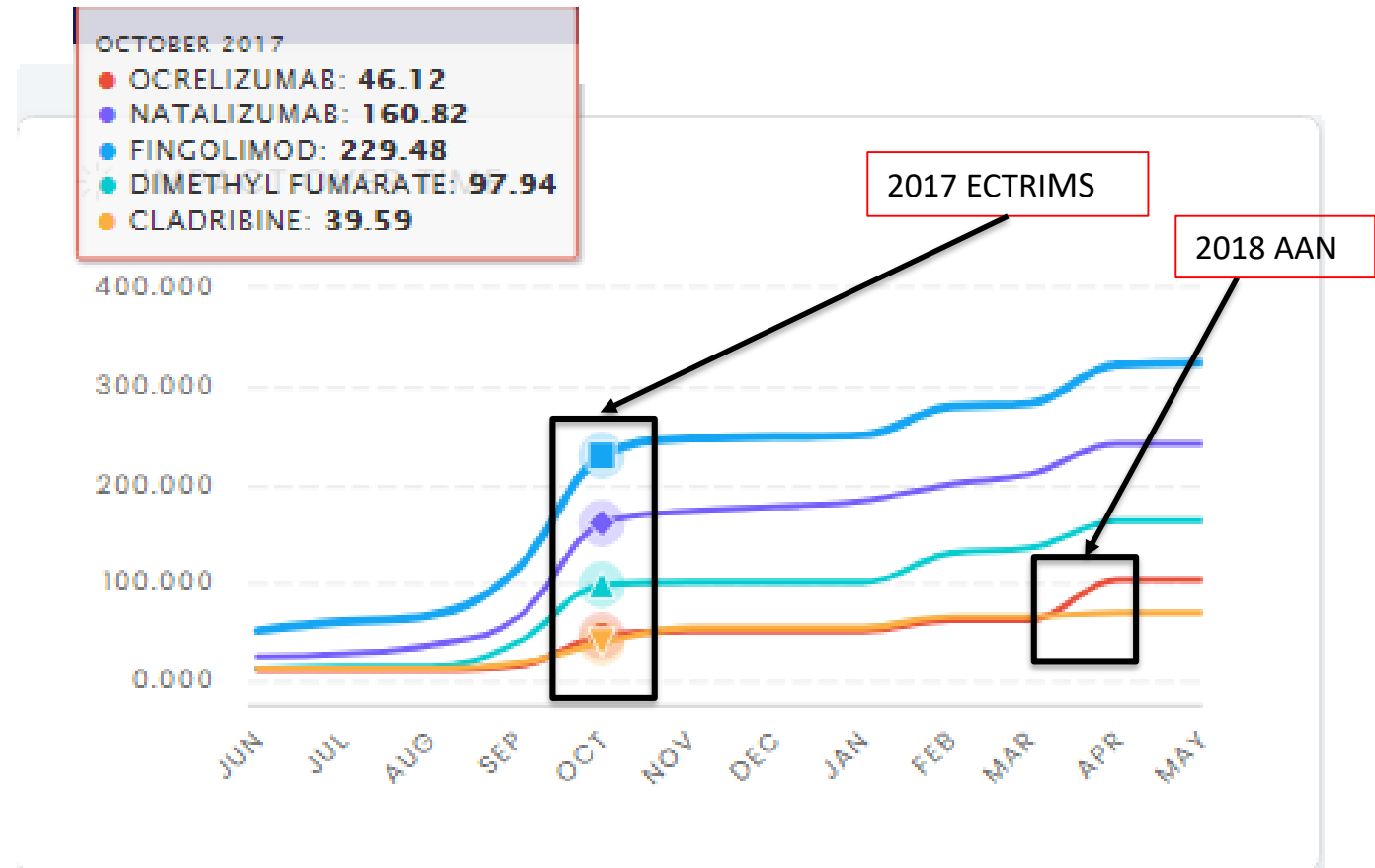
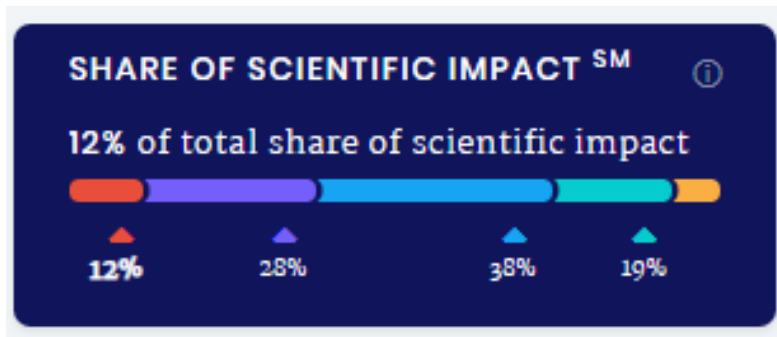
LEGEND: ● Ocrelizumab ● Natalizumab ● Fingolimod ● Dimethyl Fumarate ● Cladribine

