



# PulseNet International Communication



**Peter Gerner-Smidt**

PulseNet International Steering Committee Chairman  
Centers for Disease Control and Prevention (CDC)  
Atlanta, GA USA

**Annual PulseNet Update Meeting**

**St. Louis, MO**

**April 15-18, 2008**

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# PulseNet International Communication

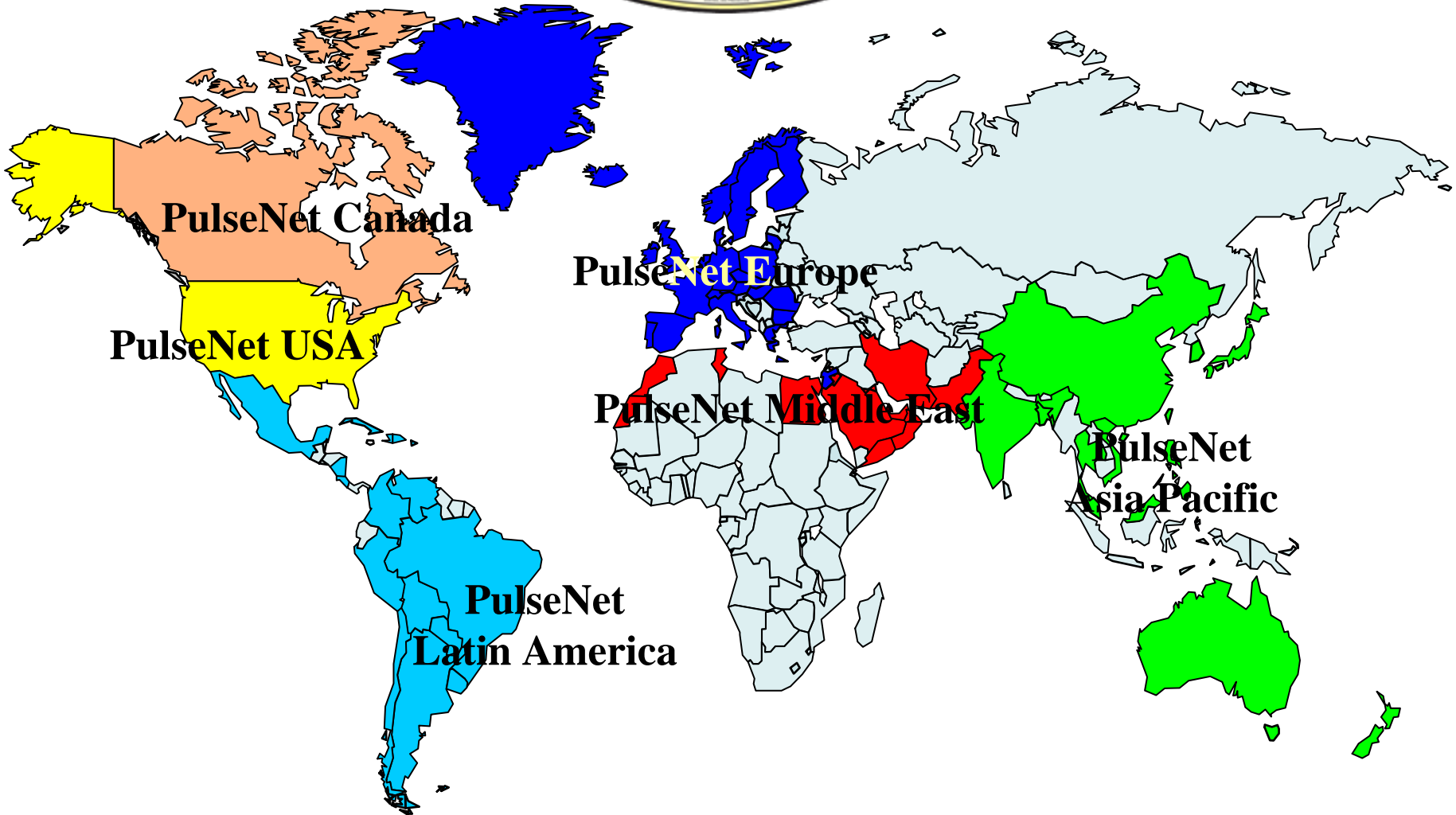


- What is



- Communication tools
- Global databases
- Outbreak investigations

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# PulseNet International Website: [www.pulsenetinternational.org](http://www.pulsenetinternational.org)

