



COMPETITION FOR 100 POST-DOC TYPE A TWO YEARS FELLOWSHIPS, FOR A COLLABORATION TO RESEARCH ACTIVITIES

THE RECTOR

- CONSIDERING** Law May 9th 1989 no. 168;
- CONSIDERING** Statuto of Università degli Studi di Milano, issued by Rector's Decree on May 28th 1996 and following modifications;
- CONSIDERING** art. 51, paragraph 6 of Law December 27th 1997 no. 449 that establishes the institution of fellowships for collaboration to research activities;
- CONSIDERING** Decreto Ministeriale February 11th 1998 that establishes the amount of the fellowship and the criteria of assessment;
- CONSIDERING** Decreto Ministeriale February 26th 2004 no. 45 which establishes the minimum and maximum amount of the fellowships;
- CONSIDERING** Regulations concerning fellowships for a collaboration to research activities issued by Rector's decree n. 277916 on April 30th 2010 as from art. 51 paragraph 6 of Law no. 449/97, in particular art. 2 of the Regulations which rules the institution of fellowships to be charged to University budget
- AS** Consiglio d'Amministrazione on 15th December 2009 financed 90 new fellowships for 2010 with approval of University budget;
- AS** Senato Accademico on 16th March 2010 has divided the 90 fellowships for research activity among scientific areas established at University;
- AS** Senato Accademico on 25th May 2010 decided criteria for assessment of candidate's research projects, qualifications, scientific-professional curriculum and decided the date of publication of the present Competition notice;
- CONSIDERING** Senato Accademico on 17th February 2010 and Consiglio di Amministrazione on 23rd February 2010 approved "Progetto Dote Ricercatore" financed by Regione Lombardia which establishes co-financing of Post Doc Type A Fellowships for the years 2010-12;
- AS** by Act n. 3233 on 31st March 2010 Regione Lombardia approved co-financing available for University to finance the Research Project presented and the establishment for 2010 of 100 Post doc Type A Fellowships, 10 of which, not previously divided among the areas, will be assigned by Commissione di Garanzia after comparing the projects presented by candidates who will be considered deserving recommendation by external referees, on the basis of experience and knowledge of the scientific area where the application is presented and as such inserted among the best 10% of the projects;
- AS** on 15 June 2010 Senato Accademico decided to establish Commissione di garanzia and set the date when candidates, who do not hold PhD degree or Medical Specialty yet, will have to achieve such qualification;

ORDAINS

Art. 1 - As from Decreto del Ministero dell'Università e della Ricerca Scientifica e Tecnologica on February 11th 1998 issued in enforcement of art. 51, paragraph 6, Law 449/1997 and of art. 2 of Regulations concerning fellowships for a



collaboration to research activities issued by Rector's Decree no. 267916 on April 30th 2010, University of Milan has launched a competition by qualifications and interview to award 100 two years fellowships for a collaboration to research activities co-financed by Regione Lombardia within "Progetto Dote Ricercatori" restricted to doctorate graduates or graduated holding a diploma in the speciality area of medicine (medical), or health area according to D.M. n. 176 1st August 2005 (list in *Enclosure 1*- is part of the present Competition notice). The 90 fellowships , divided among the scientific areas established at University, are the following:

<i>SCIENTIFIC AREAS</i>	<i>N° ASSEgni DI RICERCA</i>
1. Mathematics	3
2. Physics	4
3. Chemistry	5
4. Geology	2
5. Biology	10
6. Information Sciences	3
7. Medicine	20
8. Agricultural Sciences	7
9. Veterinary Sciences	6
10. Pharmaceutical and pharmacological Sciences	5
11. Law	8
12. Humanities (ancient history, philology, letters, art history)	6
13. History, Philosophy, Pedagogy, Psychology	5
14. Economics and statistics	3
15. Political Sciences and Sociology	3
	90

The further 10 Post Doc - Type A Fellowships, not previously divided among the different areas, will be assigned by Commissione di Garanzia after comparing the projects presented by candidates who will be considered deserving particular recommendation by external referees, on the basis of experience and knowledge of scientific area where the application is presented and on such basis to consider among the best 10% of the projects.

Art. 2 - REQUIREMENTS AND INCOMPATIBILITIES

All those who have earned a PhD and graduated holding a diploma in the speciality area of medicine (medical) can participate in the public competition; in both cases candidates must have proper scientific-professional curriculum to carry out research activity.