Conferences: Share of **Scientific Impact** (12 Months)



LEGEND: Ocrelizumab Natalizumab Fingolimod Dimethyl Fumarate Cladribine

Conferences: Share of **Scientific Impact** (12 Months)



Conferences

Top Ten Conferences Rankings in Multiple Sclerosis (Past 3 Yrs.)

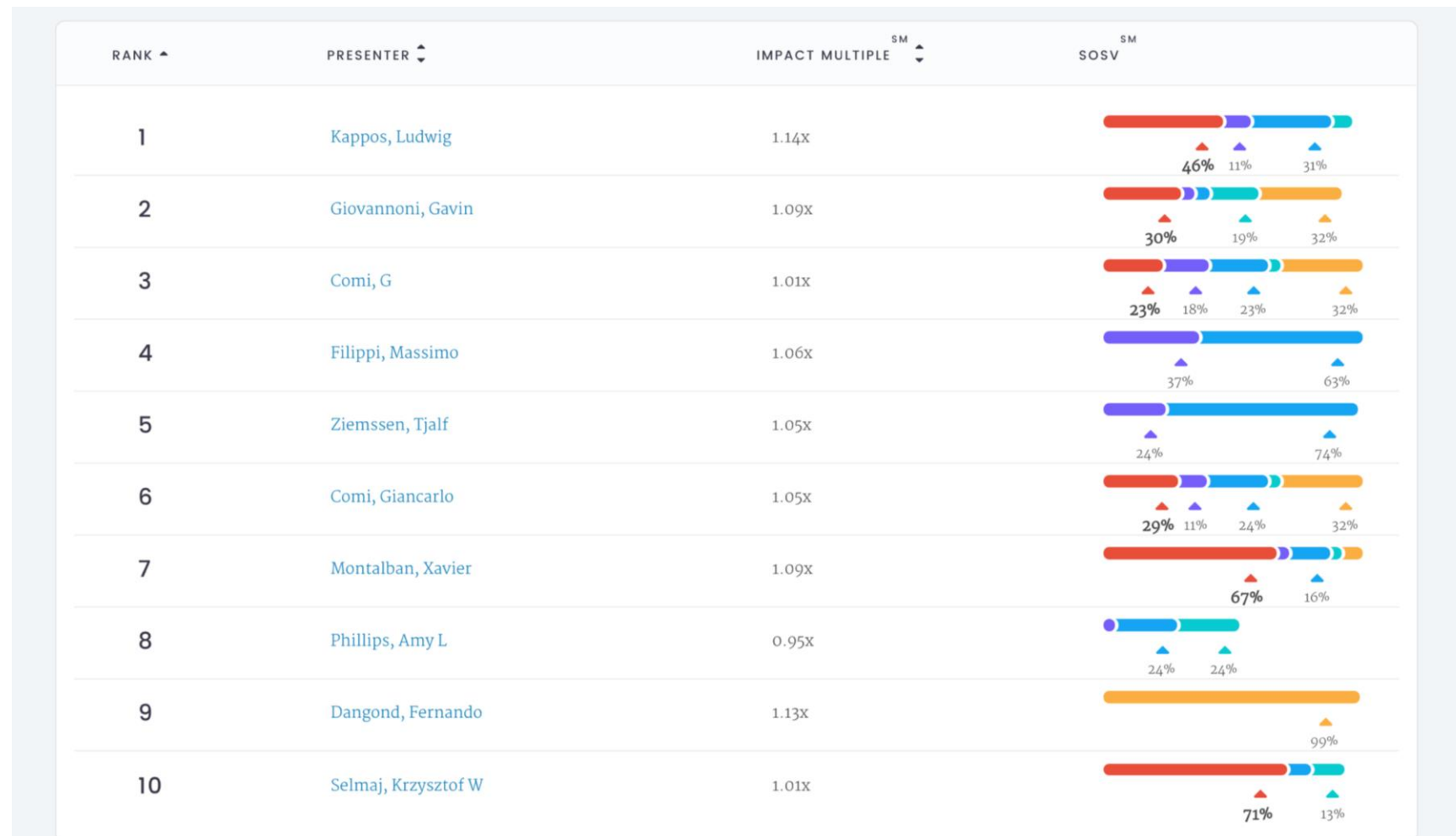
MEETINGS RANKING



LEGEND: ● Ocrelizumab ● Natalizumab ● Fingolimod ● Dimethyl Fumarate ● Cladribine