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PulseNet International



**The International Molecular Subtyping Network  
for Foodborne Disease Surveillance**

USA, Canada, Europe, Asia Pacific, Latin America, Middle East



Home
Networks
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Technical Info
Projects
Publications
Events & Links

An information source for the public and PulseNet International participants

**News and Updates**

*Outbreak of Salmonella Senftenberg linked to consumption of fresh Basil from Israel* [more](#)

*First Regional PFGE Training Workshop held December 2007, Cairo, Egypt* [more](#)

*Fifth Annual Meeting for PulseNet Asia Pacific, February 2008, Kolkata, India* [more](#)

*PulseNet International Coordinators Reports due March 31st, 2008*

*Next PulseNet USA meeting, St Louis, April 2008* [more](#)

*First PulseNet International Steering Committee Meeting, June 2008, Halifax, Canada*

**Vision:**  
Worldwide regional networks utilizing standardized identification and isolate characterization methods and sharing information in real-time to provide early warning on foodborne disease outbreaks, emerging foodborne infections, and acts of food bioterrorism.

**Mission:**  
To reduce the global burden of foodborne illnesses.

**Objectives:**

- To participate in the investigation of outbreaks of foodborne infections and to facilitate early recognition of foodborne disease clusters that may represent common source outbreaks through molecular surveillance of infections at the global level by:
  - Partnering with reference laboratories throughout the world
  - Building capacity for molecular surveillance of foodborne infections
- To collaborate on the development, validation and implementation of internationally standardized subtyping methods to be used in the networks
- To perform collaborative studies on the geographic distribution and spread of different clones of foodborne pathogens



The International Molecular Subtyping Network for Foodborne Disease Surveillance  
USA, Canada, Europe, Asia Pacific, Latin America, Middle East  


**Quick links**

[PulseNet International Coordinator](#)

[PulseNet International Steering Committee](#)

[PulseNet Partners and Affiliates](#)

[Contacts](#)



Database match!

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# Listservs

- Regional Listservs in USA, Canada, Latin America, Europe & Asia Pacific
- PulseNet International Forum
  - Hosted by PulseNet Canada
  - Access restricted to
    - PulseNet International Steering Committee members
    - PulseNet International WG members
  - Cluster alerts, Project related issues, Announcements

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# PulseNet International Forum



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## PulseNet International Collaboration Centre

- Collaboration Centres
- Collaboration Centre Specific Resources
  - Dashboard
  - Discussion Board
  - Forums
  - My Settings
- News Board
- Epi-Assist
- Links Manager
- Group Notification
- Documents Manager
- Meeting Manager

### PulseNet International

» [PulseNet International](#)

Forums: 12 Last Post: Mar 14, 2008 2:50 PM

Forum	Topics / Messages	Last Post
<a href="#">Outbreaks and Urgent Notifications</a>	9 / 12	Mar 14, 2008 2:50 PM
<a href="#">PFGE Protocols</a>	0 / 0	May 15, 2007 10:46 AM
<a href="#">BioNumerics and Networks</a>	0 / 0	May 15, 2007 10:46 AM
<a href="#">Shigella Flexneri Working Group</a>	1 / 1	May 17, 2007 4:50 PM
<a href="#">PulseNet International Update Meeting 2008 - Planning</a>	2 / 5	Dec 27, 2007 9:14 AM
<a href="#">PulseNet QA/QC</a>	1 / 1	Jan 17, 2008 10:52 AM
<a href="#">Equipment and Reagents</a>	1 / 2	Jul 24, 2007 1:56 AM
<a href="#">Global Typhi Database</a>	0 / 0	May 15, 2007 1:11 PM
<a href="#">Alternative Subtyping</a>	0 / 0	May 17, 2007 4:40 PM