Both degrees must have been earned after 16th July 2005, otherwise the candidate will be excluded from the competition. Candidates holding degrees earned abroad (PhD or specialty in medical area) must send together with the application form the degrees translated by an official translator into Italian and certified by the Authorities of the country releasing the degree (unless exempted according to International Agreements). Each degree must be brought with "Declaration of local value" released by Italian Diplomatic Office (Embassy or



Consulate) in the country where the degree was earned. In case the degree was already declared equivalent, the candidate must enclose the related documents.

Candidates must send the application form and the description of a research project to be developed with reference to only one subject among those established in *Enclosure 2*), part of this competition notice. The candidates are asked to develop the project, the abstract and the curriculum in English.

Absence of criminal prosecution is required.

According to laws in force a maximum of eight years among fellowships and PhD is established; only those who have not exceeded such limit can participate in this competition and anyway who can still take advantage of a two years fellowship.

Staff employed in Universities and in the other bodies as from art. 51, paragraph 6, Law 449/97 can participate in the selection: in case of awarding the fellowship, the fellow must resign.

Fellows awarded other grants can participate but must renounce other grants in case of winning the fellowship.

Civil Servants can be awarded the fellowship but must be put on leave without salary in the administration they work for, according to the laws in force.

The qualifications must be held within the deadline established for the presentation of the application form, except for what established for the PhD degree and the medical speciality, which, according to art. 2 paragraph 5 of Regulations and decision by Senato Accademico on 15th June 2010, can be earned within the date of stipulation of the individual contract and anyway not after 31st December 2010.

Art. 3 - APPLICATION FORM AND DEADLINE

The candidates must fill in the application form available on-line at <http://surplus-unimi.cilea.it/ga/registrazione/esterno/index.htm>. This form, although required, does not substitute the paper form which is the result of the form on line. After filling in the application form and related enclosures, candidate will validate and by means of the form on line, print a file and send it to Magnifico Rettore dell'Università degli Studi di Milano by registered letter with return coupon attached (in this case the stamp and date of the post office will be considered) or bring it directly to Ufficio Archivio e Protocollo of Università degli Studi di Milano - Via Festa del Perdono, 7, 20122 Milano- Italy within 16th July 2010: otherwise he/she will be excluded from the competition.

The Administration is not responsible if communications get lost because the address written by the candidate is not correct or a change of address has been communicated lately or not communicated by the candidate or because of mistakes in delivery due to third parties, chance or force majeure.

Application forms without signature or incomplete or sent after the deadline established will not be accepted.

Forms on-line must contain the following information:

- RESEARCH PROJECT CONCERNING ONE SUBJECT AMONG THOSE ESTABLISHED BY THIS COMPETITION;
- DEGREES: (DEGREE AND FINAL MARK WITH DATE OF ACHIEVEMENT; PHD /SPECIALTY DATE AND PLACE OF ACHIEVEMENT)



- ABSTRACT OF PhD THESIS /SPECIALTY (ALSO IN TEMPORARY VERSION IF NOT DISCUSSED YET);
- SPECIALIZATION DEGREES AND MARKS;
- PUBLICATIONS WITH ALL REFERENCES USEFUL FOR A CORRECT IDENTIFICATION;
- SCHOLARSHIPS AND/OR RESEARCH CONTRACTS, ATTENDANCE OF POST-GRADUATE COURSES, RESEARCH ACTIVITY IN ITALY AND/OR ABROAD, FELLOWSHIPS, SCIENTIFIC-PROFESSIONAL CONTRACTS AND APPOINTMENTS, PARTICIPATION IN CONGRESSES, PATENTS;
- OTHER QUALIFICATIONS PROPERLY CERTIFIED.

The Administration could ask the candidates to bring or send the whole documentation of the publications specified in the list and of any other enclosure attached.

Art. 4 - ASSESSMENT

Application forms will be assessed by one Evaluation Commission (hereinafter called Commissione di Garanzia), made up of nine members selected among professors in this University, which will take avail itself of at least two external experts (for each application or for applications concerning the same subject). The list of examiners is established according to art. 2 paragraph 8 of Regulations and approved by Rector's decree.

