EURL news
News related to the EURL activities

Inter-laboratory test for tetracycline determination on teeth 2017: Test now ongoing
Further to the call for registration for the inter-laboratory test for tetracycline determination 2017, 13 NRLs volunteered to perform the test. The samples were sent to participants on 2 October 2017 under dry ice. Each panel is composed of several positive or negative red fox jaws for tetracycline, an acknowledgment form and a result form. The acknowledgement and result forms are expected back to the EURL by 30 October 2017 at the latest. As usual, a technical questionnaire related to the technique used has to be online answered.

Workshop for rabies 2017: Report online
The 9th workshop for rabies was held on 13 and 14 June 2017 in Budapest, Hungary. The annual rabies European Union Reference Laboratory (EURL) meeting gathered a total of 89 participants, among them 38 from the European Union Member States (EUMS) and 11 from European Union bordering countries supported by TAIEX and 30 from other laboratories from all over the world. The report of this meeting has been sent on 28 September to all participants and is now available online, as well as the presentations, in the private part of the website (for NRL members only).

Rabies serology news
News related to rabies serology activities

Rabies serology inter-laboratory test 2017
Seventy-two out of the eighty-one participating laboratories successfully passed the 2017 rabies serology inter-laboratory test. Congratulations to all of them! As usual, a link to a satisfaction questionnaire has been sent to the participating laboratories for quality assurance matters. The list of the laboratories authorised to carry out the serological tests to monitor the effectiveness of the anti-rabies vaccination is available at the bottom of the “Approved rabies serology laboratories” page of the ec.europa.eu website: https://ec.europa.eu/food/animals/pet-movement/approved-labs_en.

News from laboratories & International Institutions
News related to the EURL for rabies laboratory network and rabies community

Policy update on lifesaving rabies immunization
[Relayed from www.who.int] “On 18 October 2017, the Strategic Advisory Group of Experts (SAGE) on Immunization approved all of the recommendations proposed by the SAGE working group on rabies, as an update to the current WHO position paper on rabies immunization based on new evidence and experience in programme implementation. SAGE guides progress on global strategies and policies regarding vaccine-preventable diseases. A SAGE rabies working group was established in July 2016 to review new evidence that would merit updating of the 2010 WHO position paper on rabies vaccines. The working group conducted systematic reviews of published and unpublished literature, and assembled data and programme experience from countries to review options for pre-exposure and post-exposure immunization. […] (Read full article on www.who.int…)

In the spotlight: the National Rabies Control Programme of the Ministry of Agriculture in Tunisia
[Relayed from www.rr-africa.oie.int] On September 25 and 26, 2017, the OIE Sub-Regional Representation for North Africa organised a “Workshop on the Rabies National Control Programme of the Tunisian Ministry of Agriculture: feedback from the field, state of play and ways of improvement”, held in Tunis, Tunisia, in collaboration with the Tunisian Veterinary Services (Directorate-General of Veterinary Services). The workshop, funded by the European Union, represented by the European Commission and the European Parliament, as part of the project to Strengthen Veterinary Services in Developing Countries (SVSDC), was aimed at the decentralised offices of the Ministry of Agriculture involved in the fight against rabies. […] (Read full article on rr-africa.oie.int…)

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Agenda

Forthcoming events

2018
01-04 March 18th International Congress on Infectious Diseases (ICID), Buenos Aires (Argentina)
20-22 March 6e Better Foods for Better Health Séminaire, Veyrier-du-Lac (France)
19-20 April 4th Global Summit on Virology and Vaccines Conference, Valencia (Spain)
23-25 April 4th MEEREB Meeting, Veyrier-du-Lac (France)
24-26 April OIE Sub-Regional Conference on rabies in southern Africa, Windhoek (Namibia)

May
02-04 May Partner for rabies prevention, Wolfsberg (Switzerland)

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Rabies notifications

22 Nov 2017 Morocco
Rage, canine - Maroc (07): identification, vaccination, et sterilisation des chiens et chats errants

20 Nov 2017 Morocco
Rabies - Morocco (06): dogs slaughter banned / الكلاب المنفولة: (6): الكلب - الكلاب
Rage, canine - Maroc (06): l'abattage des chiens sera bientôt banni