Presenters

Top Ten Presenter Rankings in Multiple Sclerosis (Past 3 Yrs.)



Did Roche use Medical Affairs Analytics to Power Strategic Decision Making and Measure Success?

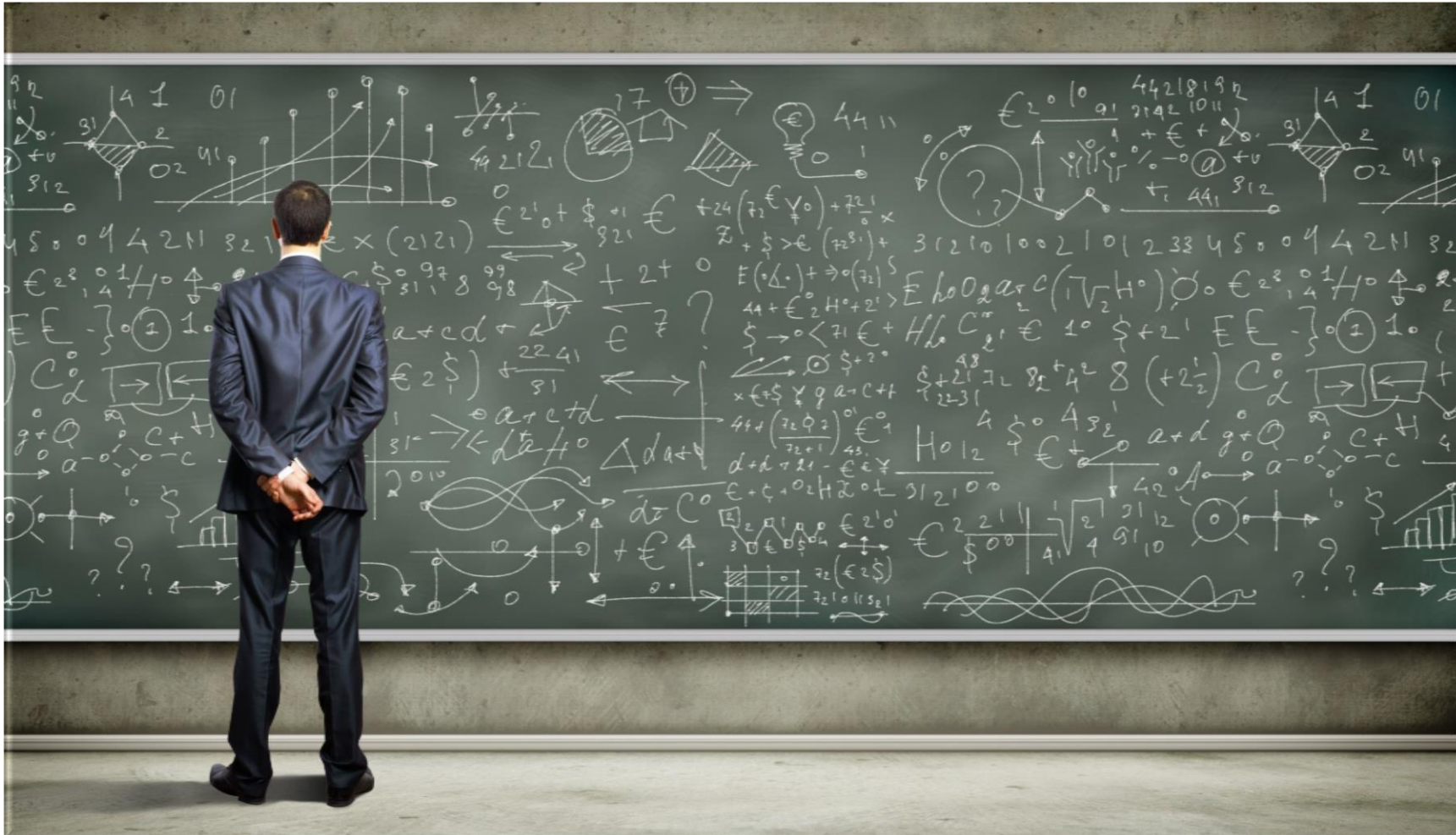
- Positioned product information to maximize impact in the scientific landscape?
 - NEJM ? What is your best bank for the buck putting resources behind
- Which forums worked better than others in order to enhance the impact of dissemination of evidence?
 - Only always target the TOP Journal? Do you need conferences? What is most cost effective?
- Identified Thought Leaders best positioned for their strategic objectives?
 - Global launch, requiring globally recognized thought leaders?
- What's next in order to maximize success?
 - Continually monitor, measure and optimize planning and execution