Each examiner can use up to 12 points, to be divided as follows:

- assessment of the candidate's scientific-professional curriculum up to 6 points
- assessment of the project up to 6 points

The evaluation criteria for candidates' scientific qualifications and scientific-professional curriculum are the following:

- degree mark ;
- PhD thesis;
- specialization degrees and marks;
- attendance of post-graduate courses;
- research activity in Italy;
- research activity abroad;
- *fellowships*, scientific-professional contracts and appointments;
- participation in scientific congresses;
- scientific publications and qualification if available;
- monographic publications and chapters in books;
- patents.

Evaluation criteria for research projects are the following:

- relevance of the project to the subject suggested by the Department;
- originality of the research suggested;
- updating of the project with reference to knowledge acquired;
- appropriate bibliographic reference;
- potential achievement of the project in the space and time available;
- relevance of results potentially achievable.

In case of incomplete or insubstantial evaluation and in case of discrepancy between two evaluations, superior or equal to 6 points, Commissione di Garanzia can ask for a third assessment.

Commissione di Garanzia, on the basis of marks given by referees and after examining consistency and relevance



of procedure, forms a ranking for each area related to the posts. The marks given to qualifications will be given by summing up the two marks earned by each candidate. In case of three assessments, the mark will be given by the average of the three values obtained, expressed in twenty-fourths.

The result of the assessment of the project and of the scientific qualifications of each candidate will be posted up and published in the University web-site.

Candidates who have not earned at least 7 points from at least two examiners are excluded from the ranking.

Candidates in the ranking and placed in position increased of 50% (to round up to the next integer) with reference to the number of posts indicated in the competition notice for the corresponding scientific area, can take part in the interview. The number of those who can take part in the interview can be higher in case more candidates occupy with equal marks the last position available.

The interview will take place with a Commission established by the Rector and suggested by Commissione di Garanzia and made up of a member of Commissione di Garanzia, who is the president, of the president or other member of Comitato d'Area and, as third member, of Director of the Department concerned or of a delegate.

The Commission in charge of the interview can use up to 5 points for each candidate.

The candidates who have to sit for the interview will be called by e-mail at the address communicated by the candidate in the application form; in case of absence, candidates will be automatically excluded from the final ranking.

If the interview shows inconsistency and/or evident incapability in carrying out the project presented, examining commission can suggest Commissione di Garanzia to exclude the candidate by giving proper justification.

Commissione di Garanzia, at the end of the assessment of the candidate, the research project and the interview, will publish the result of the assessment for each candidate and will form a ranking of the candidates, with reference to the marks earned and to posts available for each area. Assessment must end within six months since the transmission, to the referees, of the subjects and the related projects.

If marks, gained in the same scientific area, end in a tie, the fellowship will be assigned to the younger candidate. Commissione di Garanzia, at the end of the procedure for awarding 90 fellowships divided among scientific areas, after comparing projects which, having received excellence recommendation by referees, are considered to be put among the best 10% of each area, will proceed to select among these the 10 candidates who excelled, verbalizing the awarding of further fellowships not previously divided among the different areas. In case one or more candidates above mentioned has already been the winner of the fellowships divided among each area, the candidates in the ranking will take their place, as integration of the amounts established at the beginning for the division of the areas.

A "research grant" equal to Euro 10.000 is given to each of the 10 fellows. Such "research grant" must be used for carrying out the financed research project, according to agreement with the Scientist-in-charge.

The results of the assessment will be formalized by Rector's Decree and published in the University web site.

Art. 5 - FELLOWSHIP AWARDING

The Rector will communicate, by registered letter at the address in the application form, the awarding of the



fellowship to the winners.

Within the deadline mentioned in the communication, the winner must send to the Rector the acceptance declaration required by the Administration, otherwise he/she will lose the post; afterwards he/she will be called to stipulate a contract.

The contract conditions are ruled by Regulations concerning fellowships for collaboration to research activity of University of Milan.

The fellowship implies the achievement of the research project suggested by the candidate, under the supervision of the Scientist-in-charge and at the related structure. The Scientist-in-charge and the candidate will agree on the activities related to the research project which will be carried out during the fellowship and that will be verified periodically, according to modes established by the individual contract.

The awarding of the fellowship does not imply employed work and does not give rights to employment by Universities.

Fellows can participate in the University in commissions for examinations as experts in a specific subject and collaborate to tutoring activities.

