

## Ambizione: List of Recipients/Grantees

### Ambizione Call 2020: 14<sup>th</sup> Call (84 grants)

Name	First Name	Host Institution	Discipline	Project Title
Aarrestad	Thea Klaeboe	ETH Zürich	Particle Physics	Detecting New Physics at 40 Megahertz: Scouting for anomalous events with unsupervised AI in the CMS hardware trigger
Abendroth	John	ETH Zürich	Physical Chemistry	Quantum Coherence in Mirror-Image Molecules
Aubert	Carole Elodie	Universität Bern	Internal Medicine	Impacts of an INtervention TO increase MOBility in older hospitalised medical patients (INTOMOB): a cluster randomised controlled trial
Baixauli Celda	Francesc	Universität Basel	Immunology, Immunopathology	The role of PHGDH in normal and pathogenic CD4+T cell immunity
Belus	Jennifer	Universität Basel	Applied psychology	Closing the Mental Health Treatment Gap: Testing Effectiveness and Implementation Outcomes of a Mental Health Intervention for People Living with HIV in Southern Africa
Bernard	Ellina	EMPA Dübendorf	Material Sciences	Deciphering the role of magnesium in earth materials for sustainable construction
Blume	Christine	Universität Basel	Psychology	Beneficial effects of daytime light exposure and physical activity on the human circadian clock and sleep (DayCIS)
Bocchi	Riccardo	Université de Genève	Neurophysiology and Brain Research	Origin and diversity of neocortical astrocytes
Bolay	Matthieu	Universität Bern	Ethnology	Arbitraging Extraction (Arbitrex): Arbitral Reasoning in the Legal Topographies of Global Extraction
Brunner	Manuela	Universität Bern	Hydrology, Limnology, Glaciology	Predicting floods and droughts under global change
Carraro	Luca	Universität Zürich	Hydrology, Limnology, Glaciology	Integrating hydrology and environmental DNA to advance monitoring of freshwater biodiversity

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Cekic	Mihajlo	Universität Zürich	Mathematics	Dynamics, Rigidity and Inverse Problems
Chan	Hardy	Universität Basel	Mathematics	Interplay between phase transition, geometry, and singularities
Clavel	Damian	Universität Zürich	General history (without pre-and early history)	Deconstructing Fraudulent Indigenous Utopias: A History of Failed Miskitu and Mapuche Loans on European Money Markets in the Age of Revolutions
Costa	Francesco	Cardiocentro Ticino	Clinical Cardiovascular Research	IMPROVING CURRENT STANDARDS FOR EVENT PREDICTION AFTER MYOCARDIAL INFARCTION THROUGH ARTIFICIAL INTELLIGENCE
D'Anna	Edoardo	EPF Lausanne	Other disciplines of Engineering Sciences	A High-Bandwidth Bidirectional Brain-Spine Interface to Restore Hand and Arm Function
Dällenbach	Kaspar Rudolf	PSI Villigen	Climatology. Atmospherical Chemistry, Aeronomy	Particulate air pollution sources in low-income megacities
De Angelis	Andrea	Universität Zürich	Political science	Political Misinformation in the Digital Age
De Vries	Bouke	Universität Zürich	Philosophy	The Ethics of Loneliness and Sociability
DeLaney	Ian	Université de Lausanne	Hydrology, Limnology, Glaciology	Identifying changes to erosion and sediment transport from the Greenland Ice Sheet: implications for glacier dynamics and Earth systems
Dereka	Bogdan	Universität Zürich	Physical Chemistry	Ultrafast Equilibrium and Nonequilibrium Dynamics at Solid-Liquid Interfaces
Dimov	Cvetomir	Université de Genève	Psychology	Constructing an integrated model of language use during collaborative skill acquisition
Dixon	Karen	Universität Basel	Immunology, Immunopathology	Dendritic cell determinants of therapy resistance in cancer
Ernst	Christina	EPF Lausanne	Molecular Biology	RNA-protein interactions at the host-viral interface of SARS-CoV-2 infections
Evers	Serjoscha	Université de Fribourg	Palaeontology	Macroevolutionary patterns of shape evolution in turtles
Faroldi	Federico	Universität Bern	Philosophy	A Formal Approach to the Structure of Reasons
Fasel	Raffael Nicolas	Universität Zürich	Legal sciences	The Natural Constituent Power

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Feichtinger	Moritz Johannes	Universität Basel	General history (without pre-and early history)	Computing the Social. Psychographics and Social Physics in the Digital Age
Forss	Sofia	Universität Zürich	Zoology	At the intersection of motivation and cognition: combining multiple predictors of animal intelligence using meerkats as a model system
Frei	Angelo	Universität Bern	Inorganic Chemistry	Outsmarting the Bugs - Metal Complexes as New Antimicrobial Strategies
Galli	Francesca	Universität Zürich	Romance languages and literature	The «Ineffabilis Utilitas» of Optics. Hybrid Uses of a Pivotal science in 13th-century Imagery and Thinking.
Graverini	Elena	EPF Lausanne	Particle Physics	From beauty to strangeness: a flavour approach to probing new interactions
Halliday	Fletcher	Universität Zürich	Ecology	Disease risk under environmental change and biodiversity loss - causes and consequences
Hesse	Julia	IBM Research GmbH	Information Technology	Your Biometrics, please! Cryptographic Protocols for Human Authentication and the IoT
Holler	Theresa	Universität Basel	Visual arts and Art history	Healing Arts: Representations and Practices of Medical Knowledge in Art and Literature (9th-12th centuries)
Huguenin-Dezot	Nicolas	ETH Zürich	Molecular Biology	CESARE: Continuous Evolution System by Autonomous Replication in E. coli
Huhtamaa	Heli	Universität Bern	General history (without pre-and early history)	Distal socio-economic impacts of big volcanic eruptions in 1500-1900 CE Switzerland and Sweden (DEBTS)
Janssen	David	ETH Zürich	Geochemistry	Biological productivity-dust coupling in the glacial Southern Ocean: New insights from metal isotopes
Kilani	Marwan	Universität Basel	Ancient history and Classical studies	Like the conversation of a Delta man with a man from Elephantine! Exploring the interactions between dialectal realities, Levantine loanwords, and sociolinguistic dynamics in New Kingdom Egyptian
Lewanski	Danilo	Université de Genève	Mathematics	Resurgent topological recursion, enumerative geometry and integrable hierarchies
Locher	Cosima	Universität Zürich	Psychology	Placebo effects in opioid therapy: Clinical relevance and potential use for patients with Chronic Primary Pain

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Losapio	Gianalberto	Université de Lausanne	Ecology	IceNet - Forecasting the impact of glacier retreat on network dynamics and ecosystem functions
Mann	Anna Maria	Universität St.Gallen	Sociology	(Im-)possibilities of letting life end. An ethnography of transformations in medical practice
Mayr	Harald	Universität Zürich	Economics	Can Landlords and Tenants Pull Energy Efficiency Together? Evidence on the Split Incentive Problem
Medenjok	Marko	Université de Genève	Theoretical Physics	Unconventional many-body Systems out-of-equilibrium
Meier	Armando N.	Université de Lausanne	Economics	Economic, Behavioral, and Health Consequences of Medical Guidelines
Mirelman	Sam	Université de Genève	Ancient history and Classical studies	The Dawn of Translation: Sumerian-Akkadian Literary Bilingualism in the Old Babylonian Period (2000-1600 BC)
Mommer	Stefan	ETH Zürich	Material Sciences	Slide-Ring Networks using High-Affinity Host-Guest Inclusion Complexation
Morel	Teymour	Université de Genève	Other languages and literature	La philosophie arabe au prisme de la diffusion de ses témoins manuscrits dans le monde : Averroès, al-Yānyawī et al-Tūlāwī comme cas d'étude
Moret	Stefano	ETH Zürich	Other disciplines of Engineering Sciences	RIMES - Robust Integrated Modeling for Energy and Engineering Systems
Mornev	Maxim	EPF Lausanne	Mathematics	Local monodromy of Drinfeld modules
Müller	Oliver	EPF Lausanne	Astronomy, Astrophysics and Space Sciences	Probing the standard model of cosmology with dwarf galaxies
Muroyama	Alexander	PSI Villigen	Mechanical Engineering	A novel process for electrochemical direct-air capture of CO2
Notter	Tina Fabia	Universität Zürich	Neurophysiology and Brain Research	The Role of Astrocytes in Postnatal Synaptic Refinement of the Medial Prefrontal Cortex
Papadakis	Georgios	Université de Lausanne	Clinical Endocrinology	Improving the management of Klinefelter syndrome
Perazzone	Stéphanie	Université de Genève	Political science	'Unruly' Spaces: Public space, Society and Polics in Urban Africa
Preisig	Basil Christoph	Universität Zürich	Psychology	Exploiting the potential of neural attentional control to overcome hearing impairment
Putz	Barbara	EMPA Thun	Material Sciences	Super stretchable novel atomic scale hybrid materials
Rebane	Aleksander	ETH Zürich	Biophysics	Golgi Physik and Architektur

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Riemensberger	Johann	EPF Lausanne	Technical Physics	Ultra-low loss nonlinear photonic integrated circuits for novel applications in optical telecommunication and metrology
Rossetto	Luca	Universität Zürich	Information Technology	MediaGraph
Rottoli	Luca	Universität Zürich	Theoretical Physics	Precise simulations for jet processes at the LHC
Roy	Christopher	Université de Lausanne	Cardiovascular Research	Comprehensive Volumetric CINE Magnetic Resonance Imaging of the Fetal Heart
Salvatore	Tommaso	Université de Genève	Romance languages and literature	Geografia e storia della tradizione dei Rerum vulgarium fragmenta
Schmid	Franca	Universität Bern	Fluid Dynamics	Energy Supply in Whole Brain Microvascular Networks in Health and Disease - Quantifying the Relevance of Small-Scale Disturbances
Schwagenscheidt	Markus	ETH Zürich	Mathematics	Periods of modular forms
Singh	Tripurdaman	IHEID Genève	General history (without pre-and early history)	Raja and Praja: Public Politics and Decolonisation in India's Princely States
Slomka	Jonasz	ETH Zürich	Biophysics	BioEncounters - where physics encounters microbial ecology
Tinkhauser	Gerd	Universität Bern	Neurology, Psychiatry	Adaptive neuromodulation in movement disorders - a precision medicine approach -
Tiwari	Shubhanshu	Universität Zürich	Astronomy, Astrophysics and Space Sciences	Gravitational Wave observations : A probe into fundamental physics, astrophysics and cosmology.
Tokarska	Katarzyna	ETH Zürich	Climatology, Atmospheric Chemistry, Aeronomy	Physically-informed and interpretable data-driven estimates of the transient climate response to cumulative CO2 emissions and remaining carbon budgets
Tritsis	Aris	EPF Lausanne	Astronomy, Astrophysics and Space Sciences	Halo's Magnetic field as Evident from stRiated Interstellar Clouds
Uola	Roope	Université de Genève	Theoretical Physics	Quantum measurement resources: theory and applications
van Vliet	Simon	Universität Basel	Experimental Microbiology	The role of cell-cell interactions in the development and virulence of multispecies biofilms
von Passavant	Nicolas	Universität Zürich	German and English languages and literature	Poetische Mischverfassung. Interferenzen anthropologischer, politischer und literarischer Verfahren der Mixtur 1650-1730

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Vorbrugg	Alexander	Universität Bern	Social geography and ecology	Russia's New Forests: Assembling and Governing a Resource Frontier
Vuckovic	Stefan	Université de Genève	Physical Chemistry	Transforming Applicability of Density Functional Theory Simulations of Complex Molecules
Waltenspül	Sarine	Universität Luzern	Communication sciences	Visualpedia. 'Atlas Encyclopaedia Cinematographica' und die Visual Science and Technology Studies
Walter	André	Universität Zürich	Political science	Endogenous Electoral Markets, Party Entry, and Democratization
Walther	Andreas	Universität Zürich	Applied psychology	Evaluation of a male-specific psychotherapeutic program for major depressive disorders compared to cognitive behavioral therapy: A randomized controlled superiority trial examining depressed eugonadal and hypogonadal men receiving testosterone
Willemsen	Pascale	Universität Zürich	Philosophy	Investigating thick ethical concepts - Philosophical and empirical perspectives
Winiger	Patrik	PSI Villigen	Climatology. Atmospherical Chemistry, Aeronomy	Macromolecular aerosols in the cryosphere from the Arctic to the Alps (MACrAA)
Wirz	Dominique Stefanie	Université de Fribourg	Communication sciences	News Consumption and Infotainment on Social Media: Effects of entertaining features in digital news stories on exposure, engagement, knowledge and attitudes
Zangger	Christoph	Universität Bern	Sociology	The neighborhood in the cloud: How on- and offline location-based social networks shape individual life chances

### Ambizione Call 2019: 13<sup>th</sup> Call (79 grants)

Name	First Name	Host Institution	Discipline	Project Title
Aaron	Jordan	Eidg. Forschungsanstalt - WSL	Other disciplines of Earth Sciences	Measuring and Modelling Catastrophic Landslides and Debris Flows
Achouri	Karim	EPF Lausanne	Electrical Engineering	Planar Photonic Platform for Optical Analog Processing
Andrei	Adrian-Stefan	Universität Zürich	Ecology	Retracing the evolutionary history of mitochondria through environmental evogenomics

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Belge	Boris	Universität Basel	General history (without pre-and early history)	Managing Trade: Infrastructure and Economic Practices in the Port of Odessa (1794-1905)
Cagno	Valeria	Université de Lausanne	Experimental Microbiology	Innovative approaches to broad-spectrum antivirals
Capozzi	Andrea	EPF Lausanne	Technical Physics	The DNP Warehouse: hyperpolarized Magnetic Resonance for all
Cavelti	Marialuisa	Universität Bern	Psychology	A smartphone-based ecological momentary assessment and intervention for adolescents with auditory verbal hallucinations
Combet	Benita	Universität Zürich	Sociology	Preferences or institutional constraints? Explanations for the persisting impact of gender and social background on field of study choice
Craik	Daniel	Universität Zürich	Particle Physics	Searching for new particles at LHCb
Cusin	Giulia	Université de Genève	Theoretical Physics	Gravitational Wave propagation in the clustered universe
Da Poian	Giulia	ETH Zürich	Other disciplines of Engineering Sciences	Digital Tools For Mental Health: Closing The Loop For Personalized Treatment
Daffé	Niéli	PSI Villigen	Condensed Matter Physics	Achieving High-performance Light-Induced Magnetic Properties of Surface-Adsorbed Molecular Switches
de Lange	Ann-Marie	Université de Lausanne	Neurophysiology and Brain Research	FemiLab: Women's Brain Health Across The Lifespan
Ellis	Sebastian	Université de Genève	Theoretical Physics	New frontiers from sub-eV to super-TeV
Fan	Honglu	Université de Genève	Mathematics	Structures in Gromov-Witten theory
Ferrari	Fabio	Universität Bern	Astronomy, Astrophysics and Space Sciences	Dynamics and evolution of small bodies in the Solar System
Fièvre	Sabine	Université de Genève	Neurophysiology and Brain Research	Diversity and input sensitivity of piriform cortex neuron identity
Flach	Susanne	Universität Zürich	German and English languages and literature	Constructional Interaction: Corpus and experimental approaches to associative links in the constructicon
Fleming	Patrick	ETH Zürich	Architecture and Social urban science	Recovering the historical construction, acoustics, and lighting of the Stockholm Public Library
Forey	Arthur	EPF Lausanne	Mathematics	Metric and additive invariants in tame non-Archimedean geometry

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Furci	Hernan	EPF Lausanne	Technical Physics	Cryogenic thermometry based on superconducting microwave resonators
Gomez Temesio	Veronica	Université de Genève	Ethnology	Triage and Neglected Spaces of Care: Diabetes in Guinea
Haas	Andreas	Universität Bern	Mental Disorders, Psychosomatic Diseases	Pathways from mental disorders to burden of disease: Causal mediation analysis of big data from South Africa
Hagelstein	Franziska	PSI Villigen	Particle Physics	Hadronic Corrections to Muon Anomalies
He	Lei	Universität Zürich	Applied linguistics	Untangling the relationship between voice and face: A cross-modal approach to talker identity
Hirblinger	Andreas	IHEID Genève	Political science	An apomediated peace? The role of digital technologies in international peacebuilding
Huber	Vitus	Université de Genève	General history (without pre-and early history)	Körperliche Optimierungspraktiken in der Frühen Neuzeit. Medien und Methoden der Selbstbeobachtung und Selbstverbesserung
Huwiler	Simona	Universität Zürich	Molecular Biology	Learning from predatory bacteria: from 'omics' to molecular mechanisms
Karateev	Denis	Université de Genève	Theoretical Physics	Bootstrapping the QCD Conformal Window
Keitel	Kristina	Universität Bern	Paediatrics	ToolCAP: Novel tools to improve primary-care management of pediatric community-acquired pneumonia - an impact-based diagnostic study in Tanzania.
La Manno	Gioele	EPF Lausanne	Molecular Biology	Spatiotemporal mapping of neural progenitor populations across the embryonic central nervous system
Labouesse	Marie Anais	ETH Zürich	Neurophysiology and Brain Research	Neural signals programming energy balance in the mouse basal ganglia
Larsen	Christopher Bryan	Université de Genève	Inorganic Chemistry	Bespoke Molecular Machines for Artificial Photosynthesis and Molecular Electronics
Lawrence	Andrew	Universität Bern	Archaeology	REASSESSING ROMAN IMPACT - GEOGRAPHIES OF POWER AND DOMINATION IN THE ROMAN WEST AND BEYOND 200 BC - 200AD
Lee	Graham	Universität Bern	Astronomy, Astrophysics and Space Sciences	Exoplanet atmospheres in 3D: Clouds, chemistry and radiative transfer in the JWST era.