The background of the slide is a scenic photograph of a river. On the left, there are lush green trees and a stone wall. In the center, a bridge with blue railings spans the river. On the right, there are multi-story buildings with red roofs. The sky is blue with some clouds. The text is overlaid on a semi-transparent white box with a brown border.

Using Medical Affairs Analytics to Power Strategic Decision Making and Measure Success

Questions Thus Far?

Group Exercise: Medical Affairs Analytics Case II



Work Shop Exercise: Scientific Communications Post-Launch Plan

Scenario:

- You are The Director of Scientific Communications for your company, in charge of the Dermatology TA portfolio and part of the Medical Affairs team that has just successfully launched Eczederm[®], a new Rx IL4 inhibitor topically active for the treatment of Atopic Dermatitis

Work Shop Exercise: Scientific Communications Post-Launch Plan

Scenario (cont'd):

- Because of the unique properties of this product, your company wants to assure that evidence is communicated via the most relevant and impactful journals and meetings possible.
- It is six months post-launch and you now have three manuscripts and seven posters near completion and have been asked to reassess and optimize your publication plan.

Work Shop Exercise: Scientific Communications Post-Launch Plan

Scenario (cont'd):

- Manuscripts (3)
 - Two clinical, post-hoc analyses demonstrating prolonged efficacy.
 - One PK topical absorption and MOA study in psoriasis
- Posters (7)
 - 2 MOA
 - 1 HEOR
 - 2 Pediatric efficacy and tolerability
 - 2 Adult psoriasis efficacy and tolerability

Your Data For Review and Decision Making As Described In The Previous Case

Handouts

- Product Performance Dashboards for Eczederm
 - Conferences
 - Journals
- SoSV and Impact Rankings
 - Journals
 - Conferences
 - Authors
 - Presenters

Review the Scientific Landscape

Use The Medical Affairs Analytics Data to:

- Review the dashboards for your status to-date in terms of Share of Scientific Voice and Share of Scientific Impact for:
 - Journals
 - Conferences
- Review your competitor's status to-date in terms of Share of Scientific Voice and Share of Scientific Impact
 - Have your competitors submitted to impactful journals and meetings thus far that you could increase presence and impact in for the future?
 - Which top-ten journal have you and your competitors not published in?
 - Which top-ten authors / presenters should you consider working with in the future?
 - Which top-ten conferences should you consider having a presence at and why?

Submit Your Evidence

Use The Medical Affairs Analytics Data to:

- Determine which conferences would be best to submit your poster abstracts
 - MOA abstracts
 - Pediatric efficacy and tolerability abstracts
 - Adult psoriasis efficacy and tolerability abstracts (unapproved Indication)
 - HEOR abstract
- Determine what options you have for submitting your three manuscripts
 - Two post-hoc prolonged clinical efficacy analyses
 - One supplemental PK topical absorption and MOA study in psoriasis

Global Region ▼

Jun 2013 - May 2018



MEETINGS

JOURNALS

● Eczederm

● Fermaleukin

● Atopiderm

DASHBOARD

RANKINGS

DASHBOARD - JOURNALS DATA

Below is a topline analysis of your competitive set based on your main filters above