Welcome: [Peter Gerner-Smidt](#)

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### CNPHI News Console

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#### ProMED News

April 12, 2008

[PRO/AH/EDR> Tuberculosis, MDR, XDR - Peru](#)

[PRO/AH/EDR> Meningitis, meningococcal - Burkina Faso \(02\): vaccinated areas](#)

### CNPHI Collaboration Centre Console

The following summary shows the meetings in ALL of the Collaboration Centres that you are associated to. This summary offers a quick view of the meetings without having to browse through each Centre individually.

#### My Meeting Summary

Year: 2008 Month: April VIEW

← Previous ~April/2008~ Next →

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13



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● <a href="#">Salmonella Bardo in Finland</a>	<a href="#">Susanna Lukinmaa</a> Nov 22, 07 01:31	2	Dec 20, 2007 9:37 AM	<a href="#">High</a> <a href="#">[Change]</a>
● <a href="#">Salmonella Newport in Finland Now 2007</a>	<a href="#">Susanna Lukinmaa</a> Nov 26, 07 08:35	1	Nov 26, 2007 8:35 AM	<a href="#">High</a> <a href="#">[Change]</a>
● <a href="#">PulseNet USA Salmonella Typhimurium Request</a>	<a href="#">Celine Nadon</a> Oct 10, 07 08:36	1	Oct 10, 2007 8:36 AM	<a href="#">Low</a> <a href="#">[Change]</a>
● <a href="#">Salmonella Heidelberg Outbreak in the US</a>	<a href="#">Ahmed Elsedawy</a> Aug 7, 07 09:49	1	Aug 7, 2007 9:49 AM	<a href="#">Medium</a> <a href="#">[Change]</a>
● <a href="#">PulseNet USA Salmonella Schwarzengrund Outbreak Inquiry</a>	<a href="#">Ahmed Elsedawy</a> Jul 13, 07 15:02	1	Jul 13, 2007 3:02 PM	<a href="#">High</a> <a href="#">[Change]</a>
● <a href="#">Salmonella Wandsworth and Salmonella Typhimurium associated with Veggie Boo</a>	<a href="#">Ahmed Elsedawy</a> Jul 13, 07 14:28	1	Jul 13, 2007 2:28 PM	<a href="#">High</a> <a href="#">[Change]</a>
● <a href="#">Salmonella Muenchen Cluster in the</a>	<a href="#">Ahmed Elsedawy</a> Jun 12, 07 12:04	2	Jun 13, 2007 11:13 AM	<a href="#">High</a> <a href="#">[Change]</a>

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# Global databases

- **Global *Salmonella* Typhi Database**
  - Currently 506 entries from 9 countries
  - Jana Austin Master project:
    - Clustering by location of disease acquisition and antimicrobial resistance
- Global databases for
  - *V. cholerae*
  - *V. parahaemolyticus*

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# Outbreak investigations



Alerts through:

- **PulseNet listservs**
- **ECDC alerts**
- **WHO INFOSAN**
- **WHO GSS**

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# Outbreak investigations



- Several PulseNet USA-Canada joint outbreak investigations, e.g. STEC O157 - vehicle ground beef from the Topps plant
- *Shigella sonnei* cases in Denmark and Australia- vehicle baby corn imported from Thailand
- *S. Senftenberg* in Europe – vehicle basil imported from Israel
- *S. Enteritidis* outbreaks in Qatar possibly linked to chicken imported from Brazil
- *V. cholerae* outbreak in Iraq with possible link to an outbreak in Iran. PFGE analysis done at NAMRU-3

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**The data you provide is put  
into good use**

**- Also at the international level**

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# Acknowledgements



# You!



## Disclaimer:

*“The findings and conclusions in this presentation have not been formally disseminated by the Centers for Disease Control and Prevention and should not be construed to represent any agency determination or policy.”*

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