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Ligterink	Niels	Universität Bern	Astronomy, Astrophysics and Space Sciences	Molecular Ice Diffusion for Interstellar Chemistry (MIDIC): Developing the next generation laboratory tools to investigate molecular diffusion in ice
MacDuff	Sangam	Université de Lausanne	German and English languages and literature	The Logic of Modern Literature
Malinsky	Milan	Universität Bern	Genetics	Evolution of meiotic recombination and genomic divergence in percomorph fishes
Marti	Sibylle	Universität Bern	General history (without pre-and early history)	Unsichtbar und unsicher. Eine Wissensgeschichte informeller und prekärer Arbeit seit 1970
Maynard	Daniel	ETH Zürich	Ecology	The functional biogeography of the global forest system
McCarthy	Anders	ETH Zürich	Geology	Kinetic fractionation of isotopes: constraining rapid crystal growth of plagioclase and short timescales of subvolcanic magmatic systems
Meineri	Marco	Université de Genève	Theoretical Physics	The bootstrap program beyond local probes
Meixner	Sebastian	Universität Zürich	German and English languages and literature	Poetik des Überflusses: Ästhetik - Ökonomie - Literatur
Menardo	Fabrizio	Universität Zürich	Genetics	Population genomics and molecular epidemiology of wheat powdery mildew ( <i>Blumeria graminis</i> f.sp. <i>tritici</i> ) in Europe
Meyer	Benjamin	Université de Genève	Immunology, Immunopathology	The Effect of Immune Imprinting: Epitope-level Analyses of Antibody Responses to Influenza Immunization Using Phage Display
Mildenberger	Carl David	Universität Zürich	Philosophy	Moral Market Mechanisms
Motta	Marco	Université de Neuchâtel	Ethnology	Growing up far from home: Unaccompanied refugee youth becoming adults in Switzerland
Mundt	Sarah	Universität Zürich	Immunology, Immunopathology	Unravelling CNS-specific tolerance mechanisms in health and disease
Öztan	Ramazan Hakki	IHEID Genève	General history (without pre-and early history)	Textiles, Livestock, and Grain: Restructuring the Economy of the Ottoman Middle East, 1918-1939
Pappas	Charalampos	ETH Zürich	Physical Chemistry	Dynamic Chemical Networks: Steps Towards Molecular Complexity
Pas	Damien	Université de Lausanne	Geology	Generating a highly resolved astronomical time scale for the evolutionary and ecological events of the Cambrian Explosion

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Perrina	Chiara	EPF Lausanne	Astronomy, Astrophysics and Space Sciences	Indirect search for dark matter by gamma-ray detection with DAMPE and HERD
Pool	Eva	Université de Genève	Psychology	Individual differences in emotional learning underpinning vulnerabilities to compulsive reward-seeking behaviors
Proix	Timothée	Université de Genève	Neurophysiology and Brain Research	Neural manifolds for speech processing
Raabe	Isabel Jasmin	Universität Zürich	Sociology	Schools as network systems: How classroom compositions shape the dynamics of social relations and inequality in educational outcomes
Riebe	My Elin Ingeborg	ETH Zürich	Geochemistry	Unlocking the origin of Earth's volatiles
Rietmann	Felix	Université de Fribourg	General history (without pre-and early history)	Raising a Well-Grown Child: Media and Material Cultures of Child Health in the Early Nineteenth Century
Riolo	Stefano	Université de Genève	Mathematics	Hyperbolic 4-manifolds and deformations
Schlegel	Stefan	Universität Bern	Legal sciences	Neuland für die Eigentumsgarantie: der Staat als Schöpfer und Schützer von Gütern jenseits des traditionellen Eigentumsbegriffes
Schüler	Michael	PSI Villigen	Condensed Matter Physics	Theory of advanced spectroscopies and control of topological properties
Seelig	Eleonora	Universität Basel	Clinical Endocrinology	Acute and chronic effects of glucocorticoids in energy homeostasis
Sert	Cagri	Universität Zürich	Mathematics	Fractals, counting and approximation
Smirnov	Gleb	Université de Genève	Mathematics	Automorphism groups of four-manifolds
Smith	Eluned	Universität Zürich	Particle Physics	Loop the loop: measurements of double-loop effects in rare beauty decays
Stacko	Peter	Universität Zürich	Organic Chemistry	Near-infrared Light-Activated Photorelease Systems for Biological Applications
Stiller	Alexa	Universität Zürich	General history (without pre-and early history)	Visions of Accountability: Global Transformation of Human Rights Activism, International Criminal Law Practice and Humanitarian Interventions in the Post-Cold War Era
Tröster	Tilman	ETH Zürich	Astronomy, Astrophysics and Space Sciences	Cosmology in the non-linear and baryonic Universe

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Van de Broek	Marijn	ETH Zürich	Pedology	The numerical subsoil: understanding how land management affects the subsoil microbiome to improve numerical simulations of coupled carbon-nitrogen cycles in soils
Verdon	Noémie	Université de Lausanne	General history (without pre-and early history)	Intercultural exchanges and cultural changes: the Śāhi kings of early medieval Gandhāra and Panjab
Veres	Máté	Université de Genève	Philosophy	Excellence and expertise in Hellenistic philosophy
von Brescius	Moritz	Universität Bern	General history (without pre-and early history)	Anticipations and Disruptions of the 'Synthetic Age': Rubber, Science and Resources, c.1839-1945
Winzeler	Bettina	Universität Basel	Clinical Endocrinology	Glucagon-like peptide-1 (GLP-1) analogues: a new way to quit smoking?
Zampogna	Giuseppe Antonio	EPF Lausanne	Fluid Dynamics	A homogenization based approach for aquaporin flow characterization
Zellweger	Florian	Eidg. Forschungsanstalt - WSL	Ecology	Climate change impacts on biodiversity: From macro- to microclimate
Zimmermann	Christina	Hochschule Luzern	Theatre and Cinema	Netted Letters in Immersive Environments - Entwicklung einer quellenbasierten interaktiven Erfahrungs- und Forschungsumgebung
Zimmermann	Petra	Université de Fribourg	Medical Microbiology	Antibiotic-induced disruption of the maternal and infant microbiota and adverse health outcomes - The ABERRANT study
Zohner	Constantin	ETH Zürich	Ecology	Forest growth and carbon balance in a warming world: Predicting the growing season lengths of temperate forests
Zota	Cezar	IBM Research GmbH	Electrical Engineering	Topological Weyl Semi-metal Electronics for Quantum Applications
Zumstein	Michael	EAWAG	Other disciplines of Environmental Sciences	Exploring extracellular hydrolases from wastewater and soil microbial communities to mitigate environmental pollution

### Ambizione Call 2018: 12<sup>th</sup> Call (78 grants)

Name	First Name	Host Institution	Discipline	Project Title
Amico	Enrico	EPF Lausanne	Other disciplines of Engineering Sciences	Fingerprinting the brain: network science to extract features of cognition, behavior and dysfunction
Anderson	Mark	EPF Lausanne	Neurophysiology and Brain Research	Integrating regenerating circuits after spinal cord injury through neuroprosthetic rehabilitation

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Auer	Thomas	Université de Lausanne	Zoology	Gustatory circuit evolution in Drosophilids
Ben-Nun	Tal	ETH Zürich	Information Technology	Empowering Computational Science using Data-Centric Programming
Biondini	Simone	Universität Basel	Theoretical Physics	Effective field theory and open quantum system approach for dark matter dynamics in the early universe
Boeck	Lucas	Universität Basel	Medical Microbiology	Molecular basis of Mycobacterium Abscessus heterogeneity during stress
Braun	Lesley	Universität Basel	Ethnology	The Travail and Travels of Congolese Transnational Trader Women
Buldgen	Gaël	Université de Genève	Astronomy, Astrophysics and Space Sciences	Seismic inversions and modelling of transport processes in stars
Bzdusek	Tomas	PSI Villigen	Condensed Matter Physics	Topological band theory of driven and dissipative systems
Canales-Rodríguez	Erick Jorge	EPF Lausanne	Other disciplines of Engineering Sciences	Non-invasive histology of the brain microstructure in vivo using advanced modeling techniques and multi-contrast MRI data
Chambert-Protat	Pierre	Université de Fribourg	General history (without pre-and early history)	Le Codex Phimarcensis: treize siècles de lectures
Chiapperino	Luca	Université de Lausanne	Sociology	Constructing the Biosocial: an engaged inquiry into epigenetics and post-genomic biosciences
Chipaux	Mayeul	EPF Lausanne	Other disciplines of Physics	Electron-Beam Based Selective Quantum Manipulations of Nitrogen-Vacancy Centers in Diamond
Coppola	Alysha	ETH Zürich	Geochemistry	Fire and Water: Reconciling the black carbon conundrum at the river-to-ocean interface
Cordes	Matthew	ETH Zürich	Mathematics	Searching for Hyperbolicity and Approximate Groups
de Geus	Tom	EPF Lausanne	Condensed Matter Physics	The Five 'D's of Friction
del Valle Granda	Javier	Université de Genève	Condensed Matter Physics	Correlated oxides for Neuromorphic Computing
Deuchert	Andreas	Universität Zürich	Mathematics	Dünne Bosegas bei positiven Temperaturen
Dick	Leopold	Berner Fachhochschule	Music, Theatre	Opera mediatrix. Avanciertes Musiktheater und kollektive Identitätsbildung in der Schweiz seit 1945
Douillet	Guilhem	Universität Bern	Geology	Sediment transport due to large storms: Multiple tools for a complex problem

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Dudin	Omayya	EPF Lausanne	Cellular Biology, Cytology	Pre-metazoan origins of animal developmental mechanisms
Duval	Suzanne	Université de Lausanne	Romance languages and literature	Le style des Lettres de Jean-Louis Guez de Balzac. Enquête sur le purisme littéraire
Eeftens	Marloes	Universität Basel	Methods of Epidemiology and Preventive Medicine	Effects of airborne pollen on cardiorespiratory health and allergic symptoms
Eichenberger	Ramon Marc	Universität Zürich	Veterinary Medicine	A sweet dispute: functional and antigenic characterisation of Fasciola hepatica liver fluke glycoproteins to identify novel preventive intervention approaches
Elsig	Alexandre	EPF Lausanne	Swiss history	La dose et le poison. Mesurer, gouverner et combattre la toxicité industrielle au 20ème siècle
Engelsen	Nils Johan	EPF Lausanne	Condensed Matter Physics	Quantum Optomechanics with Ultralow Mechanical Dissipation
Esteban Sanz-Dranguet	Oscar	Université de Lausanne	Information Technology	Uncovering the interplay of structure, function, and dynamics of brain connectivity using MRI
Fischer	Carolin	Universität Bern	Sociology	Violent Safe Havens? Exploring Articulations and Repercussions of Violence in Refugee Reception and Settlement
Flandin	Simon	Université de Genève	Educational science and Pedagogy	Resilience-Oriented Training for Safety-concerned Organizations
Forjaco Jorge	Joao Pedro	Université de Lausanne	Other disciplines of Engineering Sciences	Bridging gaps in the neuroimaging puzzle: advanced techniques for comprehensive mapping of brain anatomy and multi-scale network activity
Gilarranz	Luis J	EAWAG	Ecology	Understanding Resilience in Complex Ecological Systems
Gilbert	Kimberly	Universität Bern	Genetics	Evolution and adaptation under complex demographic scenarios
Goutaki	Myrofora	Universität Bern	Respiratory Diseases	From the nose to the lungs: the importance of upper respiratory disease in Primary Ciliary Dyskinesia
Gruber	Dominik	Université de Genève	Mathematics	The spectrum of infinite monster groups
Harris	Michelle	Universität Bern	Psychology	Understanding the Impact of Social Relationships on Self-Esteem
Heyden	Stefanie	ETH Zürich	Mechanical Engineering	Multi-scale modeling of size effects in the fracture of soft solids
Hithnawi	Anwar	ETH Zürich	Information Technology	Privacy Preserving Federated Learning

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Hodel	Tobias	Université de Lausanne	General history (without pre-and early history)	Konsequenzen des maschinellen Lernens für die Geschichtswissenschaft, Fokus Quellen vor 1800
Jeannet	Anne-Marie	Université de Lausanne	Sociology	Deindustrializing Societies and the Political Consequences: The individual, household and local level impact of manufacturing decline on the political attitudes and participation
Jutzeler	Catherine	ETH Zürich	Clinical Pathophysiology	Precision-Medicine for Neurological Disorders: Harnessing the Power of Big Data and Machine Learning for Biomarker Discovery and Drug Repositioning Strategies
Kole	Merlin	Université de Genève	Astronomy, Astrophysics and Space Sciences	Understanding Gamma-Ray Bursts using Multi-Instrument and Multi-Parameter studies
Kuonen	François	Université de Lausanne	Experimental Cancer Research	Epigenetic landscape and master regulators of basal to squamous cell carcinoma transition
Lechleitner	Franziska	Universität Bern	Geochemistry	Probing the potential of STalagmite Organic Matter as a direct tracer for terrestrial ecosystem dynamics and their response to past Climate Change (STOM-CC)
Logins	Arturs	Universität Zürich	Philosophy	Graded Epistemology
Longchamp	Alban	Université de Lausanne	Cardiovascular Research	Role of endogenous hydrogen sulfide in the control of vascular aging
Machado Ruiz	Ricardo Alberto	Université de Neuchâtel	Ecology	Glowing Belowground: Bioluminescence as Regulator of Multi-trophic Interactions in the Rhizosphere
Marchant	Pablo	Université de Genève	Other disciplines of Physics	Understanding the formation of the most massive stellar black holes
Martin	Barbara	Universität Basel	General history (without pre-and early history)	Finding Faith in an Atheist Land: Russian Orthodox Intelligentsia and the Late Soviet National-Religious Revival
Mazza	Giacomo	Université de Genève	Condensed Matter Physics	Quantum Materials and Cavity QED
Merlo	Giovanni	Université de Genève	Philosophy	The privileged present: from phenomenology to metaphysics
Messerli	Michael	Universität Zürich	Philosophy	Transformative Experiences
Molina Bueno	Laura	ETH Zürich	Other disciplines of Physics	Development of Data Acquisition Systems based on Silicon Photomultipliers readouts to search for dark sectors in NA64 at CERN
Nguyen	Thuy Anh Khoa	Universität Bern	Biomedical Engineering	Mapping and Modeling of Deep Brain Stimulation

Name	First Name	Host Institution	Discipline	Project Title
Oldani	Graziano	Université de Genève	Surgery	Immunosuppression-free transplantation of autologous livers grown in xenogeneic species
Palomba	Fabio	Universität Zürich	Information Technology	Test Code Quality: A New Dimension of Test Code Effectiveness
Pati	Sarah	Universität Basel	Other disciplines of Environmental Sciences	Isotope Fractionation of O2 Associated with Enzymatic and Photochemical Reactions in Aquatic Environments
Perarnau Llobet	Marti	Université de Genève	Theoretical Physics	Quantum Thermodynamics: From foundations to applications
Peters	Bradley	ETH Zürich	Geochemistry	The Hadean geochemical heritage of Earth's ancient and modern mantle
Portmann	Alexandra	Universität Bern	Theatre and Cinema	Festivals and Institutional Changes: Perspectives on International Theatre Production
Ramires	Aline	PSI Villigen	Condensed Matter Physics	New theoretical tools for the design and optimization of emergent phases of matter in complex materials
Ravagnani	Alberto	Universität Zürich	Mathematics	Structural Invariants of Codes and Networks -- A Lattice Theory Approach
Reiter	Florentin	ETH Zürich	Theoretical Physics	Dissipation Engineering of Fault-Tolerant Quantum Computation and Phases for Quantum Metrology
Rivas Velarde	Minerva Concepcion	Université de Genève	Health	Assessing the Impact of Video Remote Sign Language Interpreting in Healthcare: Linking Disability Studies with Empirical Challenges of Public Health Research
Romanello	Matteo	Université de Lausanne	Ancient history and Classical studies	How does a classical hero die in the digital age? Using Sophocles' Ajax to create a commentary on commentaries
Rosner	Agnes	Universität Zürich	Psychology	The mind's eye in episodic memory: Looking at things that are no longer there
Sachet	Paolo	Université de Genève	Swiss history	The Greek Imprint on Europe: Patristics and Publishing in the Early Swiss Reformation
Sacramento	João	ETH Zürich	Biophysics	Probabilistic learning in deep cortical networks
Schmolka	Nina Alexandra	Universität Zürich	Molecular Biology	Dissecting epigenetic mechanisms during early haematopoiesis
Schraff	Dominik	ETH Zürich	Political science	Regional Inequality and the Political Geography of EU Support

Name	First Name	Host Institution	Discipline	Project Title
Shalev	Netta	ETH Zürich	Geochemistry	Using oceanic Mg and Sr stable isotope records to understand the past Earth
Silva	Ralph	ETH Zürich	Theoretical Physics	An information-theoretic investigation of quantum clocks: from fundamental limits to novel implementations
Sommet	Nicolas	Université de Lausanne	Psychology	The Effects of Income Inequality on Psychological Functioning
Soter	Anna	ETH Zürich	Particle Physics	Cold Muonium Beam for Atomic Physics and Antimatter Gravity
Tapscott	Rebecca	IHEID Genève	Political science	The Transnational Politics of Ethics Review: A Study of the Effects of Ethical Regulations on Political Voice in Global South Countries
Trein	Josef Philipp	Université de Genève	Political science	The Politicization of E-Government. A Comparative Analysis across Policy Domains and Countries
Veneziale	Marco	Universität Zürich	Romance languages and literature	Les poètes de François Ier et la naissance du pétrarquisme français. Une nouvelle approche philologique
Wunsch	Natasha	ETH Zürich	Political science	Democratic Backsliding in Eastern Europe: Sequence, Strategies, and Citizens
Yilmaz	Bahtiyar	Universität Bern	Medical Microbiology	Evolutionary dynamics of bacteria in the intestines of IBD patients