IMPACT MULTIPLESM

● 1.50x

● 0.77x

● 0.83x

SHARE OF SCIENTIFIC IMPACTSM

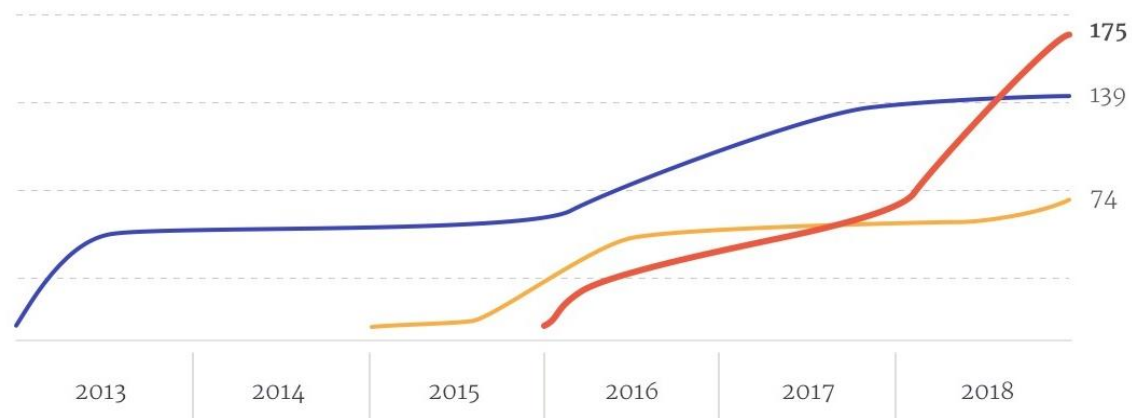
45% of total share of scientific impact

SHARE OF SCIENTIFIC VOICESM

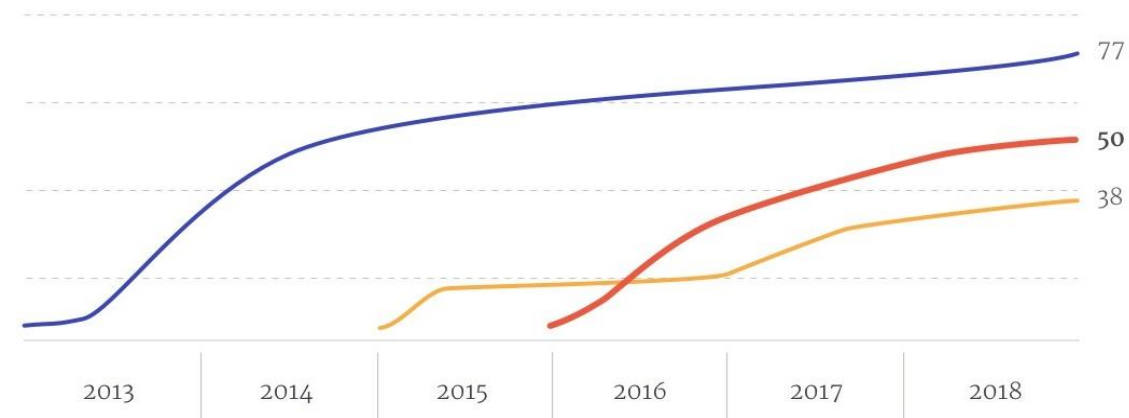
30% of total voice in subscription



IMPACT OVER TIME



MENTIONS OVER TIME



Global Region ▼

Jun 2013 – May 2018 

MEETINGS

JOURNALS

 Eczederm FEMALEUKIN Atopiderm

DASHBOARD

RANKINGS

DASHBOARD - MEETINGS DATA

Below is a topline analysis of your competitive set based on your main filters above