18 Nov 2017 Israel
Rabies - Israel (04): animal, spread, human exposure / الحيوان، انتشار، توظيف انسان

16 Nov 2017 Russia
Бешенство, человек - Россия (Владимирская область)

06 Nov 2017 Israel
Rabies - Israel (03): animal, spread, alert / الحيوان، انتشار، التحذير

21 Oct 2017 France
Rabies - France: (Auvergne - Rhône-Alpesboy) ex Sri Lanka, canine, human exp. / شكوك حالة إصابة إنسان

21 Oct 2017 Tunisia
Rage, canine, humaine - Tunisie (03): (Nabeul), incidence / الوباء في الأبقار (3): لعبة - الكلاب

15 Oct 2017 Algeria
Rabies (43): Algeria (TO) comment

13 Oct 2017 Africa, Asia, Europe
Rabies (42): Africa, Asia, Europe, human, animal

12 Oct 2017 Egypt
Rabies - Egypt (03): (Al Wadi Al Jadid) herbivores, OIE / الحيوانات الوعائية عامة (ة): (4) : وادي - الكلاب
Rabies, Egypt, (Follow-up report No. 2)
06 Oct 2017  ✭ Algeria  
Rabies - Algeria (05): (Tizi Ouzou) distribution of cases / الداء الكلب - الجزائر (5): (تيزي وزو) توزيع الحالات
Rage, canine, humaine - Algérie (05): (Tizi Ouzou), distribution des cas

02 Oct 2017  ✭ Algeria  
Rabies - Algeria (04): (Jijel) disease situation / الداء الكلب - الجزائر (4): (جيجل) حالة انتشار
Rage, canine, humaine - Algérie (04) : (Jijel) situation

30 Sep 2017  ✭ Morocco  
Rabies - Morocco (05): achievements and constraints / الداء الكلب - المغرب (5): الإنجازات والقيود
Rage, canine, humaine - Maroc : état des lieux

28 Sep 2017  ✭ World Rabies Day 2017 & rabies situation assessment  
Rabies vaccination - research: unexpected benefits / عالمية الداء الكلب 2017 & تقييم حالة الداء الكلب
World Rabies Day 2017: eradication prospects discussed / عالمية الداء الكلب 2017: الاحتمالات المتوقعة للقضاء
Rabies - worldwide (02): is global eradication of human cases achievable by 2030? / الداء الكلب - أمام كل أنحاء العالم : هل يمكن القضاء على الحالات البشرية بحلول عام 2030؟

26 Sep 2017  ✭ Tunisia  
Rabies: In the spotlight : the National Rabies Control Programme of the Ministry of Agriculture in Tunisia / الداء الكلب - تونس : في聚光灯下 : برنامج السيطرة على الداء الكلب من وزارة الزراعة في تونس

26 Sep 2017  ✭ Tunisia  
Rabies - Tunisia (2): no human cases in 2017 / الداء الكلب - تونس (2) : لا يوجد حالات بشرية في عام 2017
Rage, canine, humaine - Tunisie: aucun cas humains en 2017

Euc.europa.eu website rabies notifications / (Total cases of rabies reported in Europe from 01/01/2017 to 21/11/2017) / https://ec.europa.eu/food/sites/food/files/animals/docs/ad_adns_outbreaks-per-disease.pdf (This link is also valid for other diseases).

### Rabies publications

A selection of publications on rabies, diagnosis, virology and vaccinology.

