



# Training of village boar keepers and veterinary workers on Ban boar semen collection and semen quality evaluation in northwest Vietnam

<sup>2</sup>International Livestock Research Institute


©2020

The Program thanks all donors and organizations which globally support its work through their contributions to the [CGIAR Trust Fund](#).



This publication is copyrighted by the International Livestock Research Institute (ILRI). It is licensed for use under the Creative Commons Attribution 4.0 International Licence. To view this licence, visit <https://creativecommons.org/licenses/by/4.0>.

Unless otherwise noted, you are free to share (copy and redistribute the material in any medium or format), adapt (remix, transform, and build upon the material) for any purpose, even commercially, under the following conditions:

 **ATTRIBUTION.** The work must be attributed, but not in any way that suggests endorsement by ILRI or the author(s).

**NOTICE:**

For any reuse or distribution, the licence terms of this work must be made clear to others.

Any of the above conditions can be waived if permission is obtained from the copyright holder.

Nothing in this licence impairs or restricts the author's moral rights.

Fair dealing and other rights are in no way affected by the above.

The parts used must not misrepresent the meaning of the publication.

ILRI would appreciate being sent a copy of any materials in which text, photos etc. have been used.

*Patron: Professor Peter C Doherty AC, FAA, FRS*

*Animal scientist, Nobel Prize Laureate for Physiology or Medicine—1996*

Box 30709, Nairobi 00100 Kenya  
Phone +254 20 422 3000  
Fax +254 20 422 3001  
Email [ilri-kenya@cgiar.org](mailto:ilri-kenya@cgiar.org)

[ilri.org](http://ilri.org)  
*better lives through livestock*

ILRI is a CGIAR research centre

Box 5689, Addis Ababa, Ethiopia  
Phone +251 11 617 2000  
Fax +251 11 667 6923  
Email [ilri-ethiopia@cgiar.org](mailto:ilri-ethiopia@cgiar.org)

*ILRI has offices in East Africa • South Asia • Southeast and East Asia • Southern Africa • West Africa*

Name of training event	<b>Training of village boar keepers and veterinary workers on Ban boar semen collection and semen quality evaluation in northwest Vietnam</b>
Aim of the course	This course aimed to train women and men Ban boar keepers and veterinarians in semen collection from Ban boars, as well as quality assessment and preservation of the semen after collection so that it can be used in artificial insemination.
Dates	7-day training courses from 5–11 November 2020.
Venue(s)	Agricultural service centre of Mai Son district; Khoa village and Mon 1 village
Instructors and their affiliation	<ul style="list-style-type: none"> <li>▪ Trinh Hong Son, Pig Breeding Research Center of the National Institute of Animal Science (NIAS), Vietnam</li> <li>▪ Le Van Hao, Pig breeding Research Center of NIAS, Vietnam</li> <li>▪ Le Thi Thanh Huyen, Department of Livestock Systems and Environmental Research, NIAS, Vietnam</li> </ul>
Participant information, including number by gender	18 participants comprising village boar keepers and veterinary workers, of which three (17%) were of H'Mong ethnicity and 15 (83%) of Thai ethnicity. 12 (67%) were female and six (33%) were male.
Linked project or program	This training was offered under the Livestock-led interventions towards equitable livelihoods and improved environment in the Northwest of Vietnam (Li-Chan) project, implemented by partners of the CGIAR Research Program on Livestock. See <a href="https://livestock.cgiar.org/news/community-engagement-key-success-livestock-systems-transformation-project-northwest-vietnam">https://livestock.cgiar.org/news/community-engagement-key-success-livestock-systems-transformation-project-northwest-vietnam</a> for more details.
Funder	Livestock CRP
Course summary or agenda	<p>The training was one of a series around cattle and pig genetics implemented as part of the Li-Chan project. The training series comprised that on:</p> <ul style="list-style-type: none"> <li>(a) Cattle and pig breeds, breeding and artificial insemination</li> <li>(b) Ban boar semen collection and semen quality evaluation (this training)</li> <li>(c) Artificial insemination procedure in pigs</li> <li>(d) Artificial insemination procedure in cattle</li> </ul> <p>This course aimed to train women and men Ban boar keepers, and veterinarians, in semen collection from Ban boars, as well as quality assessment and preservation of the semen after collection, such that it can be used in artificial insemination. The training course comprised two days of theoretical training and five days of practical training. During the practical training a number of Ban boars (owned by some of the trainees) were also trained for semen collection.</p>

**Theoretical training agenda**

Time	Activity
<b>Day 1</b>	
8.15–8.30	Register and sign the consent
8.30–8.40	Introduction of the course
8.40–9.45	How to choose boars for breeding and training of semen collection for AI
9.45–10.00	Tea break, photo
10.00–11.30	Training techniques of boar jumping dummy
11.30–13.00	Lunch
13.15–14.30	Techniques of semen collection from boar
14.30–15.45	How to prepare pig semen
15.45–17.00	How to store pig semen
<b>Day 2</b>	
8.15–10.45	Test and evaluate the quality of pig semen
10.45–11.00	Tea break
11.00–11.30	How to prepare and preserve the buffer for semen solution
11.30–13.00	Lunch
13.15–17.00	Visit village Ban boar keepers to select boars to train

**Practical training**

Five days on farms of three village Ban boar keepers (two in Khoa village, Chieng Chung commune; and one in Mon 1 village, Chieng Luong commune) to train the boars successfully for semen collection as well as on farm testing and evaluation of the collected semen.

Links to training material, if available

Hard copies of the training materials in Vietnamese were distributed to all participants

Any other remarks

- Three Ban boars have been successfully trained for semen collection (two in Chieng Chung and one in Chieng Luong); a village boar male keeper and two couples of village boar keepers (including two women) performed semen collection successfully; some others also did. This is the first time Ban semen has been collected, of which we are aware, in Son La province.
- Three pig dummies, varied equipment for semen collection, buffer chemical, etc. were provided to the boar keepers as gift for allowing their boars to be used in the training.
- All boar keepers expressed willingness to collecting semen from their boars for artificial insemination to avoid African Swine Fever (two of them had already used f collected semen doses to perform artificial insemination on Ban sows).
- Female farmers were very interested in the practices.

Photos

Training Ban boars for semen collection



Contact  
person(s)  
for more  
information

Le Thi Thanh Huyen, National Institute of Animal Science, Vietnam

Email: [lehuyen1973@yahoo.com](mailto:lehuyen1973@yahoo.com)

Karen Marshall, International Livestock Research Institute

Email: [kmarshall@cgiar.org](mailto:kmarshall@cgiar.org)