

CORSO DI DOTTORATO DI RICERCA IN BIOLOGIA EVOLUZIONISTICA ED ECOLOGIA

GIORNATE DEI DOTTORANDI – PhD RETREAT

Phd School Seminars in Evolutionary Genomics

Dipartimento di Biologia, Università di Firenze, Palazzo Non-finito, via del Proconsolo 12, Aula 1

7 Luglio 2022

Keynote Lecture 1	09:00	09:30	Cosimo Posth - University of Tubingen. "The Genomic diversity of Epigravettian-associated hunter gatherers along the Italian peninsula"
Cycles XXV, XXVI, XXXVII Human evolution session. Chair-David Caramelli	09:30	09:45	Valentina ZARO - "Gli Etruschi di <i>Felsina</i> e dintorni: evidenze genetiche dall'Etruria padana". XXXV
	09:45	10:00	Costanza CANNARIATO - "Analisi Paleogenomica degli abitanti di Pompei (79 CE)". XXXVI
	10:00	10:10	Rajiv BOSCOLO AGOSTINI - "Un approccio inferenziale allo studio della storia passata della popolazione umana utilizzando genomi antichi a bassa copertura". XXXVII
	10:10	10:20	Margherita VANNI - "Storia genetica di Sicilia, Sardegna e Corsica attraverso lo studio del dato umano antico e moderno". XXXVII
	10:20	10:35	Silvia PERRETTI - "Understanding the process of skin lightening in Europeans: selection and migration." XXXVI
	10:35	10:50	Ilaria GRECO – "Spatial patterns of mammal populations and communities from local to global scale". XXXV
Short Break	11.10	11.30	Short Break
	11.30	11.40	Giulia SEMENZATO – "The phytobiome of the medicinal plant <i>Origanum vulgare</i> : linking the bacterial endophytic communities to the essential oil".
Cycle XXXVII Chair Giuseppe Forlani	11:40	11:50	Marco BONIFACINO – "Monitoring of pollinators and analysis of their diversity in the National Parks of the Central Apennines". Remoto
Cycle XXXVII Chair Giuseppe Forlani	11:50	12:00	Lorenzo Pasquali - "Interazioni competitive tra <i>Apis mellifera</i> e api selvatiche sulla piccola isola di Giannutri".

			Remoto
	12:00	12:10	Oana Catalina MOLDOVEANU - "Miglioramenti di aree golenali per la conservazione delle api selvatiche".
	12:10	12:20	Agnese GORI – “Wasps and their Microbiota as a Bioindicator and Toolbox in Environmental Entomotherapy”.
	12:20	12:30	Lorenzo BENETTI – “Nuovi approcci eco-compatibili nella lotta ai fitopatogeni”.
	12:30	12:40	Santiago PINTOS - “Daily rhythm of stress response in the zebrafish <i>Danio rerio</i> ”.
	12:40	12:50	Lara MARINANGELI - "Definizione dello stato di conservazione e capacità adattative della lepre bianca (<i>Lepus timidus</i>) sulle Alpi Italiane".
	12:50	13:00	Miriam NEGUSSU – “Characterization of <i>Cicer arietinum</i> genotypes in response to climate changes”.
	13.00	13.15	Lisa CANGIOLI – “Systems biology of plant-microbe partnerships: a journey from the overall plant microbiota to the rhizobial intimate interaction”.
Cycle XXXVI	13.15	13.30	Giulia MONTALBANO - "Plasticità cognitiva nei pesci teleostei".
Cycle XXXV	13:30	14:30	Lunch
Lunch	14:30	14:45	Enrico SCHIFANI - "Relazioni multitrofiche delle formiche in agroecosistemi mediterranei: prospettive per la lotta biologica". Remoto
	14:45	15:00	Alice DALLA VECCHIA - “Functional traits applied to macrophytes – a focus on nymphaeids resource-use strategies”. Remoto
Cycle XXXVI- Chair Duccio Cavalieri	15:00	15:15	Giorgio CHIARI – “Flussi di carbonio in ecosistemi alpini d’alta quota: effetti dell’aumento di temperatura e della riduzione delle precipitazioni”. Remoto

Cycle XXXV	15.15	15.30	Luna ARDONDI – “Light- and substrate-driven variations in microalgal metabolism for biotechnological applications”. Remoto
Coffee Break	15:30	16:00	Coffee Break
	16:00	16:15	Andrea COLPO - "Photosynthetic plant phenotyping: the case of NS67 bread wheat and its chlorophyll-depleted mutant lines".
Cycle XXXV	16:15	16:30	Luca DINUZZO – “Cambiamento climatico e microclima: effetti sulla diversità ed ecofisiologia dei licheni”
	16:30	16:45	Giuseppe SABBIONI – “Il ciclo prolina P5C e la sua regolazione nei vegetali”
	16:45	17:00	Pietro Maria RONTANI - "Le specie diadrome della fauna ittica: una storia naturale di migrazioni".
	17:00	17:15	Lucrezia GIOVANNINI- " <i>Halyomorpha halys</i> e suoi nemici naturali"
	17:15	17:30	Nicolo' BELLIN – “Application of machine learning techniques in ecology”.
	17:30	17:45	Marco SALVATORI - "Mammal communities in the anthropocene: systematic camera-trapping to study wildlife responses to anthropogenic pressures".
	17:45	18:15	Guido Barbujani - University of Ferrara. “Darwin’s last Dream putting together genomic and Linguistic evidence.”

