EURL news

EU NRL Annual Community review of tests related to rabies: 2014 data
Data collection ongoing

Each beginning of year, the EURL laboratory network is invited to participate in the annual overview of tests performed in the NRLs. This work ensures a continuous monitoring of rabies test results carried out in the Community... Read more

Publication of the Comparison of different Real Time PCR methods study

In 2013, the EURL initiated a cross-platform evaluation of the PCR performance of ten commercial SYBR Green® kits (five two-step kits and five one-step kits) using real-time SYBR Green PCR assays (one-step and two-step methods). We found that the optimised one-step PCR assays had a higher detection sensitivity than the optimised two-step assays regardless of the machine used as well as the pivotal influence of the thermocycler on PCR performance, as well as that of the master mixes... Read more

7th workshop for EU NRL rabies - Registration open

The annual meeting for the EURL for rabies will take place this year in Zagreb, Croatia. The meeting will be held on the same basis than the last one, over 2 half days, on 27th May afternoon and 28th May 2015 morning. Registration is currently ongoing. The agenda will include talks from the National Reference Laboratories and the EURL on molecular biology analysis for rabies diagnosis and the ongoing standardisation of these methods at a European level. The results of... Read more

News from laboratories

Death of Dr. Rybakov

This is with much sorrow that we heard of Dr. Rybakov’s death last 26 February 2015. Dr. Rybakov, from the FGBI Federal Centre for Animal Health “ARRIAH” laboratory of Vladimir, Russia, was deeply involved in rabies control and in studies of field as well as in vaccine rabies virus characterisation in Russia. He made a lot for rabies science in Russia and his death is a huge loss for his country and for rabies knowledge improvement. We address our most sincerest condolences to his family and to all his relatives.

In the spotlight

Rabies Laboratory of the Scientific Institute of Public Health (WIV-ISP, Brussels)

The Rabies Laboratory of the Scientific Institute of Public Health (WIV-ISP, Brussels) is officially recognized as the National Reference Centre for Human Rabies (NRC Rabies; financed by the National Institute for health and Invalidity Insurance, RIZIV-INAMI) and the National Reference Laboratory for Animal Rabies (NRL Rabies; recognized by the Federal Agency for the Safety of the Food Chain, FAVV-AFSCA, and OIE). The lab is also recognized by the European Commission to perform rabies serology in pets in the frame of travel. The rabies laboratory is embedded... Read more
# Agenda

## Forthcoming events

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<th>Date</th>
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<tr>
<td>15-18 March</td>
<td>Third International One Health Conference 2015, Amsterdam (the Netherlands)</td>
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<td>7-9 April</td>
<td>3rd Middle East and Eastern Europe Rabies Expert Bureau Meeting, Lyon (France)</td>
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<td>14-16 April</td>
<td>2015 Spring International Conference on Forestry and Animal Husbandry (FAH-S), Beijing (China)</td>
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<tr>
<td>16-17 April</td>
<td>OIE 2015 Regional Rabies Scientific Conference, Wuhan, China</td>
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<tr>
<td>22-24 April</td>
<td>Vth International Veterinary Congress, Moscow (Russia)</td>
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<td>5-8 May</td>
<td>Partners for Rabies Prevention meeting 2015, Wolfsberg (Switzerland)</td>
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<td>7-28 May</td>
<td>7th Workshop for rabies EU NRL, Zagreb (Croatia)</td>
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<td>8-10 July</td>
<td>Infectious Diseases World Summit 2015, Boston, MA (USA)</td>
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<tr>
<td>14-17 August</td>
<td>3rd International Southeast Asian Bat Conference, Sarawak (Malaysia)</td>
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<tr>
<td>31 Aug.-2 Sept.</td>
<td>OMICS Group Global American Veterinary Summit, Florida (USA)</td>
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<tr>
<td>4-8 October</td>
<td>26th International Conference on Rabies in the Americas (RITA), Fort Collins, Co., USA</td>
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# Rabies notifications

- **28 Feb 2015 ★ Tunisia**
  

- **11 Feb 2015 ★ Israel**
  
  

- **09 Jan 2015 ★ Slovakia**
  
  

# Rabies publications

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

**Animal and human rabies**

The dynamics of fox (Vulpes vulpes L.) populations in selected hunting regions of the central-eastern Poland in relation to effectiveness of rabies vaccination.


