The image is a presentation slide from the IUIS Vaccine Committee (VAC) meeting in Beijing on October 18th, 2019. The slide features a text overlay with the title "IUIS Vaccine Committee (VAC)" and the subtitle "Presentation IUIS council meeting, Beijing Oct 18th 2019." The background of the slide is orange with a pattern of white spots, giving it a somewhat abstract appearance. The text is clearly legible against the background.
• **Foster** international research activities, education and know how exchange with regard to the development of new or improved prophylactic as well as therapeutic vaccines against infectious and non-infectious diseases.

• **Promote** international harmonization of vaccination recommendations, exchange of knowledge and translation into practice to contribute improving health literacy in the population.

• **Provide** evidence based information and messages about vaccine effectiveness and safety to conquer anti-vaccine movements and vaccine hesitancy.

• **Serve** as „consulting platform“ for public health institutions (e.g. WHO, ECDC) regarding vaccine/vaccination-related statements or questions.
<table>
<thead>
<tr>
<th>Members</th>
<th>Position</th>
<th>contact</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>
The Early Career Research Prize in Vaccinology R&D is awarded by IUUIS and Vaccines Europe. The objective is to promote and foster a younger generation of scientists in the early stages of their career.

**Early Career Research Prize in Vaccinology R&D**

3rd time that Vaccine Europe has sponsored a prize for 10,000€

2019: Low applicant number – Prize needs more visibility and attention!!

Other target group??

This prize of Excellence set up by IUUIS with the contribution of Vaccines Europe aims to reward significant achievements in Vaccines R&D:

Discovery of new vaccine antigens, new vaccines design, understanding basics of immune response, new technologies to improve the future of vaccine or vaccination and that are supported by proof-of-concept data (preclinical and clinical).

Application deadline 15th September 2019

TIME TO APPLY!

Application deadline 15th September 2019
Jury Members for Vaccine Prize

2017, 2018
• Joanne Flynn
• Willem Hanekom
• Jan Holmgren
• Winfried Pickl
• Bali Pulendran
• Hedda Wardemann
• Ursula Wiedermann

2019
• Isabelle Bekeredijan-Ding
• Rita Carsetti
• Joanne Flynn
• Jan Holmgren
• Ed Lavelle
• Winfried Pickl
• Hedda Wardemann
• Ursula Wiedermann
• Observer: Faith Osier and Philippe Denoel, Chair of Vaccines Europe Research Working Group
Winner of VAC Prize 2017, 2018, 2019

2017: 9 Applicants; Winner: Tineke Cantaert, PhD (Belgian), currently working at the Institut Pasteur du Cambodge.

2018: 16 Applicants; Winner: Christian T Mayer, PhD (Germany), Post Doc at Rockefeller University N.Y.

2019: 5 Applicants; Winner: Stanislas Goriely, MD, PhD; Belgium

Award Ceremony for 2017+2018 during JOINT SYMPOSIUM IUIS/ECI during the 5th European Congress of Immunology held in Amsterdam from September 2 – 5, 2018 “Trends in Vaccinology”

Award Ceremony for 2019 -> suggestion : during EIW 2020 Vienna (cooperation with Austrian Society of Vaccinology)
# TRENDS IN VACCINOLOGY

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Title</th>
<th>Time</th>
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<tbody>
<tr>
<td>Ed Lavelle</td>
<td>New generation of adjuvants: each target group its own adjuvant?</td>
<td>13:55</td>
<td>14:15</td>
</tr>
</tbody>
</table>

# PRIZE FOR EXCELLENCE IN VACCINES RESEARCH AND DEVELOPMENT IN EUROPE

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Description</th>
<th>Time</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Phillipe Denoel</td>
<td>Short introduction about the motivation of Vaccine Europe to sponsor the prize.</td>
<td>14:15</td>
<td>14:18</td>
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</tbody>
</table>

- Prizes to be handed over to the winners.
- The winner of 2017 to give a very short presentation of her work
- The winner of 2018 to give a very short presentation of her work
European Immunization Week 2019
Vaccination: Social Responsibility or Mandatory Obligation?
Austria in an European Comparison: Expert experience reporting and panel discussion
Wednesday, 24th April 2019, 11.30 am – 6.30 pm
Van Swieten Saal, Medical University of Vienna
Van-Swieten-Gasse 1a, 1090 Vienna
www.ogvak.at
www.meduniwien.ac.at

In cooperation with:
European Immunization Week 2019

The WHO European Region marks European Immunization Week (EIW) to promote immunization as vital to preventing diseases and protecting life. This year, on 24–30 April 2019, the campaign aims to raise awareness of the benefits of vaccines and improve all efforts to sustain or increase immunization coverage. The Austrian Society of Vaccinology together with the Medical University of Vienna (MedUni Vienna) organizes an international symposium to discuss possible strategies to improve communication to conquer fake news and anti-vac campaigns, and raise the question if obligatory vaccination can or can’t help to improve vaccine coverage.