The fellowship cannot be added to grants or other types of aid, except for those established for integration of stays abroad, neither with other contracts of collaboration nor with income coming from free lance activities performed with continuity. Extra-university activities as speaker in seminars, conferences or publishing activities and a limited activity of self-employed work are compatible with the fellowship, upon written communication and in agreement with the scientist-in-charge and upon the condition that such activity is declared compatible by the Structure where the fellow performs research activity and does not imply interest conflicts with the research activity performed for the University. Self-employed work cannot exceed the income limits established by Consiglio di Amministrazione equal to a gross yearly amount of 15.000 Euros, with exclusion of remuneration coming from copyright.

Art. 6 - REMUNERATION

The yearly gross amount of the fellowship is of 16.850,00 Euros. The amount does not include expenses for industrial accident insurance and public liability insurance which are charged to the University. The amount is tax free (Irpef exempt) according to art. 4 of Law August 13th 1984 no. 476 and subjected, for what concerns social insurance, to rules as from art. 2, paragraph 26 and following of Law August 8th 1995 no. 335. The amount is paid in monthly postponed instalments.

Art. 7 - ACCEPTANCE AND SIGNING OF THE CONTRACT

Declarations and certifications of acceptance sent by registered letter with reply coupon attached within fifteen days (the stamp and date of the post office will be considered) since the communication by the Rector or brought directly to the appropriate office will be taken into account.

Personal facts and qualities self-attested by the winner of the competition will be checked properly by the University, also by sample, in order to verify their truth.



The winners will be called to stipulate the contract of collaboration to research activity, which will start from the first day of the month following the signature, except justified request of exception by the candidate in agreement with the Scientist-in-charge and anyway for not more than 90 days.

For non-EC subjects the fellowship will start after obtaining the visa for self-employed work and the actual beginning of the research activity.

Art. 8 - LOSS OF THE RIGHT TO THE FELLOWSHIP AND CANCELLATION OF THE CONTRACT

If the contract is not signed within the deadline mentioned by the appropriate office or if the candidate does not achieve the PhD/medical specialty within the stipulation date, or within 31.12.2010, the winner will lose every right to the fellowship,

In case of loss of the right to the fellowship or of renounce by the winners, the fellowships are made available to candidates placed usefully in the ranking. The ranking is valid for 180 days since its approval.

The winners of the fellowships who do not attain themselves to what established by this competition notice and to the Regulations mentioned above will lose every right to the fellowship by means of a Rector's Act upon written notification.

During collaboration activity, if the Fellow does not carry out regularly research activity, without justified reason, or is responsible of serious and continuous malpractice, the procedure of cancellation of the contract will be started, on request of the Scientist-in-charge.

Art. 9 - REFERENCE

For what is not established by this competition notice please refer to the Regulations concerning fellowships for research activity issued by Rector's Decree on April 30th 2010 no. 267916 and the rules in force about the subject.

Art. 10 - PERSONAL INFORMATION

According to D.L. 196/03 University will commit itself to respect all confidential information provided by the candidate: "all information provided will be handled only for aims connected to the selection and to the stipulation and management of relationship with University".

Art. 11 - COMPETITION MANAGEMENT

According to Law August 7th 1990 no. 241, the Head of Office in charge of the competition is Dr. Anna Tavano - Ufficio Contratti di Formazione e Ricerca at Divisione Stipendi e Carriere del Personale - Via S. Antonio n. 12, Milano.

THE RECTOR
Enrico Decleva
(Enrico Decleva)

Reg. al n. 268504 il 15/6/2010



UNIVERSITÀ DEGLI STUDI DI MILANO



Regione Lombardia



UNIVERSITÀ DEGLI STUDI DI MILANO



Regione Lombardia

Enclosure 1

Clinical Biochemistry
Medical Pharmacology
Medical Physics
Health Physics Fisica Sanitaria
Medical Genetics
Microbiology and Virology
Nutrition Science
Clinical Pathology Patologia Clinica



