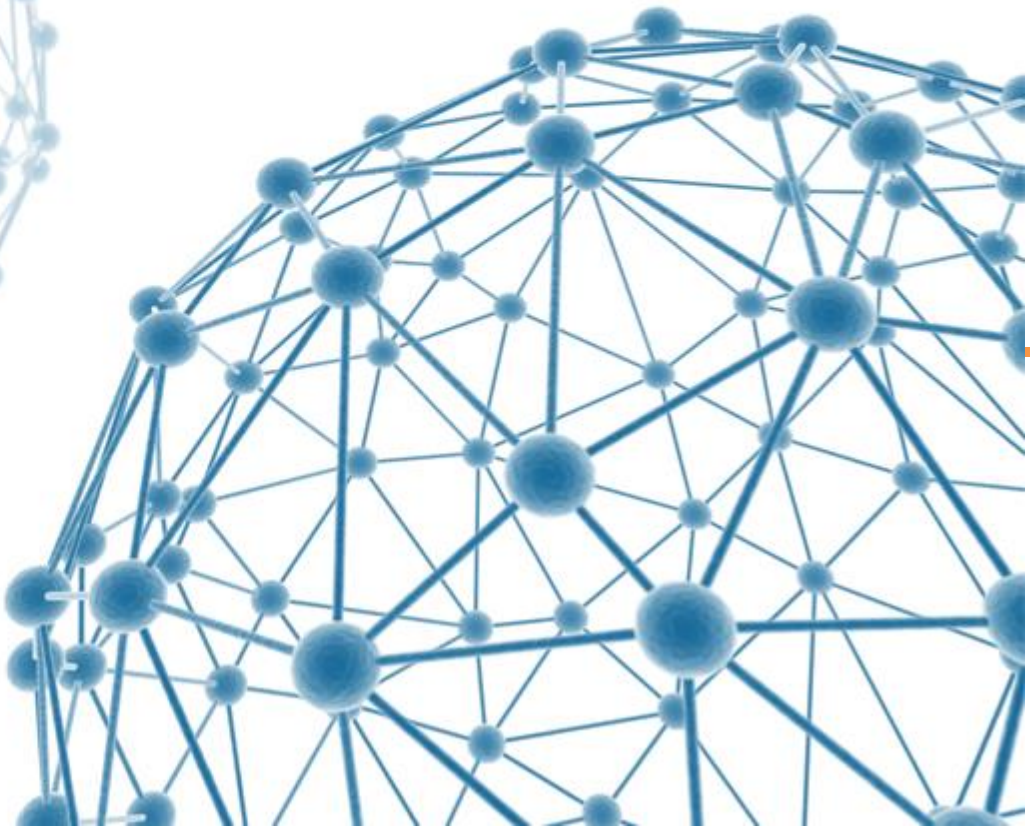


ANAXOMICS – TRACK RECORD



ABOUT US

Anaxomics is a company specialized in Bioinformatics and Systems Biology. Anaxomics offers a unique combination of cutting-edge artificial intelligence developments and the work of a highly skilled team of professionals to provide a wide array of continuously refined services.

Our proprietary technology, TPMS, molecularly models the human (patho)physiology, integrating the information available in the scientific literature and the experimental information generated by each partner or customer, with special emphasis in the clinical translation of results. This allows us to perform in silico experiments such as: (1) Identification of the molecular mechanism 'of action' of a drug or gene/protein, (2) Biomarker discovery (lower false positives thanks to AI), (3) High-throughput data analysis, (4) Drug repositioning, (5) Therapeutic target identification, (6) Mechanistic protein/gene/miRNA/... candidate filtering (de-risking), (7) Clinical trial molecular (re)analysis (e.g. identifying drugs and concomitant disease to avoid for a better efficacy), (8) Patient molecular clustering, and others.

Anaxomics is a privately owned, limited liability company incorporated in Barcelona in 2007, under the laws of Spain and the European Union. Anaxomics is a Small-Medium Enterprise (SME) as recognized by European Union Directives (EC) No 2049/2005. Anaxomics has 15-20 employees, with offices in Barcelona (Spain).

In the last 10 years the company has run multiple projects from clients from Europe, US, Canada and Japan; participated in 11 collaborative projects (including 9 FP7) and is currently participating in 10 H2020 and 2 RIS3CAT projects; more than 50 publications have arisen from our technology.

BACKGROUND

The Company was founded in 2007 by a team of experienced entrepreneurs with a large experience in the drug discovery and pharmaceutical industry. The founders had been working together for more than 15 years as founders and owners of a clinical research company (Infociencia SL) that was merged with a multinational company (Research Pharmaceutical Services Inc) in 2008. The founders have successfully created and managed several other technological start-ups. Besides, the Company has appointed a Scientific Board to help guide research aspects.