### Ambizione Call Nov. 2017: 11<sup>th</sup> Call (90 grants)

Name	First Name	Host Institution	Discipline	Project Title
Abreu	Elsa	ETH Zürich	Condensed Matter Physics	Exploring superconductivity pathways in low dimensional spin-ladder and spin-chain compounds
Achermann	Dania	Universität Bern	General history (without pre-and early history)	Ice Cores, Small States and Global Climate Change: The rise of a new scientific discipline
Altamura	Carlo Edoardo	IHEID Genève	General history (without pre-and early history)	Business with the Devil? Assessing the Financial Dimension of Authoritarian Regimes in Latin America, 1973-1985
Averill	Colin	ETH Zürich	Ecology	Alternative stable states of the forest microbiome: causes and carbon-climate consequences of forest mycorrhizal game interactions
Banik	Subhadeep	EPF Lausanne	Electrical Engineering	Energy Efficient Cryptography



Name	First Name	Host Institution	Discipline	Project Title
Barcat	Dominique	Université de Fribourg	Ancient history and Classical studies	Présence de l'Égypte dans la glyptique d'époque romaine impériale
Bärnreuther	Sandra	Universität Zürich	Ethnology	Visions of the Social: The Transformation of State Planning in Postcolonial India
Baud	Maxime	Universität Bern	Neurophysiology and Brain Research	Chronobiology of Seizure Risk in Epilepsy
Baumann	Isabel	ZHAW Winterthur	Sociology	Health inequalities and the prolongation of working life
Betancourt	Christopher	Universität Zürich	Particle Physics	Novel detector technologies for precision measurements in particle physics experiments
Bianchi	Renzo	Université de Neuchâtel	Psychology	ETIOLOGY OF THE BURNOUT SYNDROME: A THREE-WAVE STUDY
Bischof	Daniel	Universität Zürich	Political science	The Causes and Consequences of Extreme Party Entry
Borduas	Nadine	ETH Zürich	Climatology. Atmospherical Chemistry, Aeronomy	Organic aerosols' impact on aerosol-cloud interactions in mixed-phase clouds
Brugger	Eva	Universität Zürich	General history (without pre-and early history)	Global Material Desires. Beaver Fur Trade and the Creation of Markets in the 17th century
Bueno	Nicolas	Universität Zürich	Legal sciences	Human Economy: Rethinking Economic Human Rights in the Global Economy
Carattini	Stefano	Universität St.Gallen	Economics	Peer Effects, Environmentalism and Renewables' Spread II (PEERS II)
Carmona	Santiago	Université de Lausanne	Molecular Biology	A meta-analysis of single-cell transcriptomics data to characterize the landscape of tumor infiltrating T-cells
Cheval	Boris	Université de Genève	Psychology	Behaviors minimizing energetic cost: A reward?
Chiodo	Gabriel	ETH Zürich	Meteorology	The Overlooked Role of Stratospheric Ozone in forcing Northern Hemispheric climate (TORSO)
Conte	Giulio	Cardiocentro Ticino	Clinical Cardiovascular Research	A NOVEL APPROACH TO ASSESS ATRIAL ELECTRICAL ABNORMALITIES IN PATIENTS WITH BRUGADA SYNDROME: FROM THE ECG TO THE CREATION OF A PATIENT-SPECIFIC CARDIAC MODEL
Courtin	Julien	FMI Basel	Neurophysiology and Brain Research	Amygdala circuit mechanisms of goal-directed behavior

Name	First Name	Host Institution	Discipline	Project Title
De Luca	Marta	Universität Basel	Condensed Matter Physics	Quantum structures in nanowires: physical properties on demand by hydrogen irradiation
Drozdovskaya	Maria	Universität Bern	Astronomy, Astrophysics and Space Sciences	The planetary cookbook: chemical composition of volatiles and refractories from star-forming regions to comets and planetesimals
Efthimiou	Orestis	Universität Bern	Medical Statistics	Predicting the real-world effectiveness and safety of medical interventions
Favino	Marco	Université de Lausanne	Mathematics	Unraveling the attenuation and velocity dispersion of seismic waves in complex fractured media by means of multilevel simulations
Fioretta	Emanuela	Universität Zürich	Cardiovascular Research	Development of regenerative aortic valves for minimally invasive implantation
Gerber	Thomas	EPF Lausanne	Mathematics	Representations of finite groups and quantum groups: categorification, combinatorics and interactions
Girard	Charles	Université de Genève	Philosophy	La forme dans tous ses états : forme et types de formes dans les commentaires au Livre des six principes (XIIIe-XIVe)
Giuliani	Andrea	Université de Genève	Geochemistry	A new understanding of kimberlite magmas from deep Earth to diamond mines
Gonzalez	Diego	Université de Neuchâtel	Experimental Microbiology	Circadian Timekeepers in Proteobacteria
Grätz	Michael	Université de Lausanne	Sociology	The Intergenerational Consequences of Demographic Behaviour: Estimating the Effects of Parental Union Formation and Fertility on Educational Mobility
Günther	Tobias	ETH Zürich	Information Technology	Guided Large-Scale Exploration of Meteorological Data
Hagelberg	Janis	Université de Genève	Astronomy, Astrophysics and Space Sciences	Planets with Two Suns
Hämmerli	Johannes	Universität Bern	Geochemistry	Microanalysis of halogens and volatiles in apatite: A new tool for understanding the composition and role of fluids in the evolution of the continental crust.
Harms	Alexander	Universität Basel	Experimental Microbiology	Phages to the front: Exploiting bacterial viruses to control antibiotic-tolerant infections
Hazak	Ora	Université de Fribourg	Molecular Biology	CLE peptides-unraveling the functions in root growth and adaptations

Name	First Name	Host Institution	Discipline	Project Title
Ihli	Johannes	PSI Villigen	Inorganic Chemistry	Resonant Coherent Diffraction Imaging, Towards Quantitative Nanoscopic Correlation Spectromotography in Heterogeneous Catalysis
Kienzler	Daniel	ETH Zürich	Other disciplines of Physics	High-level control and spectroscopy of single trapped molecular ions
Kneer	Markus	Universität Zürich	Philosophy	Reading Guilty Minds
Kohler	Philipp	Kantonsspital St.Gallen	Infectious Diseases	Antibiotic resistant gram-negative pathogens in Switzerland: Epidemiology in nursing homes and detection of patient clusters across different institutions and clinical settings
Laketa	Suncana	Université de Neuchâtel	Social geography and ecology	Terrorism and the city: affect, space and violence in urban Europe
Lambert	Charles-Henri	ETH Zürich	Material Sciences	Antiferromagnetic materials for magneto- and opto-electronics
Lambert	Gaultier	Universität Zürich	Mathematics	Asymptotic aspects of the theories of free fermions and beta-ensembles
Lasauskaite	Ruta	Universität Basel	Psychology	Influence of lighting on mental effort and on motivational deficit caused by fatigue
Le Bihan	Baptiste	Université de Genève	Philosophy	Composing the World Out of Nowhere: The Mereological Structures of Quantum Gravity
Leal	Allan	ETH Zürich	Mathematics	Innovative Computational Methods for Ultra-Fast Simulations of Coupled Physical and Chemical Processes Using Machine Learning and GPU Parallel Computing
Lehmann	Marco	WSL Birmensdorf	Other disciplines of Environmental Sciences	From assimilates towards tree-rings – Triple isotope analysis of carbohydrates (TreeCarbo)
Li	Xiangyi	Université de Neuchâtel	Ecology	Towards a more biologically informed evolutionary game theory
Loukas	Andreas	EPF Lausanne	Information Technology	Deep Learning for Graph-structured data
Luo	Wen	EPF Lausanne	Physical Chemistry	Investigation of CO <sub>2</sub> hydrogenation on Metal Clusters with NAP-XPS (CO <sub>2</sub> Clé)
Lustenberger	Caroline	ETH Zürich	Neurophysiology and Brain Research	Boosting sleep to excel during the day: Elucidating the influence of sleep network dynamics on brain and body health
Machek	David	Universität Bern	Philosophy	Carving up moral motivation in ancient Chinese and Greek thought

Name	First Name	Host Institution	Discipline	Project Title
Manhart	Michael	ETH Zürich	Experimental Microbiology	Molecular mechanisms and evolutionary consequences of pleiotropy and single-cell variation in microbial growth
Martin Moraud	Eduardo	Université de Lausanne	Biomedical Engineering	Brain-controlled neuromodulation therapies to address gait impairments in Parkinson's disease
Matsuda	Shinya	Universität Basel	Embryology, Developmental Biology	Investigating organ patterning and growth by the Dpp/BMP morphogen gradient using novel synthetic receptors
Moser	Simon	Universität Zürich	Condensed Matter Physics	Functional transition metal oxides
Müller	Annalena	Université de Fribourg	General history (without pre-and early history)	Powerful Piety. Practices of Female Abbatial Authority in Medieval Europe (c. 1200-1450)
Naef	Patrick	Université de Genève	Social geography and ecology	La construction d'un modèle de 'ville résiliente' dans le programme '100 Resilient Cities' : Regards croisés sur La Nouvelle-Orléans et Medellín
Ngosso	Mathieu Thierry	Universität St.Gallen	Philosophy	Droit à la santé et aux soins de santé et responsabilité des Etats et des entreprises en Afrique Subsaharienne
Nlandu Khodo	Stellor	Universität Zürich	Cellular Biology, Cytology	Deleting the TGF- $\beta$ Receptor Impairs Proximal Tubule Response to Chronic Injury
Padmanabhan	Hamsa	Université de Genève	Astronomy, Astrophysics and Space Sciences	Probing the universe: through reionization and beyond
Pascucci	David	EPF Lausanne	Psychology	Serial dependence in perception and decision-making
Pellizzoni	Michela Maria	Université de Fribourg	Inorganic Chemistry	Functional Reprogramming of Natural and Unnatural Polymers by Atom Transfer Radical Addases (ATRAase)
Pezzato	Cristian	EPF Lausanne	Organic Chemistry	Metastable-State Photoacids and Electrochemical Cells
Pikor	Natalia	Kantonsspital St.Gallen	Immunology, Immunopathology	Identification and manipulation of immune-stimulating fibroblastic stromal cell niches in the inflamed CNS
Richetto	Juliet	Universität Zürich	Neurophysiology and Brain Research	Microbiota-dependent epigenetic programming of specific CNS cell populations
Rickhaus	Michel	Universität Zürich	Organic Chemistry	n-Saddles Made to Order: Synthesis, Dynamics, and Cooperative Behaviour
Saintilan	Nicolas	ETH Zürich	Geochemistry	Understanding osmium (Os) recycling during subduction zone metamorphism

Name	First Name	Host Institution	Discipline	Project Title
Serra	Joaquim	ETH Zürich	Mathematics	A geometric approach to nonlinear elliptic and parabolic equations
Shoshan	Michal	Universität Zürich	Inorganic Chemistry	Selective Heavy Metal Detoxification by Short Peptides: A New Approach for Chelation Therapy
Simonov	Arkadiy	ETH Zürich	Condensed Matter Physics	Optimizing functional materials through tailored disorder
Singh	Devani	Université de Genève	German and English languages and literature	To the Reader: The English Preface in Print, c. 1475-1623
Solly	Emily	ETH Zürich	Other disciplines of Environmental Sciences	When trees die: Understanding how plants and microbes interact and influence soil biogeochemical processes
Sossi	Paolo	ETH Zürich	Geochemistry	Experimental and stable isotope constraints on the accretion and differentiation of the terrestrial planets
Stegmayer	Katharina	Universität Bern	Neurology, Psychiatry	Biomarkers of interpersonal space regulation in schizophrenia: a physiological and neuroimaging study
Stoll-Knecht	Anna	SUPSI Verscio	Musicology	Music and Clowning in Europe, 20th.-21st centuries
Stuart	Michael	Université de Genève	Philosophy	Imagination in Science: What is it, how do we learn from it, and how can we improve it?
Tancredi	Lorenzo	ETH Zürich	Particle Physics	Scattering amplitudes at high loops and multiplicities
Timofeeva	Mariia	ETH Zürich	Material Sciences	All-dielectric nanowires as building blocks for nonlinear photonics
Tocci	Gabriele	Universität Zürich	Physical Chemistry	Ab Initio Nanofluidics: Electronic Structure and Transport Properties for Osmotic Energy Conversion
Trifunovic	Luka	Universität Zürich	Condensed Matter Physics	Strong and weak topological insulators and superconductors
Weber	Nadir	Universität Bern	General history (without pre-and early history)	Falken in der Höfischen Gesellschaft: Interspezifische Interaktionen und symbolische Repräsentation von Königsherrschaft in Europa (17. und 18. Jahrhundert)
Wendling	Carolin	ETH Zürich	Experimental Microbiology	Evolution and Spread of Antibiotic Resistance Encoded by Prophages
Woods	Mischa	ETH Zürich	Theoretical Physics	The resource of time in quantum information theory
Yamine	Sophie	Universität Bern	Paediatrics	Combination of functional imaging and detailed lung function assessment to describe lung development in preterm children

Name	First Name	Host Institution	Discipline	Project Title
Zander	Thea	Universität Basel	Psychology	Intuition and “jumping to conclusions” in schizophrenia: Studying the temporal relationship in daily life and with neuroimaging
Zeymer	Cathleen	ETH Zürich	Organic Chemistry	Design and Directed Evolution of Metal-Dependent Protein Catalysts for Non-Natural Chemical Transformations
Zimmer	Stephan	Universität Zürich	Astronomy, Astrophysics and Space Sciences	Shedding New Light on Particle Acceleration Processes in Clusters of Galaxies
Zoller	Max	PSI Villigen	Theoretical Physics	High precision calculations for the Large Hadron Collider - Automation at NNLO
Zscheischler	Jakob	Universität Bern	Climatology, Atmospheric Chemistry, Aeronomy	New metrics for constraining multiple drivers of hazard and compound hazards

#### Ambizione Call Jan. 2017: 10<sup>th</sup> Call (89 grants)

Name	First Name	Host Institution	Discipline	Project Title
Agoritsas	Elisabeth	EPF Lausanne	Theoretical Physics	Field-theoretical approaches for the plasticity in sheared amorphous materials
Aubert	Alice H.	EAWAG Dübendorf	Other disciplines of Environmental Sciences	Environmental Decision Analysis with Games – Edanaga
Bengoechea	Paloma	ETH Zürich	Mathematics	Modular Forms and Diophantine Approximation
Blanchoud	Simon	Université de Fribourg	Embryology, Developmental Biology	Whole-body regeneration in <i>Botrylloides leachii</i>
Bloch	Elias	Université de Lausanne	Geochemistry	Diffusion kinetics of U, Th, Pb, Hf and REEs in baddeleyite, and development of local electrode atom probe tomography as a means to analyze experimentally induced diffusion profiles in crystalline materials
Bower	Daniel	Universität Bern	Astronomy, Astrophysics and Space Sciences	The formation and interior dynamics of super-Earths
Burla	Maurizio	ETH Zürich	Microelectronics, Optoelectronics	Millimeter-wave on-chip wireless-optical transceivers for 5G wireless communications

Name	First Name	Host Institution	Discipline	Project Title
Cametti	Georgia	Universität Bern	Mineralogy	Insight into sorption mechanism of natural zeolites: Investigation of the bulk structural and surface-modifications after heavy-metal treatment in aqueous solutions
Caprettini	Bruno	Universität Zürich	Economics	Structural Change: Lessons from the Present and from the Past
Colombi	Andrea	ETH Zürich	Mechanical Engineering	Structured materials for multiscale wave control
Comte	Denis	Université de Lausanne	Immunology, Immunopathology	Restoration of IL-2 response and cytotoxic capacity of CD8+ T cell and NK cell from systemic lupus erythematosus patients
Critten	Rory	Université de Fribourg	German and English languages and literature	Practising French in Fifteenth-Century England
De Cian	Michel	EPF Lausanne	Particle Physics	Probing right-handed currents in quark flavour physics
Delvendahl	Igor	Universität Zürich	Neurophysiology and Brain Research	Presynaptic mechanisms mediating robustness and plasticity of synaptic function
Dolveck	Franz	Université de Genève	Ancient history and Classical studies	Ausone, aux sources médiévales d'un problème antique (IVe-XVIIe siècle)
Dorn	Caroline	Universität Zürich	Astronomy, Astrophysics and Space Sciences	Planetary Diversity
Eickhoff	Carsten	ETH Zürich	Information Technology	Representation Learning for Clinical Artificial Intelligence
Fabre	Pierre	Université de Genève	Genetics	Chromatin Organization and Transcriptional Regulation of Axon Guidance Decision
Federau	Christian	Universität Zürich / ETH Zürich	Biomedical Engineering	Measuring Perfusion with Intra-Voxel Incoherent Motion
Filippone	Michele	Université de Genève	Condensed Matter Physics	Dynamics of strongly correlated quantum systems and devices
Foth	Christian	Université de Fribourg	Palaeontology	The phylogenetic relationship of theropod dinosaurs and the role of heterochrony in the deep origin of birds
Frey	Renato	Universität Basel	Psychology	Mapping the ecology of risk taking: A test of the generalizability of the construct risk preference to real-life behaviors
Gavazov	Konstantin	WSL Birmensdorf	Other disciplines of Environmental Sciences	Can forest expansion in mountain ecosystems generate a positive feedback to climate change: the unseen role of symbiotic mycorrhizae