IMPACT MULTIPLESM 

• 1.33x

 0.85x 0.95xSHARE OF SCIENTIFIC IMPACTSM 

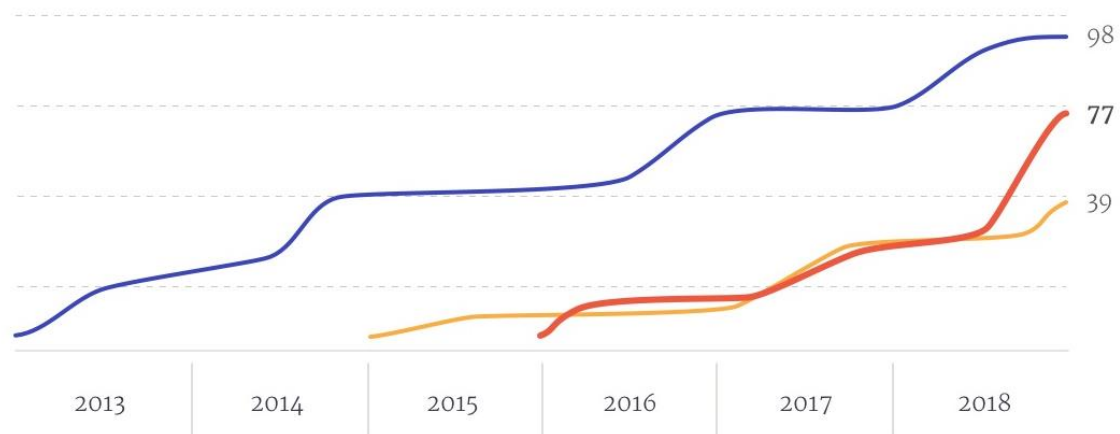
36% of total share of scientific impact

SHARE OF SCIENTIFIC VOICESM 

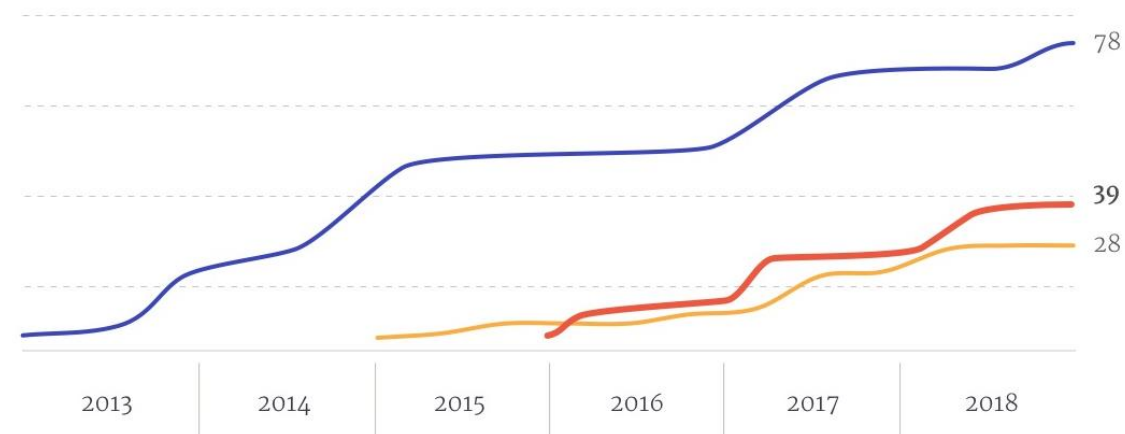
27% of total voice in subscription



IMPACT OVER TIME



MENTIONS OVER TIME



JOURNALS RANKING

RANK	JOURNAL	TYPE	IMPACT MULTIPLE	SOSV SM
1	Journal of Allergy and Clin Immunology	PC/CL	3.60x	<div> <div>74%</div> <div>21%</div> <div>5%</div> </div>
2	British Journal of Dermatology	PC/CL	1.79x	<div> <div>78%</div> <div>18%</div> <div>4%</div> </div>
3	Allergy	CL/PC	1.91x	<div> <div>78%</div> <div>12%</div> <div>10%</div> </div>
4	Journal of The European Academy of Derm& Vir	PC/CL	1.90x	<div> <div>45%</div> <div>45%</div> <div>10%</div> </div>
5	Journal of the American Academy of Derm	PC/CL/PR	24.14x	<div> <div>15%</div> <div>70%</div> <div>15%</div> </div>
6	Nature Genetics	PC	0.64x	<div> <div>70%</div> <div>30%</div> </div>
7	Nature Reviews: Immunology	PC	1.39x	<div> <div>60%</div> <div>20%</div> <div>20%</div> </div>
8	Contact Dermatitis	PR/CL/MC	1.37x	<div> <div>25%</div> <div>61%</div> <div>14%</div> </div>
9	Clinical and Experimental Allergy	PC/CL	1.49x	
10	Pediatric Allergy and Immunology	PE/CL	1.09x	<div> <div>29%</div> <div>71%</div> </div>

PC=Pre-Clinical
CL= Clinical
PR=Practice
MC=Managed Care
PE=Pediatric

LEGEND: ● Eczederm ● Femaleukin ● Atopiderm

AUTHORS RANKING

RANK	AUTHOR	TYPE	IMPACT MULTIPLE	SOSV SM
1	Mikael Ebbo	TR	43.91X	100%
2	Eric Vivier	TR	43.91X	100%
3	Kenji Kabashima	TR	4.61X	
4	Jonathan Ian Silverberg	TR	1.21X	32% 56% 12%
5	Frederic Vely	PC	43.91X	100%
6	Adeline Crinier	PE/TR	43.91X	10% 81% 9%
7	Jacob Pontoppidan Thyssen	TR	1.45X	58% 22% 20%
8	Emma Guttman-Yassky	PE/TR	2.17X	20% 80%
9	Michael Williams	CL/MC	15.32X	74% 26%
10	Richard Louis Gallo	TR/MC	15.32X	31% 40% 29%