Rabies in Podkarpackie voivodeship between 2011 and 2012.


Mass vaccination of dogs, control of canine populations and post-exposure vaccination – necessary but not sufficient for achieving childhood rabies elimination.


**Australian bat lyssavirus: implications for public health.**


Knowledge, attitudes and practices regarding rabies and exposure to bats in two rural communities in Guatemala.
http://rd.springer.com/article/10.1186%2Fs13104-014-0955-1

Do the college students know about rabies and its prevention: a study from a university of North India.

The One Health approach for the management of an imported case of rabies in mainland Spain in 2013.
http://www.eurosurveillance.org/ViewArticle.aspx?ArticleId=21033

Cost differences between complete and incomplete post-exposure courses of rabies vaccination.

Do open garbage dumps play a role in canine rabies transmission in Biyem-Assi health district in Cameroon?
http://www.infectionecologyandepidemiology.net/index.php/iee/article/view/26055

Surveillance of human rabies by national authorities – A global survey.
http://onlinelibrary.wiley.com/doi/10.1111/zph.12183/abstract;jsessionid=2D78D1DDF6247C2D695D61B0B1FDBC4B.f03t02

Comparison of mark-resight methods to estimate abundance and rabies vaccination coverage of free-roaming dogs in two urban areas of south Bhutan.

Rabies encephalitis in a child: a failure of rabies post exposure prophylaxis?
Tinsa F. et al., BMJ Case Reports, 2015; doi:10.1136/bcr-2014-206191
http://casereports.bmj.com/content/2015/bcr-2014-206191.abstract

Rabies surveillance in bats in Northwestern State of São Paulo.
Biting back: Vaccine efforts redoubled as rabies deadline looms.
http://www.nature.com/nm/journal/v21/n1/full/nm0115-8.html

Rabies encephalitis.
Co S.J. et al., Radiographics, 2015, 35, 1.
http://pubs.rsna.org/doi/abs/10.1148/rg.351140035

The prevention and management of rabies.
Crowcroft N.S. et al., BMJ, 2015, 350.
http://www.bmj.com/content/350/bmj.g7827.long

Transient expression of rabies virus G-glycoprotein using BHK-21 cells cultured in suspension.
http://rd.springer.com/article/10.1007/s10529-015-1787-3#

Rhabdovirus glycoproteins.
http://www.worldscientific.com/doi/abs/10.1142/9789814635349_0004

30 years of rabies vaccination with Rabipur: a summary of clinical data and global experience.

The importance of rabies immunoglobulin in postexposure prophylaxis.
http://www.sciencedirect.com/science/article/pii/S073567571500039X#

Rabies virus vaccines.

Parainfluenza virus 5 expressing the G protein of rabies virus protected 2 mice after rabies virus infection.
http://jvi.asm.org/content/early/2014/12/26/JVI.03656-14.abstract

Rabies virus replication and pathogenesis.

Review on dog rabies vaccination coverage in Africa: A question of dog accessibility or cost recovery?
http://journals.plos.org/plosntds/article?id=10.1371/journal.pntd.0003447

A case report of post Rabipur (purified chick embryo rabies vaccine) acute disseminated encephalomyelitis.

Lymph node but not intradermal injection site macrophages are critical for germinal center formation and antibody responses to rabies vaccination.
http://jvi.asm.org/content/early/2014/12/18/JVI.03409-14.abstract
Comparative study on the immunogenicity and safety of a purified chick embryo cell rabies vaccine (PCECV) administered according to two different simulated post exposure intramuscular regimens (Zagreb versus Essen).

