



Prof. Ferid Murad

**SIPS 2022, in Honor of Nobel Laureate, Prof. Ferid Murad**

**2022 SIPS**

**Covering Sustainability Pillars :**

- Science, Technology & Industry
- Governance & Management
- Education & Civil Society

**Nov 27 - Dec 1, 2022, Hilton Phuket Arcadia, Thailand**

## **7<sup>th</sup> International Symposium on Sustainable Base-metal Bio-extraction**

**The Symposium is being held under the umbrella of SIPS 2022 covering the following topics:**

- Fundamental aspects of bio-hydrometallurgy;
- Industrial bio-hydrometallurgy (studies, practical aspects and operation);
- Bio-extraction of nutrients out of agro-minerals;
- Microbial ecology and bio-prospecting in natural environments and mining;
- Molecular Genetics and biochemistry of microorganisms
- Biohydrometallurgy as a strategy for remediating contaminated sites;
- Bio-extraction of phosphorus out of iron ores;

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**Featuring 9 Nobel Laureates:**



**Dan Shechtman**  
2011 - Chemistry



**Didier Queloz**  
2019 - Physics



**Stanley Whittingham**  
2019 - Chemistry



**Konstantin Novoselov**  
2010 - Physics



**Aaron Ciechanover**  
2004 - Chemistry



**Avram Hershko**  
2004 - Chemistry



**Kurt Wüthrich**  
2002 - Chemistry



**Ferid Murad**  
1998 - Medicine



**Richard Roberts**  
1993 - Medicine

**Special Address:**



**Luis Echegoyen**  
2020 President  
American Chemical  
Society



**Donna J. Nelson**  
2016 President  
American Chemical  
Society



**Subra Suresh**  
President, NTU  
Singapore  
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Vice President  
European Research  
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