Programme

11.30 am – 12.00 pm
Registration and Welcome
Markus Müller,
Rector of the MedUni Vienna
Ursula Wiedermann-Schmidt,
MedUni Vienna, President ÖGdV, Austria

12.00 – 1.30 pm
Session 1
Chair: Heidemarie Holzmann,
MedUni Vienna, ÖGdV, Austria

Anti-Vac Landscape in Europe: pro and cons of mandatory vaccination
Claudia Müller, Luxembourg Institute of Health, Luxembourg

Improving immunization coverage: a WHO perspective
Mark Mascet, WHO Regional Office for Europe

Germany’s next steps towards better vaccination coverage
Thomas Mertens, Ständige Impfkommission (STIKO), Germany

2.00 – 3.00 pm
Session 2
Chair: Faith Oiser, President elect International Union of Immunological Societies (UIIS), Kenya

Mandatory vaccination in France: rationale and first results
Dani Levy-Bruhl, Santé publique, France

Mandatory vaccination in Italy: acceptance or source of opposition?
Rita Corsinetti, Bambino Gesù Ospedale Pediatrico, Italy

Vaccination Policies for Healthcare Personnel in Europe: Current Standards
Helena Maltezou, Hellenic Centre for Disease Control and Prevention, Greece

3.00 – 3.30 pm
Coffee Break

3.30 – 4.30 pm
Session 3
Chair: Ursula Wiedermann-Schmidt,
MedUni Vienna, ÖGdV, Austria

Implementation and Acceptance of the National Vaccination Program in Finland
Hanna M. Kohn, National Institute for Health and Welfare, Finland

How is Austria doing in its fight against vaccine preventable diseases? From the perspective of the infectious disease epidemiologist
Daniela Schmid, Österreichische Agentur für Gesundheit und Ernährungssicherheit (AGES), Austria

Immunization Information System – a future tool to increase vaccination rates in Austria
Maria Pauleke-Korinek, Federal Ministry of Labour, Social Affairs, Health and Consumer Protection (BMASK), Austria

4.30 – 5.30 pm
General discussion:
“Findings, Conclusions and Solutions” – is there a European solution to enhance vaccination coverage rates?
(written document to be established)

5.30 – 6.30 pm
Meet and mingle with wine and cheese
EIW 2020: 20\textsuperscript{th} April in Vienna

combine with

1. VAC Prize ceremony (2019)
2. Annual VAC group meeting
EDITORIAL

Mandatory vaccination: suited to enhance vaccination coverage in Europe?

Heidemarie Holzmann¹, Ursula Wiedermann²
¹. Center for Virology, Medical University of Vienna, Austria
². Institute of Specific Prophylaxis and Tropical Medicine, Medical University of Vienna, Austria
Correspondence: Ursula Wiedermann (ursula.wiedermann@meduniwien.ac.at)

Citation style for this article:

Article submitted on 12 Jun 2019 / accepted on 27 Jun 2019 / published on 27 Jun 2019
Special Research Topic: „Challenges in Vaccinology“
Guest Editors: Ursula Wiedermann, Rita Carsetti, Ed Lavelle, Winfried Pickl

(1) Vaccination and public health:

a. Challenges in vaccinology: from host and pathogen to systems vaccinology.
b. Challenges in vaccinology in developing countries.
c. Effects of migration on vaccine preventable infectious diseases.
d. Communication with the public: how to conquer vaccine fatigue?

(2) Demographic changes and vaccines:

a. Vaccine responses in pediatric patients, with a particular focus on neonates and premature infants.
b. Influence of maternal vaccine-based immunity on pediatric immune responses.
c. Vaccination efficacy and herd immunity.
d. Nutritional status and vaccination efficacy.
e. Vaccination in immuno-compromised patients (e.g. bone marrow transplant recipients; patients with primary immunodeficiencies; patients with chronic inflammatory diseases and patients on immunosuppression treatments).

(3) Challenges in vaccines against emerging and re-emerging infectious diseases:

a. Influenza vaccines: one vaccine for all or influenza vaccines for certain age and risk groups?
c. Malaria vaccines: measuring success rates and determining personalized / stratified approaches for vaccination programs.
d. ZIKA/Chikungunya vaccines.
e. Dengue vaccines.
f. TB vaccines: new developments.

