

## Tuan-Dung NGO (27 years old)

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**Nationality.** Vietnamese

## Biochemical and Biotechnology Engineer PhD in Microbiology

### Competences

<b>Techniques</b>	<ul style="list-style-type: none"><li>▪ <b>Proteomics:</b> Purification, chromatography, SEC-MALLS, CD, biochemical studies of protein-ligand interaction, ELISA, HTRF, Microscale thermophoresis (MST).</li><li>▪ <b>Cellular biology and host-pathogen interaction:</b> Cellular culture, classic fluorescence microscopy and automated microscopy (high-content screening and analysis), fluorimetry, LDH and MTT assays.</li><li>▪ <b>Molecular biology:</b> Cloning, quick change mutagenesis, transformation, PCR, sequencing</li></ul>
<b>Informatics</b>	<ul style="list-style-type: none"><li>▪ <b>Basic:</b> Windows, Microsoft office, Inkscape, ImageJ, Image Lab and SnapGene</li><li>▪ <b>Programming language:</b> R, Rcpp and PHP</li><li>▪ <b>Other:</b> MySQL, HTML, CSS, WordPress, R Markdown and Git control version</li></ul>
<b>Language</b>	<b>Vietnamese:</b> Native <b>French and English :</b> Advanced level (reading, writing and speaking)

### Working experiences

<b>2015- 2018</b> (3 years)	<b>PhD student: PBRC team (ERL5261), BCI laboratory (U1036), BIG, Grenoble</b> <b>Missions:</b> <ul style="list-style-type: none"><li>▪ Study the functioning of the Type III secretion system (T3SS) ATPase PscN in <i>Pseudomonas aeruginosa</i>.</li><li>▪ Identify and characterize chemical compounds inhibiting the interaction of T3SS proteins.</li><li>▪ Test the efficacy of chemical compounds on the protection of eukaryotic cells against infection by <i>P. aeruginosa</i>.</li></ul> <b>Used techniques:</b> <ul style="list-style-type: none"><li>▪ Molecular biology, biochemistry and protein purification.</li><li>▪ Cellular biology, interaction of host-pathogen and automated fluorescence microscopy.</li><li>▪ Data analysis: Excel and R language.</li></ul>
<b>2015</b> (6 month)	<b>Engineer trainee: PBRC team, BCI lab, BIG, Grenoble (Final internship)</b> <b>Mission:</b> <ul style="list-style-type: none"><li>▪ Study the role of the T3SS ATPase in <i>P. aeruginosa</i>.</li></ul> <b>Used techniques:</b> <ul style="list-style-type: none"><li>▪ Molecular biology, Protein expression and purification.</li></ul>
<b>2014</b> (3 month)	<b>Engineer trainee: Insa de Lyon (Internship of 4 years engineer student)</b> <b>Mission :</b> <ul style="list-style-type: none"><li>▪ Evaluate the performance of the UV disinfection reactor / H<sub>2</sub>O<sub>2</sub> for the treatment of water.</li></ul> <b>Used techniques:</b> <ul style="list-style-type: none"><li>▪ Bacterial viability assays, bacterial culture, fluorescence microscopy and HPLC</li></ul>

### Education – Diplomas

<b>2015 - 2018</b>	<b>PhD in microbiology</b> graduated at Doctoral school of Chemistry and Life Sciences of Grenoble.
<b>2010 - 2015</b>	<b>Engineer in Biochemistry and Biotechnology</b> graduated at “Institut National de Science Appliquée (INSA)” in Lyon.

### Hobby et activities

<b>Hobby</b>	<b>Sport :</b> Football, Volley-ball, Tennis <b>Film et cinema</b>
<b>Activities</b>	<ul style="list-style-type: none"><li>▪ Moderator (chairman) of young researcher meetings at BIG institute at CEA-Grenoble</li><li>▪ Member de « Innovdoc », expertise of PhD student in the service of companies. <a href="https://www.innovdoc.org">https://www.innovdoc.org</a></li><li>▪ Personal website: <a href="https://qcjun2191.github.io/index.html">https://qcjun2191.github.io/index.html</a>.</li></ul>

## Supplementary information

### Publications

<b>Submitted in April 2019</b>	<b>Tuan-Dung Ngo.,</b> Sophie Plé., Aline Thomas., Caroline Barette., Antoine Fortuné., Younes Bouzidi., Marie-Odile Fauvarque., Rossimiriam Pereira de Freitas., Flaviane Francisco Hilário., Ina Attree., Yung-Sing Wong., and Eric Faudry. (2019). “ <i>Chimeric protein-protein interface inhibitors allow efficient inhibition of Type III secretion machinery and Pseudomonas aeruginosa virulence</i> ”. ASC Infectious Diseases
<b>Manuscript in preparation</b>	<b>Tuan-Dung Ngo.,</b> Michel Ragno., Caroline Perdu., Bakhos Jneid., Andrea Dessen., Ina Attree., Arne Rietsch., and Eric Faudry. “ <i>The gate-keeper PopN complex acts on the ATPase PscN to regulate the T3SS secretion switch from early to middle substrates in Pseudomonas aeruginosa</i> ”

### Communications

<b>November 2018</b>	<b>Oral communication</b> in the conference of SFM (Société Française Microbiologie), in Paris.
<b>February 2018</b>	<b>Poster communication</b> in the 19 <sup>th</sup> conference of VLM (Vaincre la Mucoviscidose) association, in Paris.
<b>December 2017</b>	<b>Oral communication</b> in the conference of G-RREMI (groupe Régional de Recherche en Microbiologie des Interactions), in Lyon.
<b>February 2017</b>	<b>Oral communication</b> and <b>Poster communication</b> in the « European Young Investigators Meeting 2017 on Cystic Fibrosis », in Paris.
<b>February 2017</b>	<b>Poster communication</b> in the 18 <sup>th</sup> conference of VLM (Vaincre la Mucoviscidose) association, in Paris.
<b>April 2016</b>	<b>Poster communication</b> in the « Type III Secretion System Meeting 2016 », Tubingen, Germany.
<b>February 2016</b>	<b>Poster communication</b> in the 17 <sup>th</sup> conference of VLM (Vaincre la Mucoviscidose) association, in Paris.

### Personal qualities

<b>Humanise</b>	Rigorous, persevering, autonomous
<b>Skill</b>	Spirit of analysis and synthesis

### References

<b>PBRC team (ERL5261), BCI laboratory (U1036), BIG, Grenoble</b>	<ul style="list-style-type: none"> <li>Dr. Eric FAUDRY. E-mail: <a href="mailto:eric.faudry@cea.fr">eric.faudry@cea.fr</a></li> <li>Dr. Ina ATTREE-DELIC. E-mail: <a href="mailto:ina.attree-delic@cea.fr">ina.attree-delic@cea.fr</a></li> </ul>
<b>« Département de Pharmaco-chimie moléculaire, UGA, Grenoble »</b>	<ul style="list-style-type: none"> <li>Dr. Yung-Sing WONG. E-mail: <a href="mailto:yung-sing.wong@univ-grenoble-alpes.fr">yung-sing.wong@univ-grenoble-alpes.fr</a></li> </ul>