Name	First Name	Host Institution	Discipline	Project Title
Gehring	Kai	Universität Zürich	Economics	Threats to the stability of nations? Resources, identities and conflict
Gibertini	Marco	Université de Genève	Condensed Matter Physics	Topology and magnetism in novel 2D materials and interfaces
Gorji	Mohammadhossein	EPF Lausanne	Fluid Dynamics	General-Purpose Low-Variance Continuous Stochastic Processes for Gases and Plasmas
Graham	Alexander	ETH Zürich	Inorganic Chemistry	Toward High-Throughput Quantitative Analysis of Nanoparticle Pollution in Environmental Samples
Grossiord	Charlotte	WSL Birmensdorf	Ecology	Forest under Stress: Understanding how Species interact and adjust to Climate Change
Gullans	Michael	ETH Zürich	Theoretical Physics	Strongly Correlated Quantum Optics - SCQO
Hallama	Peter	Universität Bern	General history (without pre-and early history)	Sozialistische Vaterschaft. Zukunftsvorstellungen und familiärer Alltag in Ostmitteleuropa
Hediger	Karin	Universität Basel	Psychology	Psychophysiological effects of animal-assisted interventions in patients with brain injury
Henny	Sundar	Universität Bern	General history (without pre-and early history)	Navel of the World: Cross-Cultural Encounters at the Church of the Holy Sepulchre, 1400–1600
Hofer	Matthias	Universität Zürich	Communication sciences	Older adults' media use and well-being: Media use as a resource in the process of healthy aging
Jeon	Jaeyoung	Université de Lausanne	Religious studies, Theology	A Bible Born out of Conflicts: a Literary and Socio-historical Study of the Aaronide/Zadokite and Levite Scribal Debates in the Persian Period
Jiskra	Martin	Universität Basel	Other disciplines of Environmental Sciences	Seasonal impact of vegetation on atmospheric elemental mercury dry deposition
Junge	Till	EPF Lausanne	Other disciplines of Engineering Sciences	Open-Source Platform for Efficient FFT-based Continuum Mesoscale Modelling
Kedziorek	Magdalena	EPF Lausanne	Mathematics	Exploring Equivariant Homotopy Theory
Kilcher	Samuel	ETH Zürich	Experimental Microbiology	Synthetic Bacteriophage Platform for Diagnostics and Control of Drug-Resistant Pathogenic Bacteria
Kling	Sabine	ETH Zürich	Other disciplines of Engineering Sciences	Measuring local corneal biomechanical properties by multi-frequency vibrography: Moving towards an earlier diagnosis of pathologies and personalized computer simulations



Name	First Name	Host Institution	Discipline	Project Title
Kumpulainen	Tatu	Université de Genève	Physical Chemistry	Excited-State Proton Transfer in Solutions and at Biologically Relevant Interfaces
Kurpisz	Adam Andrzej	ETH Zürich	Mathematics	Theory and Applications of Linear and Semidefinite Relaxations for Combinatorial Optimization Problems
Labidi-Galy	Sana Intidhar	Université de Genève	Experimental Cancer Research	Impact of oophorectomy on breast cancers in BRCA1 mutation carriers
Langlet	Fanny	Université de Lausanne	Neurophysiology and Brain Research	Tanycyte glucose-sensing: dissection of specific subpopulation mechanisms and their implication in the control of energy metabolism
Laufkötter	Charlotte	Universität Bern	Other disciplines of Environmental Sciences	Global interactions between microplastics and marine ecosystems
Lebreton	Maël	Université de Genève	Neurophysiology and Brain Research	A neuro-computational investigation of value precision
Lehner	Flavio	ETH Zürich	Climatology, Atmospheric Chemistry, Aeronomy	Constraining dynamic and thermodynamic drivers of mid-term regional climate change projections for Northern mid-latitudes
Li	Jin	Universität Bern	Cardiovascular Research	Autoimmune Channelopathies of the Heart
Lodha	Yash	EPF Lausanne	Mathematics	Amenability, geometric group theory and low dimensional dynamics
Lorenzini	Jasmine Choko	Université de Genève	Political science	Political Consumerism in Switzerland: Linking Food Consumption, Conceptions of Citizenship, and Political Engagements
Marchioro	Arianna	EPF Lausanne	Physical Chemistry	Understanding Photoinduced Processes at Semiconductor/Aqueous Interfaces by Surface-Specific Spectroscopic Techniques
Marthot-Santaniello	Isabelle	Universität Basel	Ancient history and Classical studies	Reuniting fragments, identifying scribes and characterizing scripts: the Digital paleography of Greek and Coptic papyri.
Matusz	Pawel	HES-SO Sierre	Applied psychology	Understanding the role of attention in visual rehabilitation: Amblyopia as a model
Mauger	Oriane	Universität Basel	Molecular Biology	Exploration of novel pathways for rapid gene regulation during neuronal plasticity
Momotenko	Dmitry	ETH Zürich	Physical Chemistry	Single Entities at High Magnification: Mapping, Measuring and Manipulating Nanoparticles

Name	First Name	Host Institution	Discipline	Project Title
Mostowlansky	Till	IHEID Genève	Other languages and literature	Genealogies of Development: Shia Muslim Giving Across Asia
Müller-Suleymanova	Dilyara	ZHAW Zürich	Ethnology	Trasnationalisation of conflicts: youth from ex-Yugoslav and Turkish diasporas in Switzerland and their relation to homeland conflicts
Murer	Cristina	Universität Bern	Archaeology	Transformation von Stadt, Staat und Grab: spätantike Grabplünderungen und Wiederverwendung von Grabplastik
Nogly	Przemyslaw	ETH Zürich	Biophysics	A three-dimensional movie of the structural changes in a membrane chloride pump revealed by X-ray Free Electron Laser pulses.
Olias	Philipp	Universität Bern	Cellular Biology, Cytology	Theileria effectors transforming host cells into cancer-like cells
Paillard	Elodie	Universität Basel	Ancient history and Classical studies	Le Théâtre grec en Italie durant l'époque républicaine
Pfister	Eugen	HK Bern	General history (without pre-and early history)	Horror – Game – Politics. Die visuelle Rhetorik politischer Mythen in digitalen Horrorspielen
Pflaum	Sonja	Universität Basel	Legal sciences	Wiedergutmachung – eine rechtsvergleichende und empirische Untersuchung zu Art. 53 StGB
Potarca	Gina Felicia	Université de Genève	Sociology	How Does the Internet Change Modern Romance?
Rademaker	Louk	Université de Genève	Condensed Matter Physics	Sluggish quantum matter: slow dynamics in many-body localized and glassy systems
Ribeiro de Resende Alves	Marcelo	Université de Neuchâtel	Mathematics	Entropies of Reeb flows and its relations to symplectic topology and Hamiltonian dynamics
Riemer	Stefanie	Universität Bern	Ethology	Reward sensitivity in dogs – risk factor for addictive behaviour and key to trainability
Rösli	Lukas	Universität Zürich	Other languages and literature	Gedächtniskultur im Paratext – Textträger altnordischer Prosahandschriften
Rottmann	Michael	FHNW Basel	Visual arts and Art history	Automatisierte Innovationen. Maschinenkünste des 20. und 21. Jahrhunderts im Spannungsdreieck von Subjekt, Medium und Prozess und ihre Beiträge zu Kreativitätsdiskursen
Ruiz de Elvira Carrascal	Jacobo	Universität Bern	Particle Physics	Dispersive techniques for light meson interactions and spectroscopy

Name	First Name	Host Institution	Discipline	Project Title
Rybkin	Vladimir	Universität Zürich	Physical Chemistry	Condensed-Phase Quantum Chemistry via Embedding Theory
Saha	Arunabha	Université de Genève	Theoretical Physics	The Large D Black Hole Membrane Paradigm
Salvi	Nicola	ETH Zürich	Physical Chemistry	Protein dynamics and disorder in the activation of DNA transcription
Schild	Axel	ETH Zürich	Physical Chemistry	Exact Factorization Approach to the Dynamics of Molecules in Strong Laser Fields
Schneider	Maude	Université de Genève	Psychology	Towards an embodied and ecological understanding of social impairments in neurodevelopmental disorders
Schwiedrzik	Johann Jakob	EMPA Dübendorf	Material Sciences	Nanoscale deformation mechanisms and yield prediction of lamellar bone
Siclari	Francesca	Université de Lausanne	Neurology, Psychiatry	Is anybody there? A systematic assessment of consciousness and environmental disconnection in sleepwalkers
Silva Coutinho	Rafael	Universität Zürich	Particle Physics	Flavour anomalies and matter-antimatter asymmetry in b-baryon decays
Simmler	Linda	Université de Genève	Neurophysiology and Brain Research	Mechanism-Based Reversal of Pathological Synaptic Plasticity in Obsessive-Compulsive Disorder as Strategy for Pharmacological Treatment
Šolomek	Tomáš	Universität Basel	Organic Chemistry	Three-Dimensional Molecular Electron Acceptors for Efficient Electron-Transporting Materials
Stoek	Christian	ETH Zürich	Other disciplines of Engineering Sciences	MR guided biomechanical modelling of the heart – a novel tool to predict remodelling in heart failure
Szulagyfi	Judit	Universität Zürich	Astronomy, Astrophysics and Space Sciences	Catching Planets in Formation: The Role of Circumplanetary Disks
Tarlazzi	Caterina	Université de Genève	Philosophy	Naturae. Natural Kinds in the Teaching of Peter Abelard and His Rivals, c. 1090-1160
Traber	Denise	Universität Luzern	Political science	The divided people: polarization of political attitudes in Europe
Uecker	Hildegard	ETH Zürich	Ecology	The role of plasmids in bacterial adaptation
Vagni	Giacomo	Université de Lausanne	Romance languages and literature	Lirici del Cinquecento da Crescimbeni a Croce. Il petrarchismo come mito fondativo della modernità letteraria italiana
Valentini	Martina	Université de Genève	Experimental Microbiology	RNA-binding proteins as multifaceted regulators of Pseudomonas aeruginosa lifestyles

Name	First Name	Host Institution	Discipline	Project Title
von Rohr	Fabian	Universität Zürich	Inorganic Chemistry	Chemistry and Physics of Nitride Based Materials
Zaugg	Franziska	Universität Bern	General history (without pre-and early history)	Eine „longue durée“ der Gewalt? – Kriegsversehrte Gesellschaften in Südosteuropa
Zerbi	Valerio	ETH Zürich	Neurophysiology and Brain Research	Pharmacogenetic fMRI in brain circuits underlying social motivation and repetitive behavior

### Ambizione Call 2016: 9<sup>th</sup> Call (71 grants)

Name	First Name	Host Institution	Discipline	Project Title
Armas	Jacome	Universität Bern	Theoretical Physics	Effective theories for black holes, soap bubbles and biophysical membranes
Asmussen	Tina	ETH Zürich	General history (without pre-and early history)	Hort – Laboratorium – Kunstammer: Eine Materialgeschichte des Bergbaus in der Frühen Neuzeit, 1470-1630
Aterianus	Alice	Université de Lausanne	Ethnology	Incorporer « l'africanité ». Circulations, créations et catégorisations identitaires dans la pratique des danses africaines (France, Suisse)
Bastiaansen	Josefina	Université de Lausanne	Cardiovascular Research	Translational hyperpolarized metabolic imaging of the heart for the quantification of metabolic changes in chemotherapy-induced cardiotoxicity
Betz	Matthias	Universität Basel	Clinical Endocrinology	Influence of glucocorticoids on human brown adipose tissue and cold induced thermogenesis
Bibow	Stefan	Universität Basel	Biophysics	Structure, function and dynamics of the Ragulator multiprotein complex
Blazek	Jonathan	EPF Lausanne	Astronomy, Astrophysics and Spatial Sciences	Accurate Cosmology with Observations of Galaxies
Bruand	Emilie	Universität Bern	Geochemistry	The evolving continental crust: contributions from the accessory mineral archive
Capogrosso	Marco	Université de Fribourg	Other Disciplines of Engineering Sciences	Design of epidural implants and electrical stimulation protocols for the recovery of ARM control after spinal cord injury. (D-ARM)
Collet	Tinh-Hai	Université de Lausanne	Clinical Endocrinology	The metabolic effects and mechanisms of time restricted feeding in individuals with metabolic syndrome

Name	First Name	Host Institution	Discipline	Project Title
Croizier	Sophie	Université de Lausanne	Neurophysiology and Brain Research	Role of guidance proteins in the development of afferent inputs to hypothalamic neurons involved in energy homeostasis: influence of maternal obesity
De Cosa	Annapaola	Universität Zürich	Particle Physics	Search for Dark Matter particles in semi-visible jets at the Large Hadron Collider
Diaconescu	Andreea	Universität Basel	Neurophysiology and Brain Research	Neurocomputational Modelling of Delusions and its Clinical Utility for Psychosis
Diviani	Nicola	Universität Luzern	Communication Sciences	New insights into the concept of critical health literacy: Development and validation of a measure of health information appraisal skills.
Filipowicz Sinnreich	Magdalena	Universität Basel	Immunology, Immunopathology	Role of MAIT cells in liver diseases and liver fibrogenesis
Franke	Felix	ETH Zürich	Neurophysiology and Brain Research	Position Dependence of Retinal Computation
Furrer	Fabian	ETH Zürich	Theoretical Physics	Theoretical Foundations of Practical High-Security and Long-Distance Continuous-Variable Quantum Key Distribution
Garzia	Diego	Universität Luzern	Political Science	Personalization of Politics between Television and the Internet
Genschow	Oliver	Universität Basel	Psychology	The role of anticipative processes in social behavior
Gomez de Agüero Tamargo	Mercedes	Universität Bern	Immunology, Immunopathology	Role of maternal microbiota and aryl hydrocarbon receptor signalling in establishing neonatal skin homeostasis
Groner	Anna	ETH Zürich	Experimental Cancer Research	Dissecting the role of the epigenetic reader function of TRIM24 in driving endocrine therapy-resistant prostate cancer
Grosser	Tobias	ETH Zürich	Information Sciences	Automatized compilation of sequential software to a diverse set of hardware accelerators
Grosz	Mirina	Universität Basel	Legal Sciences	Staatliche Aufsicht über Private (Arbeitstitel)
Hartmann	Matthias	Universität Bern	Psychology	Exploring the numerical mind by eye-tracking: Brain, cognition and action
Isogai	Shin	Universität Basel	Structural Research	Elucidating allosteric signal transmission in the beta1-adrenergic receptor
Jacquin	Jérôme	Université de Neuchâtel	Romance Languages and Literature	E-STAMP. Le positionnement épistémique au prisme de la multimodalité

Name	First Name	Host Institution	Discipline	Project Title
Jayaraman	Rajeswari	EPF Lausanne	Condensed Matter Physics	Real time magnon dynamics for next generation magnonic devices
Johnson	Daniel	EPF Lausanne	Particle Physics	A New Virtual Laboratory for Exotic Particle Searches
Kang	Joohyun	Universität Zürich	Molecular Biology	Establishing a system for the identification of Plant ABC transporter substrates and mechanisms
Katayev	Dmitry	ETH Zürich	Organic Chemistry	Development of Novel Iron-Catalyzed Oxidative Transformations of Inert C(sp <sup>3</sup> )-H Bonds
Kehr	Janina	Universität Bern	Ethnology	Austerity Medicine. Precarious Healthcare in Contemporary Spain
Khan	Adil	Universität Basel	Neurophysiology and Brain Research	Circuit mechanisms of cognitive control and their deficiencies in mouse models of schizophrenia
King	Georgina	Universität Bern	Geochronology	Constraining the role of erosion in feedbacks between tectonics and climate: Quaternary evolution of the Japanese Alps
Koller	Ariane	Universität Bern	Visual Arts and Art History	Stoffe der Trauer - Stoffe der Macht. Objekte der Repräsentation in der höfischen Funeralkultur der Frühen Neuzeit
Kühne	Lars	Universität Basel	Mathematics	Diophantine and Arithmetic Geometry
Kundu	Dipan	ETH Zürich	Material Sciences	Design and Development of Novel Solid Electrolytes for High Energy Batteries
Langkau	Julia	Université de Fribourg	Philosophy	Learning from Literary Narratives
Lardo	Carmela	EPF Lausanne	Astronomy, Astrophysics and Spatial Sciences	Globular clusters or dwarf galaxy relics : the mystery of multiple populations
Lopez Mejia	Isabel Cristina	Université de Lausanne	Molecular Biology	Role of the SR protein SRSF1 in the integration of gene expression in adipose tissue during metabolic syndrome
Malvoisin	Benjamin	Université de Lausanne	Geology	Mineralogical processes and rate of serpentinization at mid-ocean ridges - Experimental and numerical modelling of the couplings between reaction, deformation and fluid flow
Mégevand	Pierre	Université de Genève	Neurophysiology and Brain Research	The neuronal mechanisms underlying the perception of auditory and visual speech
Milekovic	Tomislav	Université de Genève	Other Disciplines of Engineering Sciences	Error-adaptive decoding algorithms for stable and independent brain-computer interfaces