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8 Luglio 2022

Keynote Lecture 3	09:00	09:30	Nicola Segata - University of Trento: "High Resolution population genomics, biogeography and transmission of the human microbiome"
Cycle XXXVII Chair Renato Fani	09:30	09:40	Francesca VACCARO – "The challenge of creating synthetic communities: systems biology approaches to uncover rhizobial interactions in a complex rhizosphere".
Cycle XXXVII Chair Renato Fani	09:40	09:50	Marco DAINELLI – "Micro- and nanoplastics, an invisible threat to plants and ecosystems".
	09:50	10:00	Tania ALONSO VÁSQUEZ – "Monitoraggio e modellizzazione dell'attività microbica in impianti per il trattamento delle acque reflue e identificazione di potenziali target per l'ambito biotecnologico".
	10:00	10:10	Stefania SMARGIASSI – "Interazioni "trait-mediated" in agroecosistemi: sviluppo di metodi innovativi di controllo biologico"
	10:10	10:20	Giacomo CHINI – "The impact of climatic changes on Italian freshwater communities: an eco-physiological approach".
	10:20	10:30	Gaia DERUSSI - " <i>Anguilla anguilla</i> . A brief summary on the biology of the species and our project"
	10:30	11:00	Christopher RICCARDI – "Freezing omics: it's just the tip of the iceberg"-Remoto
Coffee Break	10:40	11:00	Coffee Break
Cycle XXXVII Chair Alessio Mengoni	11:00	11:10	Lorenzo BALLINI - "Biodiversity monitoring: the first step for its protection and management".
	11:10	11:20	Lisa BALDI – "Predicting the effect of the Common Agricultural Policy measures on the supply of ecosystem services through positive agent-based modelling".
	11:20	11:30	Maria CAVALLERO - "Study of the metabolic and physiological variations of plants in response to mycotoxins treatment".
Cycle XXXVI	11:30	11:45	Mariapia GERVASIO - "Ecological effects of Climate Change on nitrogen cycling and eutrophication in the Po River".

Cycle XXXVI	11:45	12:00	Marina BAMBI - "Gut microbiome dynamics in primates across a tropical ecosystem"
Cycle XXXVI	12:15	12:30	Alessandro GESSI - "The compatibility of HClO disinfectant for covid, viruses and bacteria with reference materials".
	12:30	12:45	Giuseppe MOLINARI – "Interazione del metabolismo del solfato nella tolleranza al cromo in alghe verdi unicellulari d'acqua dolce".
	12:45	13:00	Matteo UNGARO – "A Pangenomic Framework for the Study of Structural Variation: demography, evolution and GWAS".
Lunch	13:00	14:00	Lunch
Cycle XXXV e XXXVI Chair Alessio Papini	14:00	14:15	Stefano NENCIARINI – "Yeast Extracellular Vesicles as means of immunomodulation".
	14:15	14:30	Nicola GHIRARDI - "Assessment of pit lakes at basin scale: changes in water quality from satellite imagery and limnological data in the Po River basin".
	14:30	14:45	Emilio CORTI - "Risposta cellulare e morfologica di <i>Eruca sativa</i> in condizioni di stress salino".
	14:45	15:00	Francesca VISENTIN - "Linking edaphic communities and humus forms in forest soils hit by Vaia storm".
	15:00	15:15	Maria Beatrice CASTELLANI "Un approccio multidisciplinare nello studio della diversità genetica di comunità macrofite di acqua dolce".
	15:15	15:30	Sonia RENZI – "The transition from a traditional to a Western lifestyle and its effect on the interrelation between diet, gut microbiome and health".
	15:30	15:45	Edoardo CAVALLINI - "Nutrient loads and eutrophication risk in water bodies of the Po river watershed". Remoto
	15:45	16:00	Samuele PAGANI – "Carrying capacity of coastal lagoons with molluscs farming: evaluation of biogeochemical services, thresholds and risks"- Remoto
	16:00	16:30	Break
Keynote lecture 4	16:30	17:00	Duccio Cavalieri - University of Florence. Neo-Darwinism and the Holobiont theory of Evolution.

Notes:

The presence to both days is highly recommended and is a sign of respect to your fellow PhDs. Respect of COVID safety rules according to Florence University Regulation and use of FP2 face masks is mandatory.

The duration of the talk is as follows please respect timing strictly.

Cycle XXXV : 15' talk (10' talk + 5' questions)

Cycle XXXVI : 15' talk (10' talk + 5' questions)

Cycle XXXVII : 10' talk (7' talk + 3' questions)

Students not attending in person for valid reasons (e.g. visiting period abroad, conferences etc.) send a video recording of their presentation two days in advance and attend on-line for questions.