#### Animal and human rabies

**Modeling of a procedure for unmasking the foxes during activities on the elimination of biosafety threats related to rabies**

http://journals.uran.ua/eejet/article/view/109868

**Second case of European bat lyssavirus type 2 detected in a Daubenton's bat in Finland**

https://actavetscand.biomedcentral.com/articles/10.1186/s13028-017-0331-y

**Substantial reductions in rabies, but still a lot to be done**

http://www.thelancet.com/journals/langlo/article/PIIS2214-109X(17)30342-X/abstract

#### Diagnosis, virology and vaccinology

**Comparative pathogenesis of rabies in bats and carnivores, and implications for spillover to humans**

http://www.thelancet.com/journals/laninf/article/PIIS1473-3099(17)30574-1/supplemental

**Comparison of a novel human rabies monoclonal antibody to human rabies immunoglobulin for post-exposure prophylaxis: A phase 2/3 randomized, single blind, non-inferiority, controlled study**

Development and characterization of novel chimeric monoclonal antibodies for broad spectrum neutralization of rabies virus
http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0186380

Development and evaluation of a RT-qPCR assay for fast and sensitive rabies diagnosis

Development and validation of an immunoperoxidase antigen detection test for improved diagnosis of rabies in Indonesia
http://journals.plos.org/plosntds/article?id=10.1371/journal.pntd.0006079

Development of molecular confirmation tools for swift and easy rabies diagnostics
https://virologyj.biomedcentral.com/articles/10.1186/s12985-017-0853-y

Efficacy of rabies vaccines in dogs and cats and protection in a mouse model against European bat lyssavirus type 2
https://actavetscand.biomedcentral.com/articles/10.1186/s13028-017-0332-x

Efficacy of the oral rabies virus vaccine strain SPBN GASGAS in foxes and raccoon dogs

Enhanced Immune Response to Rabies Viruses by the Use of a Liposome Adjuvant in Vaccines

Evaluation of the efficacy of the Japanese rabies RC-HL strain vaccine in domestic dogs using past and present data: Prediction based on logistic regression and meta-analysis

Factors influencing the outcome of primary immunization against rabies in young dogs

Factors influencing the success of aerial rabies vaccination of foxes
https://www.nature.com/articles/s41598-017-14615-2

Generation of a novel live rabies vaccine strain with a high level of safety by introducing attenuating mutations in the nucleoprotein and glycoprotein

A genetically modified rabies vaccine (ERAGS) induces protective immunity in dogs and cattle

Infection of neuroblastoma cells by rabies virus is modulated by the virus titer

Inhibition of rabies virus replication by interferon-stimulated gene 15 and its activating enzyme UBA7

Large protein as a potential target for use in rabies diagnostics
Molecular function analysis of rabies virus RNA polymerase L protein by using an L gene-deficient virus
http://jvi.asm.org/content/91/20/e00826-17

Near-infrared fluorescent protein iRFP720 is optimal for in vivo fluorescence imaging of rabies virus infection
http://jgv.microbiologyresearch.org/content/journal/jgv/10.1099/jgv.0.000950.v1

A novel approach to a rabies vaccine based on a recombinant single-cycle flavivirus vector
http://www.sciencedirect.com/science/article/pii/S0264410X17311532

An optimized HMGB1 expressed by recombinant rabies virus enhances immunogenicity through activation of dendritic cells in mice

Oral vaccination of wildlife using a vaccinia-rabies-glycoprotein recombinant virus vaccine (RABORAL V-RG®): A global review
https://veterinaryresearch.biomedcentral.com/articles/10.1186/s13567-017-0459-9

Phosphoprotein Gene Contributes to the Enhanced Apoptosis Induced by Wild-Type Rabies Virus GD-SH-01 In Vitro

Production of Recombinant Rabies Virus Glycoprotein by Insect Cells in a Single-Use Fixed-Bed Bioreactor

Protection of bats (Eptesicus fuscus) against rabies following topical or oronasal exposure to a recombinant raccoon poxvirus vaccine
http://journals.plos.org/plosntds/article?id=10.1371/journal.pntd.0005958

Phosphoprotein Gene Contributes to the Enhanced Apoptosis Induced by Wild-Type Rabies Virus GD-SH-01 In Vitro

Quantitative analysis of anti-rabies antibodies in dogs clinically suspected for rabies
http://www.indianjournals.com/IJVP.aspx?target=ijvpjvp&volume=41&issue=3&article=009

A Self-Killing Rabies Virus That Leaves a Trace on the DNA

Single visit rabies pre-exposure priming induces a robust anamnestic antibody response after simulated post-exposure vaccination: results of a dose-finding study
https://academic.oup.com/jtm/article/24/5/tax033/3954783