Name	First Name	Host Institution	Discipline	Project Title
Mitrano	Denise	EAWAG Dübendorf	Other Disciplines of Environmental Sciences	The path of microplastics to the environment: fate and transport in waste water treatment systems
Montorsi	Francesco	Universität Zürich	Romance languages and literature	Écrire les Anciens. Enquête littéraire et historique sur les représentations du passé dans la France médiévale (1150-1350).
Natterer	Fabian Donat	EPF Lausanne	Condensed Matter Physics	Single atom and molecule radio wave absorption spectroscopy
Navas Guzmán	Francisco Jesús	MeteoSwiss	Climatology, Atmospheric Chemistry, Aeronomy	Study of aerosol hygroscopic effect on optical and microphysical properties by means of remote sensing techniques (AEROHYGROPRO)
Nicoli	Miriam	Universität Bern	Swiss History	Traces de vie vécue. Parcours d'hommes et de femmes au prisme des écrits du for privé (Tessin et Grisons – fin XVIIe - première moitié XIXe siècles)
Nyström	Gustav	ETH Zürich	Material Sciences	Nanofiber Aerogels – from a Fundamental Understanding of Structure towards Transparent Flexible Insulation and Functional Hybrids
Payne	Annick	Universität Bern	Ancient History and Classical Studies	A History of Early Alphabetic Writing in Anatolia
Penner	Orion	EPF Lausanne	Economics	Untangling Researcher Mobility, Productivity, and Knowledge Fit
Petrow	Ian	ETH Zürich	Mathematics	Arithmetic Statistics and Trace Formulas
Piscuoglio	Salvatore	Universität Basel	Experimental Cancer Research	The landscape of long non-coding RNAs in triple negative breast cancers
Pistone	Mattia	Université de Lausanne	Geology	Petrophysics of the Melt Connectivity Transition: Petrological, Rheological, and Seismic Characterisation of the Continental Moho
Puig Navarro	Albert	Universität Zürich	Particle Physics	Probing the Standard Model of particle physics with rare beauty decays
Ramsey	Kathryn	Universität Bern	Paediatrics	Impact of Early Lung Physiology, Viral Infections and Microbiome on the Development and Progression of Lung Disease in Children with Cystic Fibrosis
Sandamirskaya	Yulia	Universität Zürich	Information Sciences	Embodied Long-Term Memory for Cognitive Neuromorphic Agents
Schmid	Evelyne	Universität Basel	Legal Sciences	Die pflichtwidrig unterlassene Umsetzung von völker- und europarechtlichen Normsetzungsaufträgen im schweizerischen Recht

Name	First Name	Host Institution	Discipline	Project Title
Schwab	Fabienne	Université de Fribourg	Environmental Research	Enhancing Legume Defenses: Exploring Bioinspired Nanomaterials to Support Plant Health
Stanley	Claire	Agroscope Zürich	Other Disciplines of Engineering Sciences	Microbiome-on-a-Chip: New frontiers in plant-microbiota research
Sternai	Pietro	Université de Genève	Geology	Linking deep Earth and surface dynamics: the effects of erosion on magma productivity
Szöcsik	Edina	Universität Basel	Political Science	Voter Turnout in Third-Wave Democracies
Tackmann	Björn	ETH Zürich	Information Sciences	Secure-by-Design Protocols for Secure Communication over the Internet
Tinti	Irene	Université de Genève	Other languages and literature	Plato in Ancient Armenian: Who Translated the Extant Dialogues, and When?
Trenholm	Stuart	FMI Basel	Neurophysiology and Brain Research	Brain rewiring after vision loss and rehabilitation
Tritten	Lucienne	Universität Zürich	Medical Microbiology	Secretory microRNAs of nematode parasites: small molecules for great success?
Ulrich	Yuko	Université de Lausanne	Ecology	Group Composition and Disease Susceptibility in Ant Societies
Valtorta	Daniele	Universität Zürich	Mathematics	Singularities of minimal surfaces
Walker	Mirella	Universität Basel	Psychology	Moral Character Matters. How Act, Actor, and Victim (Facial) Characteristics Impact Moral Judgments
Wilts	Bodo	Université de Fribourg	Condensed Matter Physics	Smart Optical Materials Inspired by Nature
Zoppe	Justin	Université de Fribourg	Organic Chemistry	Symmetric and Asymmetric Twisted Nanorods with End-Tethered Polymer Chains
Zurell	Damaris	WSL Birmensdorf	Ecology	SCODA - Scaling from individual interactions to community dynamics in avian assemblages

#### Ambizione Call 2015: 8<sup>th</sup> Call (67 grants)

Name	First Name	Host Institution	Discipline	Project Title
Alistarh	Dan	ETH Zürich	Information Sciences	Algorithms for a Computational Revolution



Name	First Name	Host Institution	Discipline	Project Title
Ayaz	Asli	Universität Zürich	Neurophysiology and Brain Research	Sensorimotor integration in head-restrained mice during exploratory locomotion
Baldauf	Tobias	Université de Genève	Astronomy, Astrophysics and Spatial Sciences	Understanding the History and Composition of the Universe using its Large Scale Structure
Bassolino	Michela	EPF Lausanne	Psychology	Boosting embodiment bypassing the body: a new approach based on transcranial magnetic stimulation and virtual reality
Böhne	Astrid	Universität Basel	Zoology	The role of sex determination in an adaptive radiation of cichlid fishes
Bordoli	Mattia	ETH Zürich	Molecular Biology	Investigating the biological function of the first secreted tyrosine kinase in liver regeneration
Born	Sabine	Université de Genève	Psychology	Space without motion - Judging object locations and distance in the absence of movement
Braakman	Floris	Universität Basel	Condensed Matter Physics	Ultrasensitive detection of quantum phenomena in nanowire hybrids
Braschler	Thomas	Université de Genève	Mechanical Engineering	In vivo perfused and stimulated scaffolds for neural cell therapy
Bruno	Flavio	Université de Genève	Condensed Matter Physics	Artificial heterostructures of strongly correlated oxides investigated by ARPES
Cavelti-Weder	Claudia	Universität Basel	Endocrinology	Activation and metabolism status of macrophages in metabolic disease and potential impact of tyrosine kinase inhibitors (TKIs)
Collins	Ben	ETH Zürich	Biochemistry	The host-pathogen protein interactome of Mycobacterium tuberculosis
Cougnon	Fabien	Université de Genève	Organic Chemistry	Molecular knots - Self-assembly and functionalization of topologically complex molecules
Couttenier	Mathieu	Université de Genève	Economics	Income Shocks and the Diffusion of Conflicts: Empirical Evidence and Policy Implications
Dan-Glauser	Elise	Université de Lausanne	Psychology	Affective consequences of emotion regulation relying on situation selection
Engelke	Sebastian	EPF Lausanne	Mathematics	Risk and Complex Events: from Probability to Applications
Facini	Laura	Université de Genève	Romance languages and literature	"Da l'uno a l'altro stilo". Prosody, rhythm and syntax of lyric poetry before Dante.
Fässler	Katrin	Université de Fribourg	Mathematics	Intrinsic rectifiability and mapping theory on the Heisenberg group

Name	First Name	Host Institution	Discipline	Project Title
Foresti	Loris	MeteoSwiss	Meteorology	Precipitation attractor from radar and satellite data archives and implications for seamless very short-term forecasting
Garçon	Marion	ETH Zürich	Geochemistry	Using Archean sedimentary rocks to understand how the first continents were formed
Gaume	Johan	EPF Lausanne	Other disciplines of Environmental Sciences	Multiscale analysis and modeling of slab avalanche release processes
Hagmann	Jonas	ETH Zürich	Political science	Securing the city: The global politics and practices of urban protection
Hollis	Brian	EPF Lausanne	Genetics	The challenges of a shared genome: an evolutionary genetic approach to understanding sexually antagonistic selection
Huber	Marcus	Université de Genève	Theoretical Physics	Quantum Information in Thermodynamics
Imperiali	Christophe	Universität Bern	Romance languages and literature	Measure and overmeasure. The seizure of duration in the poetic forms, compared to the musical ones (1820-1920)
Jandus	Camilla	Université de Lausanne	Experimental Cancer Research	Human innate lymphoid cells (ILCs): from their understanding at single cell level to defining their role in human cancer
Koren	Elad	IBM Research GmbH	Material Sciences	Accurate manipulation and control for studying 2D layered materials stacks
Krebs	Arnaud	FMI Basel	Molecular Biology	Single molecule characterization of transcription factor binding at mouse cis-regulatory regions.
Lamoth	Frédéric	Université de Lausanne	Medical Microbiology	Modeling the Hsp90-Hsp70 Network of Antifungal Resistance in <i>Aspergillus fumigatus</i>
Leuthold	Julien	ETH Zürich	Geochemistry	Lower crust gabbro partial melting in oceanic spreading ridges and its effect on percolating reactive mantle-derived melt
Manzotti	Paola	Université de Lausanne	Geochronology	Monazite behaviour in polycyclic rocks: a tool for better constraining the thermo-tectonic evolution of the Alpine belt
Martin	Lucie	Université de Genève	Archaeology	Life in the mountains. Prehistoric People-Plant Interactions in the Alps
Massa	Francesco	Université de Genève	Ancient history and Classical studies	Des «mystères» grecs et romains aux «mystères» chrétiens ? Un nouveau regard sur les contacts religieux du monde impérial romain
Matasci	Damiano	Université de Lausanne	General history (without pre-and early history)	From Regulation to "Development". Modernization and Educational Policies in the Global Age (1929-1961)

Name	First Name	Host Institution	Discipline	Project Title
Mensah	Amewu Antoinette	ETH Zürich	Climatology, Atmospherical Chemistry, Aeronomoy	Soot Particle Ageing Cloud Effects - SPACE
Meyer	Sara Christina	Universität Basel	Experimental Cancer Research	Mechanisms and targeting of oncogenic MAPK signaling in myeloid malignancies
Meyer	Matthias	Universität Bern	Cardiovascular Research	Role of G Protein-coupled Estrogen Receptor for Vascular Oxidative Stress and Insulin Resistance
Mikaberidze	Alexey	ETH Zürich	Ecology	Epidemiology of major wheat diseases: using eco-evolutionary models to learn from epidemic and genomic data
Müller	Sean	Universität Bern	Political Science	When Regions Decide: The politics of shared rule in Switzerland, Germany, the US and Canada
Natale	Simone	Università della Svizzera italiana	Communication sciences	Mind Reading Computers: A Historical Approach to the Imaginary of Digital Media
Natalucci	Giancarlo	Universität Zürich	Paediatrics	Impact of intrauterine growth restriction on brain development and consequences for later neurodevelopmental outcome: a prospective cohort study.
Osto	Elena	ETH Zürich	Pathophysiology	The communication between the cardiovascular system, the gut and the adipose tissue: from molecular mechanisms to targeted therapeutic approaches against cardiovascular disease in diabetes and obesity
Personnic	Nicolas	Universität Zürich	Experimental Microbiology	Phenotypic Heterogeneity of Legionella pneumophila in Phagocytes
Pillepich	Annalisa	EPF Lausanne	Astronomy, Astrophysics and Spatial Sciences	Multi-scale Structure Formation for Cosmological Insight: from Galactic Archaeology to Galaxy Clusters
Prins	Ferry	ETH Zürich	Physical Chemistry	Multiresonant Bull's Eyes for Plasmonic Surface Enhancement
Rey	Jeanne	Pädagogische Hochschule Fribourg	Ethnology	From the Alps to the world: Transnationalisation of Swiss private education
Rüegg	Janine	EPF Lausanne	Hydrology, Limnology, Glaciology	Predicting Patterns in Stream Foodweb Dynamics from Resource Subsidy and Environmental Fluctuations
Saffirio	Chiara	Universität Zürich	Mathematics	Derivation of the Boltzmann equation from classical and quantum dynamics

Name	First Name	Host Institution	Discipline	Project Title
Santello	Mirko	Universität Zürich	Neurophysiology and Brain Research	Cortical mechanisms controlling migraine pain
Santiago Cuellar	Julia	Université de Lausanne	Molecular Biology	Molecular mechanisms of receptor kinases in floral shedding and cell wall signaling
Scarvaglieri	Claudio	Université de Neuchâtel	German and English languages and literature	Urban Multilingualism in Switzerland: Communicative practices and language ideologies
Schikorra	Armin	ETH Zürich	Mathematics	Analysis and Geometry of nonlocal differential equations
Schneider	Aurel	ETH Zürich	Astronomy, Astrophysics and Spatial Sciences	Exploring the Dark Matter Sector with Astronomical Surveys
Schwander	Hanna	Universität Zürich	Political Science	Disentangle the modern gender vote gap – a refinement of women’s political alignment
Shimobayashi	Mitsugu	Universität Basel	Biochemistry	Identification of an mTORC2-regulated adipokine that improves $\beta$ cell function in diabetes
Stein	Sokrates	Universität Zürich	Cardiovascular Research	Exploration of transcriptional corepressor networks in atherosclerosis
Toll Riera	Macarena	Universität Zürich	Genetics	The evolution of innovations in cold-adapted bacteria
Trefzer	Claudia	ETH Zürich	Organic Chemistry	Trojan Horses for Targeted Drug Delivery into Mycobacteria
Trück	Johannes	Universität Zürich	Immunology, Immunopathology	Functional characterisation of the B cell compartment in children with antibody deficiency and following bone marrow transplantation
Ubrig	Nicolas	Université de Genève	Condensed Matter Physics	Optoelectronics of transition metal dichalcogenides: Physics and devices
Urwyler	Olivier	Universität Zürich	Cellular Biology, Cytology	Mechanisms of developmental synaptogenesis and of adult synapse dynamics in the CNS
Witz	Guillaume	Universität Basel	Experimental Microbiology	Uncovering basic regulatory mechanisms of the E. coli cell cycle by high-throughput single-cell time-lapse microscopy
Wyrzykowski	Mateusz	EMPA Dübendorf und EPF Lausanne	Material Sciences	Role of water redistribution in creep of concrete
Yarema	Maksym	ETH Zürich	Inorganic Chemistry	Colloidal nanocrystals of intermetallic compounds and alloys for phase-change memory applications
Zhang	Yang	ETH Zürich	Particle Physics	Multi-loop Scattering Amplitudes via Algebraic Geometry

Name	First Name	Host Institution	Discipline	Project Title
Zosso	Dominique	Universität Bern	Information Sciences	Beltrami on Graphs: Image Segmentation and Data Clustering with Minimal Surfaces
Züst	Tobias	Universität Bern	Ecology	Community consequences of novel toxic plant defenses: convergent evolution of cardenolides and alkaloids

### Ambizione Call 2014: 7<sup>th</sup> Call (60 grants)

Name	First Name	Host Institution	Discipline	Project Title
Aiyangar	Ameet	EMPA Dübendorf	Mechanical Engineering	Integrating Dynamic In Vivo Imaging And Computational Modelling: A New Paradigm To Study Lumbar Spine Biomechanics
Ariga	Tomoko	Universität Bern	Particle Physics	Development of next generation emulsion particle detectors and readout devices
Battegay	Caspar	Université de Lausanne	German and English languages and literature	A History of Possibility. Utopia and Diaspora in the German-Jewish Imagination
Berth	Christiane	Universität Bern	General history (without pre-and early history)	Telecommunication, modernity and social change. A social and cultural history of the telephone in Mexico, 1930-1996
Bietti	Lucas M.	Université de Neuchâtel	Psychology	The Embodied Communication of Memories: Interaction, Evolution and Learning in Social Contexts
Bubenhofer	Noah	Universität Zürich	German and English languages and literature	Visual Linguistics: Fundamentals of Visualizing Language Data
Casacuberta Arola	Nuria	ETH Zürich	Oceanography	A new multitracer approach in Oceanography: combining U-236 with conventional anthropogenic radionuclides in the Arctic and Atlantic Oceans
Castets	Perrine	Universität Basel	Molecular Biology	Importance of the mTORC1 signaling in the maintenance and the plasticity of neuromuscular junctions: involvement of the pathway in the control of autophagy and the regulation of class II histone deacetylases
Cazzoli	Dario	Universität Bern	Neurology, Psychiatry	Interactions between attentional networks and their influence on perception: a project in healthy subjects and hemispatial neglect patients
Clair	Carole	Université de Lausanne	Clinical Endocrinology	Diabetes and Smoking Cessation: a Gender Oriented Intervention Trial

Name	First Name	Host Institution	Discipline	Project Title
Corpataux	Jean-François	Université de Fribourg	Visual arts and Art history	Knots & Folds. Contribution to the Study of « Parerga » in Renaissance Art
Crivellin	Andreas	PSI Villigen	Particle Physics	Flavour Physics beyond the Standard Model
Dahl	Christoph	Université de Neuchâtel	Anthropology, Primatology	A novel approach on animal cognition
De Boever	Eva	Université de Fribourg	Geology	QuantiCarb@Spring – processes and quantification of CaCO <sub>3</sub> fabric-specific layering at hot springs and its environmental implications
Depeursinge	Adrien	EPF Lausanne	Information Sciences	Highly Adaptive Computational Models of Biomedical Tissue in Radiological Images: Digital Tissue Atlases and Correlation with Genomics (MAGE)
Dimartino	Alessia	Université de Genève	Archaeology	Image and word: Visual communication and verbal portraiture in Ancient Greek funerary monuments
Egli	Adrian	Universität Basel	Immunology, Immunopathology	Blockade of interferon- $\lambda$ of signalling – a novel class of adjuvants to improve vaccine-induced antibody responses
Faenza	Yuri	EPF Lausanne	Mathematics	Tight formulations of 0-1 problems
Faivre-Carron	Delphine	Universität Zürich	Philosophy	Santa Maria Novella and the Commune of Florence (1293-1313/4). A Philosophical Investigation of the Political Writings by Florentine Dominicans Contemporary to Dante
Fort	Alexandre Matthieu	Université de Genève	Genetics	Genomic regulation and function of nuclear non-coding RNAs transcribed from human enhancer regions
Greiner	Nicolas	Universität Zürich	Theoretical Physics	Automated calculations of electroweak corrections at the LHC
Gründemann	Jan	FMI Basel	Neurophysiology and Brain Research	Mapping the neuronal code of fear
Höfler	Stefan	Universität Zürich	German and English languages and literature	The textual structure of articles of law - Text-linguistic models in the service of legislation
Jacopin	Gwénolé	EPF Lausanne	Condensed Matter Physics	Ultrafast dynamics of wide band gap nanostructures for highly efficient LEDs

