

## CONFERENCIA



### Thomas Penzel

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### ***Sleep medicine and biomedical engineering***

**Abstract:** Insufficient or fragmented sleep has been identified as a public health epidemic. The most prevalent causes include chronic insomnia and obstructive sleep apnea (OSA), which affect almost a billion people. OSA is associated with increased risk of developing a rapidly expanding list of medical comorbidities such as hypertension, cardiac arrhythmias, ischemic heart disease, stroke, diabetes, learning and attention deficits, and depression and mental illness. Biomedical engineering can help in terms of diagnostic devices, analysis of recorded signals, and designing and improving therapeutic equipment as well. New wearables and telemedicine approaches are the latest topics of interest.

Nota: Esta es la conferencia inaugural en el Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB 2022).

**Aula Magna de la Facultad de Medicina**  
**Miércoles 23 de Noviembre de 2022 (12:00)**  
**Organiza: GIR Ingeniería Biomédica**