Scientific Area	Id subject			Research project	Description	
Mathematics	1	BARBIERI VIALE	LUCA	DIPARTIMENTO DI MATEMATICA	Enriched Hodge structures and Motives	Motivic cohomology, mixed motives, n-motives and triangulated motives with respect to problems and conjectures in algebraic K-theory and Hodge theory such as Deligne conjectures, Bloch-Beilinson conjectures and Hodge conjecture.
Mathematics	2	BIANCHI	MARIAGRAZIA	DIPARTIMENTO DI MATEMATICA	The Moebius function in the lattice of subgroups of alternating and symmetric groups.	Analysis of the Moebius function in the lattice of subgroups of alternating and symmetric groups, with applications on the properties of the probabilistic zeta function of finite and profinite groups.
Mathematics	3	GAETA	GIUSEPPE	DIPARTIMENTO DI MATEMATICA	Geometry and Symmetry of Differential Equations - Twisted Symmetries of dynamical systems	The research will concern Geometry and Symmetry of Differential Equations (see e.g. Olver's book), in the frame of the Lie-Cartan theory, better if with applications to dynamical systems and "twisted symmetries" (G. Gaeta, J. Nonlin. Math. Phys. 16)
Mathematics	4	PAVARINO	LUCA FRANCO	DIPARTIMENTO DI MATEMATICA	Fast solution techniques for partial differential equations	A major concern in the numerical solution of partial differential equations is the amount of time required to solve the discrete systems. Important techniques to reduce this amount of time are domain decomposition techniques and adaptivity.
Mathematics	5	RIGOLI	MARCO	DIPARTIMENTO DI MATEMATICA	Problems in Geometric Analysis	Study of differential equations of relevance for geometry or physics, in particular the search for solutions of mean curvature vector field equations on surfaces and for solutions of typical equations of conformal geometry
Mathematics	6	RUF	BERNHARD	DIPARTIMENTO DI MATEMATICA	Nonlinear partial differential equations	Nonlinear elliptic equations: - existence, non-existence and multiplicity of solutions - critical growth and related non-compactness and concentration phenomena - qualitative properties of solutions; symmetrisation methods
Mathematics	7	VAN GEEMEN	LAMBERTUS	DIPARTIMENTO DI MATEMATICA	Constructions, moduli and geometry of particular algebraic varieties	Construction of Holomorphic symplectic varieties, Calabi-Yau varieties and surfaces of general type. Derived categories, Mirror symmetry, Moduli and Shimura varieties, automorphisms.
Mathematics	8	VESELY	LIBOR	DIPARTIMENTO DI MATEMATICA	Infinite-dimensional convexity	Convex sets and support properties. Infinite-dimensional polytopes in Banach spaces. Extension of continuous convex functions. Best approximation and Chebyshev centers in Banach spaces.
Physics	9	BELLINI	TOMMASO	DIPARTIMENTO DI CHIMICA, BIOCHIMICA E BIOTECNOLOGIE PER LA MEDICINA	Experimental study of biological soft matter, complex fluids and systems of biomedical relevance	The research focuses on the study of supramolecular organization. The study could combine different techniques: scattering of light, neutrons or x-rays; microscopy; calorimetry; fluorescence; magnetic resonance; numerical simulation.