Name	First Name	Host Institution	Discipline	Project Title
Klopfstein	Seraina	Universität Bern	Zoology	Phylogeny, total-evidence dating, and the impact of parasitoid lifestyle on the diversification of pimpliforme parasitoid wasps (Hymenoptera, Ichneumonidae)
König	Michael	Universität Zürich	Economics	The Coevolution of Economic Networks and Behavior: Theory, Empirics and Policy Implications
Koss	Michael	ETH Zürich	Astronomy, Astrophysics and Spatial Sciences	Uncovering Hidden Black Hole Growth
Krattinger	Simon	Universität Zürich	Genetics	Functional characterization of broad-spectrum disease resistance in cereals
Kühn	Jonas	ETH Zürich	Astronomy, Astrophysics and Spatial Sciences	Science-Plane Holographic Coherent Wavefront Sensor & Digital Adaptive Coronagraphy for Extremely-high-contrast Direct Imaging of Exoplanets
Lupi	Matteo	ETH Zürich	Geology	Earthquake-induced fault reactivation at oblique subduction zones: from cause to effect
Lüpold	Stefan	Universität Zürich	Ecology	Genetic variation in quality and sexual selection on condition-dependent traits
Malaspinas	Anna Sapfo	Universität Bern	Genetics	Characterizing migrations with modern and ancient genomic data: the limits of the Polynesian expansion
Martin-Olmos	Cristina	CSEM Neuchâtel	Microelektronics, Optoelectronics	Smart engineered substrates for high throughput mechanobiology
Mehling	Matthias	Universität Basel	Clinical Immunology and Immunopathology	Microfluidics-based analysis of human T cell migration on a single cell level
Meier	Matthias	ETH Zürich	Geochemistry	Traces of two recent cosmic events in terrestrial sediments
Mertens	Joachim Carl Philipp	Universität Zürich	Clinical Cancer Research	Sensitization of Activated Stromal Fibroblasts for Apoptosis – Mechanisms and Therapeutic Potential in Cancer and Fibrosis
Meuwly	Nathalie	Université de Fribourg	Psychology	What contributes to healthy romantic relationships? An investigation of heterosexual, lesbian, and gay male couples
Mitri	Sara	Université de Lausanne	Experimental Microbiology	The evolution of social interactions in microbial communities
Monney	Claude	Universität Zürich	Condensed Matter Physics	Time- and angle-resolved photoemission spectroscopy on correlated materials

Name	First Name	Host Institution	Discipline	Project Title
Montero de Espinosa	Lucas	Université de Fribourg	Organic Chemistry	Simplified supramolecular polymers: from fundamental studies to a new generation of reversible two-component resins
Neukom	Raphael	Universität Bern	Climatology, Atmospherical Chemistry, Aeronomy	Detection of human and natural influences on the climate system: regional insights from the past Millennium
Noti	Mario	Universität Bern	Immunology, Immunopathology	The Role of the Microbiota in Food-induced Allergic Disorders
Parmigiani	Andrea	ETH Zürich	Geophysics	The fate of exsolved volatiles in shallow magma reservoirs: flow behavior and consequences on crystal mush reactivation and magma eruptability
Pascoli	Vincent	Université de Genève	Neurophysiology and Brain Research	Synaptic basis of eating disorders
Payne	Joshua	Universität Zürich	Genetics	The evolution and robustness of transcription factor binding sites
Rothen	Nicolas	Universität Bern	Psychology	Natural Foundations of Enhanced Memory
Roulin	Anne	Universität Zürich	Ecology	Population genomics and local adaptation: genome wide analysis of transposable elements and natural population evolutionary trajectories
Samson	Andrea	Université de Genève	Psychology	Emotion Dysregulation in Psychopathology: Pathway to an Innovative Neuroconnectivity-Informed Intervention
Santamaria-Martínez	Albert	Université de Fribourg	Experimental Cancer Research	Cancer Stem Cells and metastasis: control of cell fate decisions through crosstalk with their lineage and the microenvironment
Schmid	Petra	Universität Bern	Psychology	Power effects on decision-making: The role of motivational and cognitive processes
Siegl	Petr	Universität Bern	Mathematics	Spectral analysis of non-self-adjoint operators with applications in mathematical physics
Sladojevich	Filippo	ETH Zürich	Organic Chemistry	Halogen bonding catalysis
Soleymani	Mohammad	Université de Genève	Information Sciences	Sensing Knowledge Emotions in Multimedia Discovery
Stojanovic	Nenad	Universität Luzern	Political Sciences	Racist voters and minority candidates: a conceptual puzzle and an empirical challenge with a focus on the Swiss case



Name	First Name	Host Institution	Discipline	Project Title
Van Heeswijk	Ruud	Université de Lausanne	Cardiovascular Research	Molecular Imaging of Perfluorocarbons for the Quantitative Characterization of Atherosclerosis Progression
Vergauwe	Evie	Université de Genève	Psychology	Behavioral and neural basis of high-speed retrieval in working memory
Vuille	Joëlle	Université de Neuchâtel	Legal Sciences	Forensic science as a contributor to miscarriages of justice in Western
Wandeler	Gilles Olivier	Universität Bern	Internal Medicine	HIV and viral hepatitis co-infection: informing management strategies through dedicated cohort studies in sub-Saharan Africa and Switzerland
Wohlfeld	Krzysztof	ETH Zürich / PSI Villigen	Condensed Matter Physics	Unravelling Exotic Properties of Collective Excitations in Correlated Systems
Woods	Kerry	Universität Bern	Cellular Biology, Cytology	Manipulation of the host by Theileria: Using BioID to discover parasite-dependent protein interaction networks

#### Ambizione Call 2013: 6<sup>th</sup> Call (60 grants)

Name	First Name	Host Institution	Discipline	Project Title
Akrap	Ana	Université de Genève	Condensed Matter Physics	Charge dynamics in topological insulators
Altwicker	Tilmann	Universität Basel	Legal Sciences	Transnational Public Security Law
Arrigo	Nils	Université de Lausanne	Botany	Functional genomics of adaptive introgression: experimental transfer of zinc resistance between <i>Arabidopsis halleri</i> and <i>A. lyrata</i> .
Aybek Rusca	Selma	Université de Genève	Neurology, Psychiatry	The stress hypothesis in Conversion Disorder
Bänziger	Peter-Paul	Universität Basel	General history (without pre-and early history)	The Industrious Subject. A History of Productive Selves, ca. 1890-1990
Benetti	Edmondo Maria	ETH Zürich	Material Sciences	Polyoxazoline-Based Coatings On Polymeric Scaffolds Directing Tissue Regeneration
Berger	Christoph	Universität Basel	Clinical Immunology and Immunopathology	Giant Cell Arteritis – towards a molecular understanding of pathogenesis
Berlincourt	Valéry	Universität Basel	Ancient History and Classical Studies	Rewriting and self-reference in Claudian's political poems

Name	First Name	Host Institution	Discipline	Project Title
Blas Temino	Diego	Université de Genève	Theoretical Physics	Understanding gravity at all scales: new tools for quantum gravity and cosmology
Brantut	Jean-Philippe	ETH Zürich	Other disciplines of Physics	Mesoscopic Physics with Ultracold Atoms
Briefer	Elodie	ETH Zürich	Zoology	Vocal expression of emotions in mammals: encoding, decoding and human-animal perception
Burmann	Björn	Universität Basel	Biophysics	Structure and Dynamics of the Escherichia Coli transcription termination factor Rhod
Comas-Vives	Aleix	ETH Zürich	Inorganic Chemistry	Support Effects in Catalysis: The Case of Dry Reforming
das Neves Duarte	João Miguel	EPF Lausanne	Neurophysiology and Brain Research	Metabolic features of neurodegeneration and neuroprotection upon insulin resistance
Demirors	Ahmet	ETH Zürich	Physical Chemistry	Bioinspired Composites by External Fields
Domínguez Borràs	Judith	Université de Genève	Neurophysiology and Brain Research	Neural pathways of emotional attention investigated with intracranial and single-neuron recordings in humans
Döring	Leif	ETH Zürich	Mathematics	Lévy Processes Coming in from Infinity and Jump-Diffusions with Singular Coefficients
Eggel	Alexander	Universität Bern	Immunology, Immunopathology	Novel strategies to prevent allergic hypersensitivity reactions using disruptive IgE inhibitors
Emery	Vincent	EPF Lausanne	Mathematics	Volume of hyperbolic manifolds and K-theory of number fields
Engel	Philipp	Université de Lausanne	Experimental Microbiology	Functional characterization of microbial symbioses in the honey bee gut microbiota
Fabbri	Emiliana	PSI Villigen	Physical Chemistry	Designing novel electrocatalysts for fuel cells and electrolyzers by tailoring perovskite surface properties
Fagiano	Lorenzo Mario	ETH Zürich	Other disciplines of Engineering Sciences	Experimental Assessment of Airborne Wind Energy
Felli	Romain	Université de Genève	Political Sciences	The political life of an idea: resilience to environmental change in international organisations
Fernandez Gonzalez	Santiago	Università della Svizzera italiana	Medical Microbiology	Intravital imaging of polymicrobial respiratory diseases (IMPORED)

Name	First Name	Host Institution	Discipline	Project Title
Fink	Julian	Universität Bern	Philosophy	Epistemic Reasons and Rational Coherence: A New Answer to 'Why be rational?'
Foletti	Ivan	Université de Lausanne	Visual arts and Art history	The Dead and Their Bodies as Places of "Ethno-Gatherings" and of contact: the Case of Ambrose, Gervasius and Protasius in the Early Middle Ages (397-950). Romans, Byzantines, Lombards and Carolingians in the Face of the Milanese Cult of Relics.
Fragos	Tassos	Université de Genève	Astronomy, Astrophysics and Spatial Sciences	The Origin of Stellar-Mass Black Hole Spin
Galland	Christophe	EPF Lausanne	Condensed Matter Physics	Heralded Single Phonon Generation and Detection in an Optomechanical Resonator
Geiser	Eveline	Université de Lausanne	Psychology	Mechanisms of global timing perception and their influence on perception and cognition
Giger	Nathalie	Universität Zürich	Political Sciences	The politics of family policy expansion. Electoral rewards, party politics and citizens' attitudes in comparative perspective
Grams	Christian Michael Warnfrid	ETH Zürich	Meteorology	The mutual interaction of individual weather systems and weather regimes
Hall	Alexander	ETH Zürich	Experimental Microbiology	Ecology of Antibiotic Resistance: Effect of Environment on Bacterial Adaptation to Antibiotics
Ionta	Silvio	Université de Lausanne	Psychology	Validation of a Model of Sensorimotor Integration with Clinical Benefits
Ishibashi	Wakiko	ETH Zürich	Astronomy, Astrophysics and Spatial Sciences	The Role of Accreting Black Holes in Galaxy Evolution
Juricek	Michal	Universität Basel	Organic Chemistry	Quantum Information Processing Devices: Emergence of High-Spin Nanographenes
Karlo	Christoph	Universität Zürich	Clinical Cancer Research	Radiogenomics of Renal Cell Carcinoma
Laskay	Ünige	EPF Lausanne	Biochemistry	Cross-Generational Effects of Obesity and Anorexia. A Mass Spectrometry-Based Systems Biology Approach.
Longchamp	Jean-Nicolas	Universität Zürich	Condensed Matter Physics	Coherent Diffraction Imaging of Graphene-Supported Single Biomolecules at Atomic Resolution

Name	First Name	Host Institution	Discipline	Project Title
Marchand	Fabienne	Université de Fribourg	Ancient History and Classical Studies	Old and New Powers: Dynamics of Domination in a Changing World. Boiotian International Relations from Philip II to the End of the Hellenistic Period
Monin	Alexander	EPF Lausanne	Theoretical Physics	Spontaneous Conformal Symmetry Breaking and Hierarchy Problem
Nigg	Simon	Universität Basel	Theoretical Physics	Quantum information processing with superconducting qubits and molecular magnets
Oloff	Florence	Universität Zürich	German and English languages and literature	The epistemics of grammar: A comparative study of co-constructions in Czech, French, and German
Pichon	Swann	Université de Genève	Psychology	Impact of prosocial and violent videogames on pain perception: Investigating short- and long-term emotional changes
Rüegg	Andreas	ETH Zürich	Theoretical Physics	Topological states in quantum condensed matter and advanced materials
Saab	Bechara	Universität Zürich	Neurophysiology and Brain Research	Exploring in the Dark: A Possible Light for Major Depression
Schärli	Yolanda	Universität Zürich	Molecular Biology	Robustness and evolutionary parameter drift of stripe-forming gene regulatory networks
Schöb	Christian	Universität Zürich	Ecology	Niche space construction and facilitation, and their evolutionary consequences
Schwab	Sandra	Universität Zürich	Romance languages and literature	Prosody acquisition in a second language: the study of stress perception with behavioral and electrophysiological methods
Sforazzini	Giuseppe	EPF Lausanne	Organic Chemistry	Polymer Torsional Switches for Organic Photovoltaics
Simoni	Valerio	IHEID Genève	Ethnology	The Transformation of Intimate and Economic Lives in Cuban Tourism and Migration
Spycher	Ben	Universität Bern	Cancer	The spatial epidemiology of childhood cancer in Switzerland
Steinberg	Florian	Universität Basel	Cellular Biology, Cytology	Sorting nexin mediated endocytic recycling in signalling and cancer
Stringhini	Silvia	Université de Lausanne	Cardiovascular Research	Socioeconomic status and cardio-metabolic disease: an epidemiological perspective on the biology of social adversity
Vadas	Oscar	Université de Genève	Biochemistry	How kinases define specificity in lipid signalling?

Name	First Name	Host Institution	Discipline	Project Title
Valla	Pierre	Université de Lausanne	Geology	Tropical volcanic islands erosion and landscape evolution - Earth surface geochronology, morphometry and numerical modeling
Vidotto	Aline	Université de Genève	Astronomy, Astrophysics and Spatial Sciences	Evolution of the stellar wind impact on extrasolar planets
Wansleben	Leon	Universität Luzern	Sociology	Processes of scientization in the Bank of England and the Swiss National Bank since 1960
Wüst	Samuel	Universität Zürich	Botany	Genetics to Ecology
Zaugg	Roberto	Université de Lausanne	General history (without pre-and early history)	Connected histories, narrated stories. The journal of a barber-surgeon between journeyman migration and slave trade
Zufferey	Sandrine	Université de Fribourg	German and English languages and literature	MULDIS - Discourse Connectives: From Multiple Languages to Multilingual Minds

#### Ambizione Call 2012: 5<sup>th</sup> Call (56 grants)

Name	First Name	Host Institution	Discipline	Project Title
Bachmann	Ruxandra	Universität Zürich	Genetics	Understanding genetic modifiers in ciliopathies using the zebrafish model
Balbi	Gabriele	Université de Genève	Communication Sciences	Inventing European Wireless. A cultural history of wireless from point-to-point telegraphy to one-to-many broadcasting, 1903-1927
Bevan Zlatar	Antoinina	Universität Zürich	German and English languages and literature	Making and Breaking Images in John Milton
Bobeth	Gundela	Universität Zürich	Musicology	Das deutschsprachige Lied in Wien um 1800. Ein Beitrag zur Liedkultur zwischen Aufklärung und Romantik
Brilli	Elisa	Universität Zürich	Romance languages and literature	L'homme, la cité terrestre et la théologie de l'histoire. Saint Augustin chez Dante
Burnier	Yannis	EPF Lausanne	Theoretical Physics	Plasma de particules élémentaires à haute température dans des collisions d'ions lourds
Burri	Andrea	Universität Zürich	Psychology	Somatoform pain disorder: The role of interpersonal and epigenetic factors in the transition from acute to chronic pain disorder

Name	First Name	Host Institution	Discipline	Project Title
Cadarso Busto	Víctor Javier	PSI Villigen	Microelektronics, Optoelectronics	Optical nanowires based biosensing platform
Caviglia	Andrea	Université de Genève	Condensed Matter Physics	Light control of artificial quantum materials
Chang	Johan Juul	EPF Lausanne	Condensed Matter Physics	Strongly correlated metals beyond the Fermi liquid concept
de Seigneux Matthey	Sophie	Université de Genève	Pathophysiology	Kidney Tubular Cells are Major Actors in Chronic Kidney Disease (CKD) Progression: Potential Therapeutic Targets and Prognosis Markers
Deguen	Renaud	ETH Zürich	Geophysics	Setting Earth's initial conditions - Compositional and thermal partitioning during metal silicate differentiation in a magma ocean
Dreiser	Jan	EPF Lausanne	Condensed Matter Physics	Magnetic and Optical Investigations of Surface-Deposited Single-Ion Magnets
Fachard	Sylvian	Université de Genève	Archaeology	Les frontières de l'Attique. Etude du paysage frontalier d'une cité grecque : archéologie et géographie historique.
Faresse	Nourdine	Universität Zürich	Physiology: other topics	Role of the Mineralocorticoid receptor signaling in the control of adipocytes differentiation and function
Forney	Jérémie	Berner Fachhochschule	Ethnology	Filières alternatives dans la production laitière: reconfiguration des réseaux et autonomisation des producteurs
Frey	Olivier	ETH Zürich	Microelectronics, Optoelectronics	The Body on a Chip - Human 3-D tissue analogues in microfluidic systems
Frölicher	Thomas	ETH Zürich	Oceanography	Anthropogenic carbon and heat uptake by the Southern Ocean
Grüter	Christoph	Université de Lausanne	Ecology	The adaptive significance of communication and learning for colony success in honey bees
Ibanez Gabilondo	Alfredo	ETH Zürich	Cellular Biology, Cytology	Single-cell ( <i>S.cerevisiae</i> ) level examination of the telomere maintenance process
Isa	Lucio	ETH Zürich	Material Sciences	Self-assembly of anisotropic nanoparticles at liquid interfaces: unraveling the basics and designing new functional materials
Jaeger	Michael	Universität Bern	Biomedical Engineering	Novel Computerised Ultrasound Tomography in Echo Mode - CUTE: Multimodal Ultrasound Imaging for Accurate Diagnosis and Treatment Control