Cross-neutralization of antibodies induced by vaccination with Puri fied Chick Embryo Cell Vaccine (PCECV) against different Lyssavirus species.

Complete genomic sequence of European Bat Lyssavirus 1, isolated from Eptesicus isabellinus in Spain.
Marston D. et al., Genome Announcements, 2015, 5, n°1, 2 p.
http://genomea.asm.org/content/3/1/e01518-14.abstract

Postgenomics biomarkers for rabies. The next decade of proteomics.
http://online.liebertpub.com/doi/abs/10.1089/omi.2014.0127

Long-term toxicity of freeze-dried rabies vaccine for human use (Vero cells) for intramuscular injection in machins.
http://www.scopus.com/record/display.url?eid=2-s2.0-84922366199&origini=SingleRecordEmailAlert&tGid=9D0314A72400F2060EFBA0BB1BE410.CnviAmOODVwpVrjSeqQ%3a12

Comparison of anamnestic responses to rabies vaccination in dogs and cats with current and out-of-date vaccination status.
http://avmajournals.avma.org/doi/abs/10.2460/javma.246.2.205

A retrospective epidemiological study of delay for updated Thai red cross intradermal anti-rabies vaccination schedule amongst animal bite cases attending ARV clinic at a tertiary care centre.
http://www.ijcmph.com/?mno=176179

Cross-platform evaluation of commercial real-time SYBR Green RT-PCR kits for sensitive and rapid detection of European bat lyssavirus type 1.
http://www.hindawi.com/journals/bmri/2015/839518/abs/

A preliminary study of recombinant human interferon-α-2a activity against rabies virus in murine model.
http://www.ijmm.org/article.asp?issn=0255-0857;year=2015;volume=33;issue=1;spage=132;epage=135;aulast=Roy;type=0

Establishing conditions for the storage and elution of rabies virus RNA using FTA® cards.
https://www.jstage.jst.go.jp/article/jvms/advpub/0/advpub_14-0227/_pdf

Chimeric rabies SADB19-VSVg-pseudotyped lentiviral vectors mediate long-range retrograde transduction from the mouse spinal cord.
Schoderboeck L. et al., Gene Therapy, 2015, sous presse.
http://www.nature.com/gt/journal/vaop/ncurrent/full/gt20153a.html

Comparison of immunochromatographic diagnostic test with heminested reverse transcriptase polymerase chain reaction for detection of rabies virus from brain samples of various species.
Development of an automated dispenser for the delivery of medicinal or vaccine-laden baits to raccoons (Procyon lotor).
http://www.jwildlifedis.org/dol/abs/10.7589/2014-08-211

Molecular mechanisms of raccoon rabies virus progression in its natural host.
http://www.scirp.org/journal/PaperInformation.aspx?paperID=52621#VPWPWmSzwwNE

Comparative immune responses of children after intradermal and intramuscular rabies vaccination.

Unusual ultrastructural findings in dendrites of pyramidal neurons in the cerebral cortex of rabies-infected mice.
https://peerj.com/preprints/847v1/

Cellular immune response following pre-exposure and postexposure rabies vaccination by intradermal and intramuscular routes.

Optimization and verification of condition for determination of rabies virus titer by direct immunofluorescence assay.
http://www.scopus.com/record/display.url?eid=2-s2.0-84922352719&origin=SingleRecordEmailAlert&bxGid=D85867010A16D00CF3D1C6D56F537B6E.fM4vPBipdL1BpirDq5Cw%3a1#

Rabies: the clinical features, management and prevention of the classic zoonosis.
http://www.clinmed.rcpjournal.org/content/15/1/78.abstract

Oral immunization of mice with recombinant raccoons vaccine strain (ERAG3G) induces complete protection.

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