DAVIDE CORÀ

CURRICULUM VITAE sintetico

Contatti:

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Titoli:

Laurea in Fisica
Master in Bioinformatica
Ph.D., in “Sistemi complessi applicati alla biologia post-genomica”

Posizione attuale:

Professore Associato (s.s.d. BIOS-08/A - Biologia Molecolare)
Dipartimento di Medicina Traslazionale,
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AFFILIAZIONI

- Dipartimento di Medicina Traslazionale, Università del Piemonte Orientale.
- Center for Translational Research on Autoimmune & Allergic Diseases – CAAD.
- BITS – Bioinformatics Italian Society.

ATTIVITA' DIDATTICA FRONTALE

- Corso di "BIOLOGIA MOLECOLARE", presso corso di Laurea in BIOTECNOLOGIE.
- Corso di "BIOCHIMICA – BIOLOGIA MOLECOLARE", presso corso di Laurea Magistrale in MEDICINA E CHIRURGIA.
- Corso di "BIG DATA ANALYSIS", presso Laurea Magistrale in MEDICAL BIOTECHNOLOGY.
- Corso di "BIOINFORMATICA E APPROCCI DI SYSTEMS BIOLOGY", presso Laurea Magistrale in BIOTECNOLOGIE FARMACEUTICHE.
- Specialità di Genetica Medica – non medici, Scuola di Medicina (Novara).
- Specialità di Microbiologia e virologia – non medici, Scuola di Medicina (Novara).

SINTESI INTERESSI DI RICERCA

La parte principale della mia attività di ricerca si svolge all'interno della **Bioinformatica e Biologia Computazionale**, ovvero nell'ambito di quell'insieme di studi e ricerche interdisciplinari volte alla definizione delle proprietà degli organismi viventi tramite l'uso di metodi integrati derivanti dalla biologia, matematica, fisica, informatica.

Keywords:

- Regulatory networks, microRNAs, non-coding DNA.
- Cancer and Neurological Disease Genomics.
- Metagenomics.
- AI-driven genomics.

In questi contesti, collaboro con diversi laboratori sperimentali, fornendo competenze computazionali e di analisi dei dati.

PUBBLICAZIONI SU RIVISTE internazionali WOS / SCOPUS

1) "Computational identification of transcription factor binding sites by functional analysis of set of genes sharing overrepresented upstream motifs."
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8) 8) "Nucleation dynamics in 2d cylindrical Ising models and chemotaxis."
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9) "Identification of functional TFAP2A and SP1 binding sites in new TFAP2A modulated genes."
Orso F.*, **Corà D.***, Ubezio B., Provero P., Caselle M. and Taverna D.
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14) "Genetic and expression analysis of MET, MACC1 and HGF in liver metastases from colorectal carcinomas: assessment of response to Met inhibition in patient-derived xenografts and clinicopathological significance."
Francesco Galimi, Davide Torti, Francesco Sassi, Claudio Isella, **Davide Corà**, Stefania Gastaldi, Dario Ribero, Andrea Muratore, Paolo Massucco, Dimitrios Siatis, Gianluca Paraluppi, Federica Gonella, Francesca Maione, Alberto Pisacane, Ezio David, Bruno Torchio, Mauro Risio, Mauro Salizzoni, Lorenzo Capussotti, Timothy Perera, Enzo Medico, Maria Flavia Di Renzo, Paolo M. Comoglio, Livio Trusolino and Andrea Bertotti.
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Andrea Bertotti, Giorgia Migliardi, Francesco Galimi, Francesco Sassi, Davide Torti, Claudio Isella, **Davide Corà**, Federica Di Nicolantonio, Michela Buscarino, Consalvo Petti, Dario Ribero, Nadia Russolillo, Andrea Muratore, Paolo Massucco, Alberto Pisacane, Luca Molinaro, Emanuele Valtorta, Andrea Sartore-Bianchi, Mauro Risio, Lorenzo Capussotti, Marcello Gambacorta, Salvatore Siena, Enzo Medico, Anna Sapino, Silvia Marsoni, Paolo M. Comoglio, Alberto Bardelli, and Livio Trusolino.
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*** indica first or last authorship condivisa**