PC=Pre-Clinical
CL= Clinical
TR=Translational
MC=Managed Care
PE=Pediatric

LEGEND: ● Eczederm ● Fermaleukin ● Atopiderm

MEETINGS RANKING

RANK	MEETING	TYPE	IMPACT MULTIPLE	SOSV SM
1	Ann Meeting of the Int Soc Investigative Derm	PC	1.01X	<div> <div></div> <div></div> <div></div> </div> <div>37%58%5%</div>
2	Congress of the Euro Acad of Derm and Vener	PR/CL	1.11X	<div> <div></div> <div></div> </div> <div>40%60%</div>
3	Ann Congress of Euro Acad of Aller & Clin Derm	PR/CL	1.38X	<div> <div></div> </div> <div>100%</div>
4	Ann Meeting of the Amer Acad of derm	PC/PR/MC/CL	0.81X	<div> <div></div> <div></div> <div></div> </div> <div>58%30%12%</div>
5	Ann Meeting of the Amer Acad of Allerg Asthma	PC/CL/PR	1.23X	<div> <div></div> <div></div> <div></div> </div> <div>15%60%25%</div>
6	Ann Meeting of the Euro Soc of Dermatologists	PR/MC/CL	1.08X	<div> <div></div> </div> <div>100%</div>
7	World Congress of Pediatric Dermatology	PC/PE/CL	1.19X	<div> <div></div> <div></div> </div> <div>38%62%</div>
8	World Conference on Itch	PC/CL/PR	1.08X	<div> <div></div> <div></div> <div></div> </div> <div>20%55%25%</div>
9	Ann Meeting of the British Assoc of Derms	PR/MC/CL	0.82X	
10	45th annual meeting of the Assoc for Derms	PR/MC	1.13X	<div> <div></div> <div></div> </div> <div>29%71%</div>

PC=Pre-Clinical
CL= Clinical
PR=Practice
MC=Managed Care
PE=Pediatric

LEGEND: Eczederm Fermaleukin Atopiderm

PRESENTER RANKING


RANK	PRESENTER	TYPE	IMPACT MULTIPLE	SOSV SM
1	Jonathan Ian Silverberg	TR	1.06X	<div> <div></div> <div>63%</div> <div>30%</div> <div>7%</div> </div>
2	Emma Guttman-Yassky	PE/TR	1.07X	<div> <div>10%</div> <div>90%</div> </div>
3	Eric Lawrence Simpson	PC	1.07X	
4	Laurent Eckert	TR	1.01X	<div> <div>32%</div> <div>46%</div> <div>22%</div> </div>
5	Abhijit Gadkari	PC	1.05X	<div> <div>100%</div> </div>
6	Katrina Elaine Abuabara	TR	1.13X	<div> <div>10%</div> <div>81%</div> <div>9%</div> </div>
7	Gianluca Pirozzi	TR	1.10X	<div> <div>22%</div> <div>58%</div> <div>20%</div> </div>
8	Neil Graham	PC	1.10X	<div> <div>79%</div> <div>21%</div> </div>
9	Gil Yosipovitch	CL/MC	1.00X	<div> <div>74%</div> <div>26%</div> </div>
10	Laurent Misery	TR/MC	0.94X	<div> <div>40%</div> <div>60%</div> </div>

PC=Pre-Clinical
CL= Clinical
PR=Practitioner
MC=Managed Care
PE=Pediatric

LEGEND: Eczederm FermaLeukin Atopiderm

Your Evidence

- Manuscripts (3)
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- Posters (7)
 - 2 MOA
 - 1 HEOR
 - 2 Pediatric efficacy and tolerability
 - 2 Adult psoriasis efficacy and tolerability



Irrefutably, Dr.
Avogadro!

So, Dr. Pythagoras,
Maximizing Impact of Our
Evidence By Analysis of
Medical Affairs Analytics
is Easy!

Indubitably!

Discussion



"Before I came here I was confused about this subject. Having listened to your lecture I am still confused. But on a higher level."

Enrico Fermi