(4) Challenges towards developing vaccines for non-infectious cancers:

a. Vaccines against allergies.
b. Prophylactic and therapeutic vaccines against cancer.
13 accepted abstracts
01 December 2019

Current challenges in Vaccinology

About this Research Topic

Vaccines represent one of the greatest public health achievements and are one of the most effective tools of modern preventative medicine. The development of effective vaccines and of respective global immunization programs has led to a significant decline in the incidence of severe and potentially lethal infections and related deaths. It has also led to the eradication / near eradication of once lethal infectious diseases, such as smallpox and polio. Consequently, vaccination – through the control of infectious diseases – has contributed to a striking increase in life expectancy in many countries worldwide.

However, we still face several important challenges towards developing more efficacious vaccines for many diseases and for different populations. For example, optimal protection of the human population in early life (e.g. neonates) and in the elderly remains a major challenge. The reasons why the immune system is less
Submitted 26/06/2019

**Current Progress in Particle based systems for Transdermal vaccine delivery**
Jonas Pielenhofer, Julian Sohl, Mainke Windbergs, Peter Langguth, Markus Philipp Radsak
Accepted
Submitted 26/06/2019

**New Vaccines against Tuberculosis**
Stefan H.E. Kaufmann
Accepted
Submitted 24/06/2019

**Intracellular pathogen replication heterogeneity: implications for vaccine development**
Jomien Mouton, Caroline Beltran, Elmarie Myburgh, Samantha Leigh Sampson, Gerhard Walzl, Annemieke Geluk, Paul Kaye
Accepted
Submitted 20/06/2019

**Intracellular pathogen replication heterogeneity: implications for vaccine development**
Jomien Mouton, Caroline Beltran, Samantha Leigh Sampson, Gerhard Walzl, Elmarie Myburgh, Paul Kaye, Annemieke Geluk
Accepted

**Vaccines against antimicrobial resistance**
Rino Rappuoli, Roberto Rosini, Mariagrazia Pizza
Accepted
Submitted 23/07/2019
Vaccine safety communication - a three-phased model for crisis management
Katharina-Sophia Dolezal, Katrine Bach Habersaat, Mark Muscat
Accepted
Submitted 30/09/2019

Vaccines for the older population: immunological challenges and future perspectives
Birgit Weinberger, Angelika Wagner
Accepted
Submitted 01/09/2019

Vaccines for preventing infections due to encapsulated bacteria in inflammatory bowel disease
Marco Vincenzo Lenti, Caterina Mengoli, Nicola Aronico, Laura Conti, Marta Vernero, Sara Cococcia, Antonio Di Sabatino
Accepted
Submitted 30/08/2019

Current efforts in the development of vaccines for the prevention of Zika and Chikungunya virus infections
Roland Tschismarov, Sabrina Schrauf, Erich Tauber, Katrin Ramsauer
Accepted
Submitted 01/08/2019

Obesity and sex affect the immune response to Tick-borne encephalitis (TBE) booster vaccination
Erika Garner-Spitzer, Eva Maria Poellabauer, Angelika Wagner, Angela Guzek, Ines Zwazl, Claudia Seidl-Friedrich, Christoph J. Binder, Karin Stiasny, Michael Kundi, Ursula Wiedermann
Accepted
Submitted 28/07/2019

The adjuvant LT-K63 enhances activation and survival of neonatal B cells, plasmablasts and plasma cells, through enhanced BAFFR and BCMA expression and increased APRIL secretion by accessory cells in bone marrow
Auður Anna Aradottir Pind, Giuseppe Del Giudice, Ingileif Jonsdottir, Stefánia P. Bjarnarson
Accepted
Submitted 28/07/2019

The adjuvant LT-K63 overcomes limited germinal center reaction in neonates by reducing early induction of regulatory cells
Stefánia P. Bjarnarson, Auður Anna Aradottir Pind, Giuseppe Del Giudice, Ingileif Jonsdottir
Accepted
Submitted 27/07/2019

IgA Antibody response to recurrent influenza vaccination in the young and elderly
Emily Frances Clutter, Rodrigo Bessa Abreu, Greg Adam Kirchenbaum, Giuseppe Andrea Sautto, Ted Milburn Ross
Accepted
Submitted 23/07/2019

Vaccines against antimicrobial resistance
Rino Rappuoli, Roberto Rosini, Mariagrazia Pizza
Accepted
Submitted 23/07/2019
EFIS Vaccination Task Force

Mission: to play a key role in reversing the downwards trend in childhood vaccination
By providing strong, engaging, evidence-based and collective voice in Europe

Goals:
1. To engage the general public and politicians in the benefits and importance of childhood vaccination
2. Develop a ”toolkit“ to lobby and influence domestic policy and immunization service delivery
3. Develop information to societies

Telefon conference on 18th September 2019 led by Doug Brown, British Society of Immunology;
8 European Societies were represented
Face to face meeting planned in 2020 to concretize and specify „Mission, Aims and Goals“ of the task force
A lot of ideas and initiative are going on.... How to streamline and form synergisms??

Edited by:
Bernd Rechel
Erica Richardson
Martin McKee