

Stéphanie Simon • André-Patrick Arrigo
● Editors

Small Stress Proteins and Human Diseases

André-Patrick Arrigo, Lab Head, professor

He conducted his thesis and post-doctoral fellowship between the USA and Switzerland. His work led to the characterization of the cellular responses to heat shock and gave the first major elements on small Heat Shock Proteins (now also called, small Stress Proteins). During his post-doctorate, at the Cold Spring Harbor Laboratory of New York, he published an article in *Nature* corresponding to the first article where the term 'proteasome' is used (please see:

<<http://www.nature.com/nature/journal/v331/n6152/abs/331192a0.html;jsessionid=1F75839B73C8AFEB4CEDACA3E24B400C>>).

He became head of Laboratory in France in the early nineties at University Lyon. With his team, he revealed the first evidence of small Stress Proteins action mechanisms to inhibit apoptosis. He also demonstrated the importance of small Stress Proteins in the regulation of the cellular redox homeostasis.

His laboratory is currently ranked 17th in the field of Heat Shock Research (please see

<<http://www.heatshock.net/labs.php>>) and can be considered as one of the best in the research area of small Stress Proteins. The official web site of the laboratory can be consulted through this link:

<http://www.cgmc.univ-lyon1.fr/EN/eq_arrigoEN.php>.

In 1998, he participated at the foundation of the Cell Stress Society International.

Stéphanie Simon, PhD

She obtained her PhD degree in the Lab of Patrick VICART (University Paris 7) who was the first to discover a mutation in a small Stress Protein as responsive of a human disease (please see:

<http://www.nature.com/ng/journal/v20/n1/abs/ng0998_92.html>).

She had worked in the Lab of Dr. Rainer BENNDORF (University of Michigan) who discovered in 2001 a new small Stress Protein (HspB8 or Hsp22) that is very important for human health and wrote the preview in *Nature Genetics* when mutations in HspB8 and HspB1 were described in Neuropathies (please see:

<<http://www.jbc.org/cgi/content/full/276/29/26753> and

<http://www.nature.com/ng/journal/v36/n6/abs/ng0604-547.html>>).

Since June 2007, Stéphanie Simon has worked in André-Patrick Arrigo's laboratory (University Lyon 1) as visiting scientist.

Those different positions gave her the opportunities to meet and collaborate with international small Hsps experts (e.g., Lev Goldfarb, Rolf Schröder, Annette Tardieu, Michael Welsh, Adam Hoppe, Jody Martin, Jacques Landry, Robert Tanguay).

Stéphanie Simon and André-Patrick Arrigo are active members of the Cell Stress Society International (please see <<http://www.cellstress.uconn.edu/BMCSSITable.html>>).

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