GRANTS

- ANAXOMICS-Biotech (2019). SMA-TB: *A novel Stratified Medicine Algorithm to predict treatment responses to host-directed therapy in TB patients.*, H2020-SC1-BHC-14-2019. No. 847762.
- ANAXOMICS-Biotech (2019). DISCOvERIE: *Development, diagnostic and prevention of gender-related Somatic and mental ComorbidityEs in iRritable bowel syndrome In Europe*, H2020-SC1-BHC-01-2019. No. 848228.
- ANAXOMICS-Biotech (2019). RECOGNISED: *Retinal and cognitive dysfunction in type 2 diabetes: unravelling the common pathways and identification of patients at risk of dementia*, H2020-SC1-BHC-01-2019. No. 847749
- ANAXOMICS-Biotech (2019). PROEVLIFECYCLE: *The life cycle of extracellular vesicles in prostate cancer: from biogenesis and homing, to functional relevance.* H2020-MSCA-ITN-2019. No. 860303
- ANAXOMICS-Biotech (2019). SECRET: *Exploitation of the SECRETory pathway for cancer therapy to address European research.*, H2020-MSCA-ITN-2019. No. 859962.
- ANAXOMICS-Biotech (2018). LEGACY: *CeLac and European consortium for a personalized medicine approach to Gastric Cancer.* H2020-SC1-BHC-18-2018 No. 825832.
- ANAXOMICS-Biotech (2018). HELICAL: *HEalth data LInkage for ClinicAl benefit.* H2020-MSCA-ITN-2018 No. 813545.
- ANAXOMICS-Biotech (2017) DRIVE - *Driving next generation autophagy researchers towards translation.* H2020-MSCA-ITN-2017 No. 765912.
- ANAXOMICS-Biotech (2017) COSMIC - *COmbatting disorders of adaptive immunity with Systems MedICine.* H2020-MSCA-ITN-2017 No. 765158.
- ANAXOMICS-Biotech (2016) LIVERHOPE - *Simvastatin and rifaximin as new therapy for patients with decompensated cirrhosis.* H2020-SC1-2016-RTD No: 731875.
- ANAXOMICS-Biotech (2016) DialCat - *La diabetis com accelerador de deteriorament cognitiu i malaltia d'alzheimer: abordatge i adherencia.* Catalonia's Research and Innovation Strategy for Smart Specialisation - RIS3CAT COMRDI15-1-0024.
- ANAXOMICS-Biotech (2016) MICROBIOTA - *Nous ingredients moduladors de la microbiota aplicant biotecnologia òmiques i de big data.* Catalonia's Research and Innovation Strategy for Smart Specialisation - RIS3CAT COMRDI15-1-0029.
- ANAXOMICS-Biotech (2013) TRIGGER - *King of hearts, joints and lungs; periodontal pathogens as etiologic factor in RA, CVD and COPD and their impact on treatment strategies.* (FP7/2007-2013) HEALTH-F3-2012-306029.
- ANAXOMICS-Biotech (2013) SyStemAge - *Early warning signals of ageing in human stem cells and age-related disorders.* (FP7/2007-2013) FP7-HEALTH-2012-306240.
- ANAXOMICS-Biotech (2013) SysMalVac - *Identifying correlates of protection to accelerate vaccine trials: systems evaluation of two models of experimentally induced immunity to malaria* (FP7/2007-2013) FP7-HEALTH-F4-2012-305869.
- ANAXOMICS-Biotech (2013) CombiMS - *A novel drug discovery method based on Systems Biology: Combination therapy and biomarkers for multiple sclerosis.* (FP7/2007-2013) HEALTH-F4-2012-305397.
- ANAXOMICS-Biotech (2012) RAPID - *Rheumatoid Arthritis and Periodontal Inflammatory Disease.* (FP7/2007-2013) PITN-GA-2011-290246.
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1. Artigas, L., M. Coma, P. Matos-Filipe, J. Aguirre-Plans, J. Farres, R. Valls, N. Fernandez-Fuentes, J. de la Haba-Rodriguez, A. Olvera, J. Barbera, R. Morales, B. Oliva and J. M. Mas (2020). *In-silico drug repurposing study predicts the combination of pirfenidone and melatonin as a promising candidate therapy to reduce SARS-CoV-2 infection progression and respiratory distress caused by cytokine storm*. **PLoS One** 15(10): e0240149.
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 18. Lucas, F., E. D. Babot, M. Cañellas, J. C. del Río, L. Kalum, R. Ullrich, M. Hofrichter, V. Guallar, A. T. Martínez and A. Gutiérrez (2016) *Molecular determinants for selective C25-hydroxylation of vitamins D2 and D3 by fungal peroxygenases*. **Catal. Sci. Technol.** 6: 288-295.
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28. Naval, J. and J. Farrés (2010) *Systems Biology footprint On the nutraceuticals and cosmetics arena.* **NutraFoods** 9(3): 4.
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32. Santos-Lozano, A., P. L. Valenzuela, F. Llaveró, S. Lista, P. Carrera-Bastos, H. Hampel, H. Pareja-Galeano, B. G. Galvez, J. A. Lopez, J. Vazquez, E. Emanuele, J. L. Zugaza and A. Lucia (2020). "Successful aging: insights from proteome analyses of healthy centenarians." **Aging** (Albany NY) 12(4): 3502-3515.
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- Ibarra, A., B. Vega, M. Armas, D. Gonzalez, R. Valls, R. Horres, C. Valverde Tercedor, J. C. Wiebe and A. M. Wägner (2019). *Micro-ARN placentarios en la diabetes pregestacional: correlaciones clínicas*. *Endocrinol Diabetes Nutr.* 66(Espec Cong 2): 23. Oral presentation in el **60 Congreso Nacional de la Sociedad Española de Endocrinología y Nutrición**.
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