Name	First Name	Host Institution	Discipline	Project Title
Joseph	Edith Michelle Maryse	Université de Neuchâtel	Inorganic Chemistry	MAIA
Jutzi	Martin	Universität Bern	Astronomy, Astrophysics and Spatial Sciences	Impact Processes in the Solar System
Kaczmarek	Mary-Alix	Université de Lausanne	Geology	High strain zone: From the effect of mineral plasticity to plate tectonic
Katan	Mira	Universität Zürich	Neurology, Psychiatry	Biomarker signature of stroke aetiology study: The BIOSIGNAL-Study
Khanna	Nina	Universität Basel	Immunology, Immunopathology	Relevance of different CD4+ T-cell subsets for antifungal defense. What is aberrant in immunocompromised patients?
King	Carolyn	Universität Basel	Immunology, Immunopathology	The role of TCR affinity in CD4+ T cell asymmetric division and differentiation
Kouyos	Roger	Universität Zürich	Infectious Diseases	Combining molecular epidemiology approaches and mathematical models for the spread of HIV and its coinfections
Kroll	Alexandra	EAWAG Dübendorf	Other Disciplines of Environmental Sciences	Fate and effects of engineered nanoparticles in stream periphyton
Kurant	Maciej	ETH Zürich	Information Sciences	Graph Sampling: Theory and Applications
Lam	Vincent	Université de Lausanne	Philosophy	Metaphysics of quantum field theoretic structures in dynamical spacetime
Lapointe	Clayton	Université de Fribourg	Condensed Matter Physics	Cholesteric blue phase liquid crystals confined to nano-scale topographic surfaces
Latu	Ioana	Université de Neuchâtel	Psychology	Implicit gender stereotypes in the workplace context: communication, behavioral confirmation, and detection
Lenggenhager	Bigna	Universität Zürich	Neurophysiology and Brain Research	Binding body and self by vestibular and multisensory stimulation
Leonard	Katherine Colby	EPF Lausanne	Hydrology, Limnology, Glaciology	Antarctic precipitation, snow accumulation processes, and ice-ocean interactions
Martinez-Garcia	Alfredo	ETH Zürich	Geology	On the Role of the Southern Ocean in the regulation of atmospheric carbon dioxide concentrations
Meier	Laurenz	Université de Fribourg	Psychology	Examining the Effect of Well-being on Work Stressors

Name	First Name	Host Institution	Discipline	Project Title
Mercier	Hugo	Université de Neuchâtel	Psychology	Reasoning in its social, cultural and argumentative context
Mühleisen	Beda	Universität Zürich	Experimental Microbiology	Parathyroid hormone-related peptide (PTHrP) in skin innate immune defense - regulation and role in wound healing
Necsulea	Anamaria	EPF Lausanne	Genetics	The roles of long non-coding RNAs in mammalian development and aging
Plisecka	Anna	Universität Zürich	Legal Sciences	Normative Kommunikation in der mehrsprachigen Gesellschaft: Die Veröffentlichung von kaiserlichen Konstitutionen in den östlichen Provinzen des römischen Reiches
Pribytkova	Elena	Universität Basel	Legal Sciences	A Social Minimum in the Language of Human Rights
Roppolo	Daniele	Universität Bern	Cellular Biology, Cytology	Establishment of membrane fences and local cell wall deposition in plants
Sawarkar	Ritwick	ETH Zürich	Molecular Biology	Understanding the molecular role of Hsp90 in genotype-phenotype relation by using Drosophila melanogaster as a model
Scheiermann	Christoph	Université de Genève	Immunology, Immunopathology	Kontrolle zirkadianer Lymphozytenmigration in lymphoiden und nicht-lymphoiden Geweben durch das sympathische Nervensystem
Schmidt	Sebastian	ETH Zürich	Theoretical Physics	Strongly correlated photons
Silvestrini	Nicolas	Université de Genève	Psychology	Motivational Perspectives on the Reciprocal Influence of Cognitive Control and Pain
Skora	Susanne	ETH Zürich	Mineralogy	Adakite Petrogenesis: An experimental study on mantle metasomatism
Staub	Daniel	Universität Basel	Cardiovascular Research	Clinical Use of Contrast-Enhanced Ultrasound (CEUS) for the Assessment of Vessel Wall Vascularization (Vasa Vasorum) and Inflammation in Carotid Atherosclerosis and Venous Thrombosis
Stauder	Andreas	Universität Basel	Ancient History and Classical Studies	The Old Egyptian Verb. Functions in Text
Storey	James William	Universität Bern	Particle Physics	First Measurement of the Free-Fall of Antimatter with an Antihydrogen Beam
Tan	Kelly	EPF Lausanne	Neurophysiology and Brain Research	Dopamine modulation of inhibitory microcircuits in the barrel cortex
Wegmann	Daniel	EPF Lausanne	Molecular Biology	Coestimating selection and demography



Name	First Name	Host Institution	Discipline	Project Title
Yalcin	Binnaz	Université de Lausanne	Genetics	Genetic basis of intellectual disability and other cognitive disorders
Zikas	Vasileios	ETH Zürich	Information Sciences	Towards Practical Secure Computation

### Ambizione Call 2011: 4<sup>th</sup> Call (49 grants)

Name	First Name	Host Institution	Discipline	Project Title
Alessi	Daniel	EPF Lausanne	Geochemistry	In situ Cr(VI) remediation in biostimulated natural sediments: mechanisms of formation, characterization, and long-term stability of reduced Cr(III) products
Alimonti	Andrea	Università della Svizzera italiana	Experimental Cancer Research	Manipulation of senescence pathways for cancer therapy: from experimental models to clinic
Althaus	Christian	Universität Bern	Infectious Diseases	Acute and chronic dynamics of HIV and HCV infections, within-host evolution and epidemiological outcomes
Andretta	Elisa	Université de Genève	General history (without pre-and early history)	Itinéraires des savoirs et cultures médicales de l'Europe méditerranéenne (1520-1650)
Aran	Oya	IDIAP Martigny	Information Sciences	Multimodal Computational Modeling of Nonverbal Social Behavior in Face to Face Interaction
Astori	Simone	Université de Lausanne	Neurophysiology and Brain Research	Cellular mechanisms underlying sleep regulation: a role for synaptic plasticity within sleep-wave generating circuits?
Banerji	Natalie	EPF Lausanne	Physical Chemistry	Conjugated Donor-Acceptor Copolymers: Understanding Their Optoelectronic Functioning in Organic Solar Cells
Barducci	Alessandro	EPF Lausanne	Physical Chemistry	Atomistic Basis for the Multiple Functions of the Hsp70 Chaperone Machinery
Blanchet	Steve	EPF Lausanne	Theoretical Physics	Probing the origin of matter at the Large Hadron Collider
Bohlius	Julia	Universität Bern	Cancer	AIDS-defining and non AIDS-defining cancers in patients starting ART in Southern Africa: cohort and linkage studies
Castelletti	Cristiano	Université de Fribourg	Ancient history and Classical studies	Flavium Caelum. Tradition aratéenne et idéologie impériale dans la poésie épique de l'époque flavienne.

Name	First Name	Host Institution	Discipline	Project Title
Ciobanu Radomirovic	Laura Ioana	Université de Neuchâtel	Mathematics	Algorithmic, asymptotic and combinatorial aspects of equations in groups
Corboz	Philippe	ETH Zürich	Condensed Matter Physics	Simulation of strongly correlated quantum many-body systems with tensor network and Monte Carlo algorithms
Courty	Pierre-Emmanuel	Universität Basel	Ecology	Taxonomic and functional diversity of mycorrhizal fungi associated with poplar: an integrative approach
Donghi	Daniela	Universität Zürich	Inorganic Chemistry	Structural NMR investigation of the interaction between metal-based anticancer drugs and RNA
Dotsenko	Vladimir	Université de Genève	Mathematics	Algebra and combinatorics of shuffle operads
Dubey	Sylvain	Université de Lausanne	Ecology	The evolution of colour polymorphism in ectothermic vertebrates: A study on asp vipers
Erb	Tobias	ETH Zürich	Experimental Microbiology	Reductive Carboxylases in Natural and Synthetic Microbial Pathways
Flückiger	Christoph	Universität Zürich	Psychology	Microtuning a bonafide treatment for GAD patients – A randomized controlled trial
Gerber	Andri	ETH Zürich	Architecture and Social urban science	Städtebauteorie: Theorie einer "interdisziplinären Disziplin"
Gfeller	Aurélie Elisa	IHEID Genève	General history (without pre-and early history)	Conceptualizing World Heritage: A Contested Process (1970s-2000s)
Groh	Jose	Université de Genève	Astronomy, Astrophysics and Spatial Sciences	Unified models of massive stars through cosmic time
Guan	Xueli	Universität Basel	Biochemistry	Lipidomics of host-pathogen interactions: human macrophage as a cellular system to study functional implications of lipid metabolism during infection
Hahn	Oliver	ETH Zürich	Astronomy, Astrophysics and Spatial Sciences	Galaxies and Large-scale Structure in the Universe: Their Formation and Implications for Cosmological Observables
Ifejika Speranza	Chinwe	Universität Bern	Social geography and ecology	Resilient agriculture-based livelihoods and resilient agricultural landscapes? Adaptation to climate change in African agriculture
Jessen	Henning	Universität Zürich	Organic Chemistry	Dissection of Inositol-Phosphate Dependent Signaling Pathways with Novel Chemical Tools

Name	First Name	Host Institution	Discipline	Project Title
Klohs	Jan	ETH Zürich	Neurophysiology and Brain Research	Molecular imaging of neutrophil protease-mediated blood-brain barrier impairment and thrombosis after cerebral ischemia
Krol	Jacek	FMI Basel	Molecular Biology	Regulatory function of microRNAs in mouse retinal neurons
Lewinsky	Tamar	Universität Basel	General history (without pre-and early history)	Weltsprache Jiddisch. Jüdische Transmigranten aus Osteuropa im 19. und 20. Jahrhundert und die Entstehung transnationaler jiddischer Räume
Mermod	Philippe	Université de Genève	Particle Physics	Searches for Massive Penetrating and Highly-Ionizing Particles with the ATLAS Detector at the Large Hadron Collider
Morin	Xavier	Université de Lausanne	Ecology	Impact des changements globaux sur la diversité en espèces ligneuses et sur la productivité forestière dans les forêts tempérées et alpines
Nievergelt	Marco	Université de Lausanne	German and English languages and literature	Allegory, Hermeneutics and Epistemology: Guillaume Deguileville's Pilgrimage trilogy in England 1350-1450.
Pachlopnik Schmid	Jana	Universität Zürich	Paediatrics	Immune tolerance in flaky skin mutant mice
Pfister	Jean-Pascal	Universität Bern	Biophysics	Normative theory of synaptic plasticity across multiple time scales
Rambeau	Claire	Universität Bern	Other disciplines of Environmental Sciences	Arid Southern Levant: a joint environmental and human history for the Holocene, derived from new archives of climate change (Dead Sea edge, Jordan)
Ribi Forclaz	Amalia	IHEID Genève	General history (without pre-and early history)	Peasants, Poverty and Politics. The Emergence of Global Labour Standards in Agriculture, 1930-1960
Rimmele	Ulrike	Université de Genève	Psychology	Effects of emotion and stress on different memory stages
Riva	Francesco	EPF Lausanne	Particle Physics	MiPhaGe: Mining the Pharmacogenomics Literature
Saunders	Krystyna	Universität Bern	Hydrology, Limnology, Glaciology	High resolution reconstructions of climate variability in the sub-Antarctic during the last two millennia
Schmidt	Thomas	Universität Basel	Condensed Matter Physics	Quantum effects in nanomechanical and optomechanical systems
Schuepbach	Reto	Universität Zürich	Physiology : other topics	Cytoprotection through non Anticoagulant Engineered Chimeric Activated Protein C
Slack	Emma	ETH Zürich	Experimental Microbiology	Immunological control of within-host S. Typhimurium population dynamics

Name	First Name	Host Institution	Discipline	Project Title
Stadler	Tanja	ETH Zürich	Infectious Diseases	Estimating epidemiological and evolutionary parameters from viral sequence data using phylogenetic methods
Stauder-Porchet	Julie	Universität Basel	Ancient history and Classical studies	Les autobiographies en Égypte ancienne de 2500 à 1500 av. J.-C. : histoire d'un genre
Tegethoff	Marion	Universität Basel	Psychology	Pediatric mental-somatic comorbidity: epidemiological and psychobiological perspectives
Tuia	Devis	EPF Lausanne	Other disciplines of Environmental Sciences	Understanding the underlying structure of remote sensing images: improving adaptation in classification models with artificial intelligence techniques
Voitchovsky	Kislon	EPF Lausanne	Other disciplines of Physics	Solid-Liquid Interfaces at the Nanoscale
Zajacz	Zoltán	ETH Zürich	Geochemistry	Equilibrium between silicate melts and H-O-C-S-Cl magmatic volatiles: a key to understand volcanic eruptions and ore deposit genesis
Zenker	Olaf	Universität Bern	Ethnology	Land restitution and the moral modernity of the new South African state

### Ambizione Call 2010: 3<sup>rd</sup> Call (53 grants)

Name	First Name	Host Institution	Discipline	Project Title
Bakkum	Douglas	ETH Zürich	Neurophysiology and Brain Research	Network dynamics underlying learning in embodied cortical brain cells grown over an 11,011-electrode CMOS circuit
Bellone	Camilla	Université de Genève	Neurophysiology and Brain Research	Nicotine exposure of the unborn: effects on postnatal maturation of excitatory synaptic transmission in the cortico-limbic system
Berger	Thomas	Universität Bern	Psychology	Internet-based psychotherapy: The evaluation of internet-based interventions for social phobia, panic disorder and/or agoraphobia and generalized anxiety disorder
Breschi	Evelina	Université de Fribourg	Other disciplines of Physics	A push-pull magnetometer with an internal microwave frequency reference
Bucher	Etienne	Universität Bern	Genetics	Investigating the tissue specific epigenetic code in plants

Name	First Name	Host Institution	Discipline	Project Title
Caiata Zufferey	Maria	Université de Genève	Sociology	Entre santé et maladie. Analyse des trajectoires et des modes de vie en présence du risque génétique de cancer
Crivelli	Paolo	ETH Zürich	Other disciplines of Physics	Testing antigravity with positronium
Cvengros	Jan	ETH Zürich	Organic Chemistry	Tröger's base inspired organocatalysts for asymmetric dual catalysis
De Jong	Rixt	Universität Bern	Hydrology, Limnology, Glaciology	Cold-season climate variability in the Chilean Andes during the past millennium
Deac	Alina	EPF Lausanne	Condensed Matter Physics	Spin-dependent transport and spin-transfer torques in specially designed superlattice nanostructures with tailored anisotropies
Duba	William	Université de Fribourg	Philosophy	Francis of Marchia's Philosophical Psychology
Engelstädter	Jan	ETH Zürich	Ecology	Why do bacteria have sex? Theoretical and experimental investigations into the evolution of bacterial transformation
Fedor	Juraj	Université de Fribourg	Physical Chemistry	Electron-driven chemistry at liquid interfaces
Fischer	Ozana	Universität Basel	Physical Chemistry	Switchable transport across genetically engineered channel proteins
Flindt	Christian	Université de Genève	Condensed Matter Physics	Nano-scale quantum devices
Frick	Andrea	Universität Bern	Psychology	Development of Spatial Transformation Abilities
Fürstenberg	Alexandre	Université de Genève	Biophysics	Membrane dynamics and conformational diversity of G protein-coupled receptors
Gerber	Jean-David	Université de Lausanne	Social geography and ecology	The land use strategies of local authorities in the aftermath of new public management. Impacts on spatial development and sustainability
Geuking	Markus	Universität Bern	Immunology, Immunopathology	The role of antigen-specific and Toll-like receptor-dependent de novo generation of inducible regulatory T cells in the induction of intestinal immune homeostasis
Glaser	Dominique	Université de Fribourg	Genetics	Genetic Analysis of Temperature and Pain Sensation in <i>Caenorhabditis elegans</i>
Granziera	Cristina	Université de Lausanne	Neurology, Psychiatry	Advanced Techniques to Investigate the Physiopathology of Multiple Sclerosis Using High and Ultra-High Field MRI

Name	First Name	Host Institution	Discipline	Project Title
Hirschi	Caspar	ETH Zürich	General history (without pre-and early history)	Kritiker und Experten. Die Konstruktion moderner Gelehrtenrollen im Zeitalter der Aufklärung
Irla	Magali	Université de Genève	Immunology, Immunopathology	Role of medullary thymic epithelial cells in the generation of natural regulatory T cells
Job Sutnar	Veronika	Universität Zürich	Psychology	Implicit Theories about Willpower: Mechanisms, Replication, and Application
Kuznets	Roman	Universität Bern	Information Sciences	Refining Reasoning via Justification Extraction: A Proof-Theoretic Approach
Letzkus	Johannes Jakob	FMI Basel	Neurophysiology and Brain Research	Encoding of Associative Fear Memory in Identified Neuronal Circuits of Auditory Cortex
Martin	Gunther	Universität Bern	Other languages and literature	Kommentar zu Euripides, Ion
Mayor	Julien	Université de Genève	Psychology	A neuro-computational investigation of lexical development in Williams Syndrome children
Mercer	Jason	ETH Zürich	Cellular Biology, Cytology	Cell biology of poxvirus infection
Parisod	Christian	Université de Neuchâtel	Botany	Impact of transposable elements on genome dynamics and reproductive isolation
Paschoud	Adrien	Université de Lausanne	Romance languages and literature	Edition integrale des ecrits autobiographiques de Jean-Joseph Surin (1600-1665)
Pic	Muriel	Université de Neuchâtel	Romance languages and literature	Edith Boissonnas dans le cercle Paulhan : l'engagement lyrique
Plomp	Gijs	Université de Genève	Neurophysiology and Brain Research	Functional brain networks: dynamics of directed information transfer in visual processes
Pollet	Lode	ETH Zürich	Condensed Matter Physics	Developing tools for bridging the gap between cold gases and materials
Ponzetto	Valentina	Université de Genève	Romance languages and literature	Le Proverbe dramatique
Rasmann	Sergio	Université de Lausanne	Ecology	A phylogenetic study on altitudinal gradients of plant defenses against herbivores: testing classic hypotheses with contemporary methods
Riva	Oriana	ETH Zürich	Information Sciences	Nimbus: Personal cloud computing

Name	First Name	Host Institution	Discipline	Project Title
Roggia	Carlo Enrico	Université de Genève	Romance languages and literature	Le opere linguistiche di Melchiorre Cesarotti: edizione e commento
Scharnowski	Frank	Université de Genève	Neurophysiology and Brain Research	Modulating Human Brain Function and Dysfunction with Neurofeedback
Schimanski	Bernd	Universität Bern	Cellular Biology, Cytology	Nuclear mRNA export in Trypanosoma brucei - parasite specific factors or business as usual?
Schultz	Thomas	IHEID Genève	Legal sciences	The Ethics of Transnational Business Law
Scrima	Andrea	FMI Basel	Biochemistry	Molecular mechanism underlying Cockayne Syndrome
Slowik	Jay	PSI Villigen	Climatology. Atmospherical Chemistry, Aeronomoy	Production and Processing of Atmospheric Aerosols from Biogenic and Biomass Burning Sources
Spycher	Anna Cornelia	Universität Zürich	Cellular Biology, Cytology	"Kiss and Flush" - a minimized endocytic system in the protozoan Giardia lamblia
Szövényi	Péter	Universität Zürich	Genetics	Gene expression and the evolution of plant alternation of generations
Ullrich	Nina	Universität Bern	Cardiovascular Research	Functional characterization and comparison of stem cell-derived cardiomyocytes for cardiac regenerative medicine
Voets	Ilja	Université de Fribourg	Physical Chemistry	Antifreeze proteins in solution and at interfaces
Weder	Christine	ETH Zürich	German and English languages and literature	Intime Beziehungen: Literatur, Ästhetik und Theorien der Sexualität um 1968
Wilhartitz	Inés	EAWAG Dübendorf	Hydrology, Limnology, Glaciology	Microbial communities inherent to karstic aquifers - ecological driving forces in the depth
Worthington	Martin	Université de Genève	Other languages and literature	Individual style in Babylonian narrative poetry of the 1st millennium BC
Yanagisawa	Hirofumi	ETH Zürich	Condensed Matter Physics	Spatio-temporal Control of Coherent Electron Emission
Yoo	Jaiyul	Universität Zürich	Astronomy, Astrophysics and Spatial Sciences	Cosmological Probes of Dark Sector of the Universe
Zech	Roland	ETH Zürich	Geology	Tracking glacial cycles across Eurasia using lipid biomarkers in loess-paleosols-sequences

**Ambizione Call 2009: 2<sup>nd</sup> Call (53 grants)**

Name	First Name	Host Institution	Discipline	Project Title
Alvarez	Nadir	Université de Lausanne	Zoology	Coalescence and adaptation processes in plant-insect interactions: Bridging the gap between genomics and phylogeography
Amati	Francesca	Univeristé de Lausanne / Universität Bern	Endocrinology	Insulin resistance of aging, ectopic lipid depositions and oxidative capacity: effects of exercise and obesity
Appenzeller-Herzog	Christian	Universität Basel	Cellular Biology, Cytology	Role and regulation of luminal disulfide switches in calcium signaling from the endoplasmic reticulum
Baglioni	Daniele	Universität Zürich	Romance languages and literature	Gli esiti del nesso GN nelle lingue romanze (con speciale riguardo all'Italia)
Berner	Daniel	Universität Basel	Molecular biology	The molecular basis of parallel evolution in stickleback foraging morphology
Bichsel	Christine	Université de Fribourg	Social geography and ecology	Territory in Socialist Central Asia. A Political Geography of Soviet Modernity, 1953–1982
Braband	Henrik	Universität Zürich	Inorganic Chemistry	Technetium Chemistry at High Oxidation States: New Perspectives for Nanomaterials and Polyoxometalates in Medicine and Environmental Science
Brunner	Philip	Université de Neuchâtel	Hydrology, Limnology, Glaciology	Controls and impact of geologic heterogeneity and temporal dynamics in surface water groundwater interaction
Bucher-Karlsson	Michelle	EPF Lausanne	Mathematics	Milnor-Wood inequalities and characteristic classes
Cacchione	Trix	Universität Zürich	Psychology	Core knowledge revisited: Effects of fission, fusion and shape transformation on infants' ability to represent inanimate and animate objects
Cakareski	Jakov	EPF Lausanne	Information Sciences	YouStream: Context-Aware Distributed Media Delivery
Carbone	Fabrizio	EPF Lausanne	Condensed Matter Physics	Real-time structural investigation of superconductors
Champagnac	Jean-Daniel	ETH Zürich	Geology	Glacial Carving versus Tectonic Forcing. Documenting their Relative Contribution to Relief Formation
Colombaroli	Daniele	Universität Bern	Ecology	Fire, climate change and human impact in tropical ecosystems: paleoecological insights from the East African region



Name	First Name	Host Institution	Discipline	Project Title
Contratto	Franca	Universität Zürich	Legal sciences	Rechtsschutz im Wirtschaftsrecht - Phänomenologie und Ursachen aktueller Vollzugsdefizite sowie Reformansätze für die Zukunft
Everts	Regula	Universität Bern	Psychology	Behavioural and Neural Effect of Memory Training in Children born Preterm
Felsch	Philipp	ETH Zürich	General history (without pre-and early history)	Humboldts Söhne. Das paradigmatische Leben der Brüder Schlagintweit (1820-1890)
Gasser	Gilles Albert	Universität Zürich	Inorganic Chemistry	Synthesis of PNA-Metal Bioconjugates by "Copper-Free" and "Photo" Click Chemistry: An Approach towards the in Vitro Attachment of Organometallics to Biomolecules
Hollenstein	Marcel	Universität Bern	Organic Chemistry	Improving the catalytic repertoire of DNA enzymes
Izzo	Anna	Université de Lausanne	Romance languages and literature	Il racconto di secondo grado nell'Orlando Furioso e nella tradizione cavalleresca
Jermann	Patrick	EPF Lausanne	Information Sciences	Multimodal Interaction Modelling and Regulation of Collaborative Problem-Solving
Jucker	Michael	Universität Luzern	General history (without pre-and early history)	Beute, Plünderung, Kulturgüterraub. Kriegsökonomie und symbolische Konfliktformen vom Mittelalter bis zur Renaissance
Junier	Pilar	Université de Neuchâtel	Experimental Microbiology	Metabolic capabilities of spore-forming microorganisms
Kaufmann	Tobias	ETH Zürich	Theoretical Physics	Extended Gaseous Halos as a Probe of Galaxy Formation
Kleim	Birgit	Universität Zürich	Psychology	Psychological and Biological Mechanisms of Stress Resilience
Kocsis	Laszlo	Université de Lausanne	Geochemistry	Paleogene environmental conditions in shallow tropical basins: case studies in the Tethyan phosphate deposits of North Africa
Kränkeli	Nicolle	Universität Zürich	Cardiovascular Research	Verbesserung der Rekrutierung Pro-angiogener Zirkulierender Zellen mittels Manipulation der Kinin-Rezeptor Signalübertragung
Kümmerli	Rolf	EAWAG Dübendorf	Ecology	Evolutionary explanations for the persistence of cooperative siderophore production in the bacterium <i>Pseudomonas aeruginosa</i>
Lieberman	Max	Universität Zürich	General history (without pre-and early history)	Conflicts between chivalry and law in high medieval "states", ca. 1000-1300
Maan	Martine	Universität Bern	Ecology	The colours of speciation: can visual adaptation and sexual selection drive species divergence in cichlid fish?

Name	First Name	Host Institution	Discipline	Project Title
Mader	Rachel	Zürcher Hochschule der Künste (ZFH)	Visual arts and Art history	Kunst als Unternehmen - kreative Praxis und Kulturpolitik seit 1980
Margolis	David	Universität Zürich	Neurophysiology and Brain Research	Neuronal circuit mechanisms of experience-dependent plasticity in adult mouse barrel cortex
Martinvalet	Denis	Univesité de Genève	Immunology, Immunopathology	Reactive Oxygen Species in Granzyme-mediated Cell Death: from Mechanism to Applications
McKinley	Richard	Universität Bern	Information Sciences	Computational Structure of Classical Duality
Modestin	Georg	Université de Fribourg	General history (without pre-and early history)	Heinrich von Diessenhofen als Historiograph seiner Zeit im Rahmen der süddeutschen Reichsgeschichtsschreibung
Pedrioli	Patrick Gino Angelo	ETH Zürich	Biochemistry	Functional significance and regulation of nucleotide thiolation in RNA molecules
Pignatari	Marco	Universität Basel	Astronomy, Astrophysics and Spatial Sciences	A new comprehensive analysis of nucleosynthesis in stars: a bridge between nuclear astrophysics, stellar models and observations
Purtschert	Patricia	ETH Zürich	Philosophy	Kolonialismus ohne Kolonien? Eine postkoloniale Diskursanalyse der Schweiz
Ramadoss	Ajay	ETH Zürich	Mathematics	Topological quantum mechanics and index theorems.
Reubi	Olivier	ETH Zürich	Geochemistry	Integrating U-series and petrology to constrain the time scales of arc magmatism
Romanyuk	Yaroslav	EMPA Dübendorf	Microelectronics, Optoelectronics	Semi-transparent solar cells based on oxide semiconductors
Rüegg	Joëlle	Universität Basel	Molecular Biology	Role of estrogen receptors in mediating specific DNA methylation changes and it implication for endocrine disruption
Ruiz	Geoffrey	Université de Lausanne	Geology	Cauca-Lift: Uplift in the Caucasus Mountains – Insights from very low Temperature thermochronometry and in cosmogenic dating
Schaepli	Bettina	EPF Lausanne	Hydrology, Limnology, Glaciology	Hydrologic Prediction in Alpine Environments
Seeger	Markus	Universität Zürich	Biochemistry	Targeting multidrug efflux proteins: Studying transport processes across the membrane using designed ankyrin repeat proteins and antibody fragments

Name	First Name	Host Institution	Discipline	Project Title
Silander	Olin	Universität Basel	Experimental Microbiology	The generation of novel function in microbial systems
Spinelli	Simona	Universität Zürich / ETH Zürich	Neurophysiology and Brain Research	Human and mouse-model study of serotonin transporter involvement in abnormal negative feedback processing in depression: translational neural imaging and neuropsychological testing.
Stuparu	Mihaiela Corina	Universität Zürich	Organic Chemistry	New optoelectronic materials based on corannulene derivatives
Taylor	Kirsten I.	Universität Basel	Psychology	Transentorhinal Cortex Function and Structure in Preclinical Alzheimer's Disease
Teubner	Jens	ETH Zürich	Information Sciences	Avalanche: Stream Processing on Bare Metal
Vazquez	Franck	Universität Basel	Molecular Biology	Genetic and Molecular Insights into the Regulation of Endogenous RNA Silencing Pathways of Plants
Walter	Martin Alexander	Universität Basel	Clinical Cancer Research	Somatostatin-coupled Nanoparticles for Cancer Imaging and Therapy
Zamagni	Claudio	Université de Lausanne	Religious sciences, Theology	L'"Apocalypse de Paul" apocryphe: édition critique et commentaire

### Ambizione Call 2008: 1<sup>st</sup> Call (37 grants)

Name	First Name	Host Institution	Discipline	Project Title
Abiven	Samuel	Universität Zürich	Pedology	Physical, molecular and microbial evidence of char degradation
Argyaki	Aikaterini	EPF Lausanne	Information Sciences	Internet Accountability
Aue	Tatjana	Université de Genève	Psychology	Neural and somatovisceral processes associated with expectancy bias in spider phobia
Becue	Andy	Université de Lausanne	Chemical Engineering	Development of advanced fingerprint detection techniques based on luminescent nanoparticles
Berking	Matthias	Universität Bern	Psychology	Evaluating the Effectiveness of an Intensive Emotion-Regulation Training as an Adjunctive Intervention in Psychotherapeutic Treatment of Mental Disorders
Casini	Angela	EPF Lausanne	Inorganic Chemistry	Exploring the mechanisms of metal-based pharmacological agents via an integrated approach

Name	First Name	Host Institution	Discipline	Project Title
Dagron	Stéphanie	Universität Zürich	Legal Sciences	Essai de systématisation des politiques de régulation touchant à la mise sur le marché et au suivi des médicaments
Forclaz	Bertrand	Université de Neuchâtel	General history (without pre-and early history)	La guerre de Trente ans aux frontières de l'Empire (1618-1648): appartenance, expérience, mobilité
Gabrecht	Tanja	EPF Lausanne	Other disciplines of Physics	Instrumental developments, optimisation and evaluation of photodynamic therapy of the Crohn's disease
Guillaume	Frédéric	ETH Zürich	Genetics	Genetic determinants of adaptive variation and their evolution in structured populations
Gysel	Martin	PSI Villigen	Climatology, Atmospheric Chemistry, Aeronomy	Soot Nanoparticles in the Past and Present Atmosphere
Huang	Jen-How	ETH Zürich	Pedology	Influence of arsenate adsorption on iron and aluminium hydroxide surfaces on microbial arsenate reduction kinetics
Lachat	Romain	Universität Zürich	Political Sciences	Contextual factors and the spatial model of electoral competition
Lara	Enrique	Eidg. Forschungsanstalt - WSL	Other disciplines of Environmental Sciences	Genetic microdiversity and ecology of protists
Leimgruber	Matthieu	Université de Genève	General history (without pre-and early history)	The emergence of the "crisis of the welfare state": a social and transnational history (1970s-1980s)
Lobmaier	Janek	Universität Bern	Psychology	Processing the "Social" Face
Martin	Oliver Yves	ETH Zürich	Ecology	Evolutionary Conflicts and their Impact on Speciation
Michel	Gisela	Universität Bern	Cancer	Follow-up care after childhood and young adult cancer
Minehira Castelli	Kaori	Université de Lausanne	Pathophysiology	Molecular and nutritional approach for a study of non-alcoholic fatty liver diseases in mice and human
Müller	Cristina	PSI Villigen	Pharmacology, Pharmacy	Folate Receptor Targeting for Imaging and Potential Therapy of Cancerous and Inflammatory Diseases
Rankin	Daniel	Universität Zürich	Ecology	The Evolution and Ecology of Mobile DNA
Sartori	Alessandro	Universität Zürich	Biochemistry	The role of CtIP phosphorylation in DNA double-strand break processing
Savu	Veronica	EPF Lausanne	Material Sciences	Full-Wafer Dynamic Nanostencil Lithography

Name	First Name	Host Institution	Discipline	Project Title
Schmidlin	Eric	Université de Fribourg	Neurophysiology and Brain Research	Physiological investigation of the motor output from motor cortex after transient and permanent inactivation in sub-human primate treated with an antibody enhancing functional recovery of function, assessed by chronically implanted electrodes
Schöbi	Dominik	Université de Fribourg	Psychology	The Coregulation of Daily Affective Experiences in Couples with Young Children
Studer	Michael Hans-Peter	ETH Zürich	Other disciplines of Engineering Sciences	Novel system for the direct fermentation of pretreated lignocellulosic material to ethanol in a single reactor
Surroca Ortiz	Andrea	Universität Basel	Mathematics	On some transcendental and diophantine problems
Thevenon	Florian	Université de Genève	Other disciplines of Environmental Sciences	Natural and anthropogenic mineral aerosols from ice and sediment Alpine records: Climatic, stratigraphic, and environmental implications
Thomos	Nikolaos	EPF Lausanne	Information Sciences	Low cost network coding for collaborative video streaming
Tilg	Stefan	Universität Zürich	Ancient History and Classical Studies	Apuleius and the Ancient Novel
van Dongen	Luc	Université de Fribourg	General history (without pre-and early history)	La "garde anticommuniste" suisse et ses homologues occidentales au temps de la guerre froide : réseaux, milieux et transferts transnationaux (1945-1975)
Vasos	Paul Romeo	EPF Lausanne	Physical Chemistry	Storing slow processes in spin memory: long-lived states
Vuilleumier	Séverine	Université de Lausanne	Ecology	Dynamique des gènes en métapopulations hétérogènes
Walentowitz	Saskia	Universität Bern	Ethnology	Feeding dilemmas. Anthropological perspectives on infant feeding, policies and science in contexts of HIV
Würzner	Gregor	Université de Lausanne	Internal Medicine	Implication and interaction of the renal sympathetic nervous system, the renin-angiotensin-aldosterone system and renal sodium handling in pre-hypertensive or hypertensive states
Yamahata	Christophe	EPF Lausanne	Other disciplines of Engineering Sciences	Micropincettes en Silicium pour l'Instrumentation Biophysique Moléculaire
Zobi	Fabio	Universität Zürich	Inorganic Chemistry	Systematic Approach to Rhenium (II) Building Blocks via Ligand-Mediated Decarbonylation: Prospective and Applications in Medicinal Inorganic Chemistry and for Single-Molecule Magnets

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