Physics	10	PARIS	MATTEO	DIPARTIMENTO DI FISICA	Coherent phenomena of fundamental interest and for applications in atomic and quantum-optical systems.	Coherent phenomena in light-matter interaction with applications in quantum technology. The candidate is a theoretician with a background in quantum optics and atomic physics. See more at http://www.fisica.unimi.it/postdoc2010/tematiche
Physics	11	BERSANELLI	MARCO RINALDO FEDELE	DIPARTIMENTO DI FISICA - SEZIONE FISICA DEI PLASMI E ASTROFISICA	Cosmic microwave background: Planck mission, new observations from Antarctica and technological developments	Data analysis of Planck space mission and future observations of the CMB Technological developments of high performance microwave components http://www.fisica.unimi.it/postdoc2010/tematiche
Physics	12	BRACCO	ANGELA	DIPARTIMENTO DI FISICA - SEZIONE FISICA DEL NUCLEO	Studies of Nuclear Structure and Nuclear Reactions in exotic nuclei and their astrophysical Applications	The activity concerns nuclear structure far from stability and nuclear reactions of astrophysical interest. It can be studied both experimentally and theoretically. http://www.fisica.unimi.it/postdoc2010/tematiche
Physics	13	TIANA	GUIDO	DIPARTIMENTO DI FISICA - SEZIONE FISICA DEL NUCLEO	Advanced computational techniques to study proteins	Study of protein folding through advanced molecular dynamics techniques and conformational sampling algorithms. see http://www.fisica.unimi.it/postdoc2010/tematiche
Physics	14	PERINI	LAURA	DIPARTIMENTO DI FISICA - SEZIONE FISICA DELLE PARTICELLE ELEMENTARI	Experimental physics of Particle, Astroparticles and Solar Neutrino	ATLAS data analysis on photon, Higgs, top physics and supersymmetry; study of standard model and new physics with SuperB project and in BaBar data; Borexino on solar neutrinos with energy >200KeV http://www.fisica.unimi.it/postdoc2010/tematiche
Physics	15	CARACCILO	SERGIO	DIPARTIMENTO DI FISICA - SEZIONE FISICA TEORICA	Fundamental interactions and critical phenomena	Critical behaviour in complex systems. Spontaneous symmetry breaking in the Electro-Weak model both in the linear and non-linear cases and consequences for LHC. http://www.fisica.unimi.it/postdoc2010/tematiche
Physics	16	GALLI	DAVIDE EMILIO	DIPARTIMENTO DI FISICA - SEZIONE STRUTTURA DELLA MATERIA	Ab-initio methods for the study of dynamical and transport properties in condensed matter quantum systems and ultracold gases	Development of new techniques in the field of Quantum Monte Carlo methods for the study of dynamical and transport properties of condensed matter systems and ultracold gases. See: http://www.fisica.unimi.it/postdoc2010/tematiche
Physics	17	MILANI	PAOLO	DIPARTIMENTO DI FISICA - SEZIONE STRUTTURA DELLA MATERIA	Nanoscience and nanotechnology	Metal-polymer nanocomposites for applications; Free clusters' study by synchrotron radiation probe in molecular beams; Properties of ionic-liquid / nanomaterials interface for energy applications. http://www.fisica.unimi.it/postdoc2010/tematiche
Chemistry	18	RONDININI	SANDRA	DIPARTIMENTO DI CHIMICA FISICA ED ELETTROCHIMICA	Research and development of nanostructured multiphase materials for electrocatalysis	Multiphase metal and metal oxide electrocatalysts for energy conversion and environmental protection. Design, synthesis and characterization of disperse phase materials and development of electrodic structures



Chemistry	19	SIRONI	MAURIZIO	DIPARTIMENTO DI CHIMICA FISICA ED ELETTROCHIMICA	Rational design of small, drug-like molecules modulators of protein-protein interactions: a metadynamic approach.	Metadynamics approaches to study protein-protein interactions. Rational development of small drug-like molecules modulating protein-protein interactions.
Chemistry	20	CARIATI	ELENA	DIPARTIMENTO DI CHIMICA INORGANICA, METALLORGANICA E ANALITICA	Synthesis and characterization of new inorganic/organic hybrids with enhanced linear and second order non linear optical properties.	Design, synthesis and characterization of new perylene and pyrene chromophores as ligands in - coordination complexes with enhanced linear and second order non linear optical properties - silsesquioxane-hybrid systems for application in OLED.
Chemistry	21	CESAROTTI	EDOARDO	DIPARTIMENTO DI CHIMICA INORGANICA, METALLORGANICA E ANALITICA	Enantioselective catalysts using homogeneous catalysts or biocatalysts: new catalysts and /or processes for chiral bioactive building blocks	Chiral amines by asymmetric reductive amination of ketones vs. asymmetric hydrogenation or reduction by Hydrogen transfer of imines with metal catalysts with tailored chiral ligands. A comparison/integration with microbial reduction of imines
Chemistry	22	GARLASCHELLI	LUIGI	DIPARTIMENTO DI CHIMICA INORGANICA, METALLORGANICA E ANALITICA	Synthesis, characterization and chemical-physics properties of discrete or polymeric compounds containing medium high nuclearity carbonyl clusters	The research activities will consist of: identification of suitable "building blocks", synthesis and characterization of new compounds, study of electrochemical, magnetic and conductivity properties
Chemistry	23	LICANDRO	EMANUELA	DIPARTIMENTO DI CHIMICA ORGANICA E INDUSTRIALE	Thiophene-based chiral heterohelicenes for applications in catalysis.	Chiral carbo- and heterohelicenes as ligands for catalysis have been reported in F. Aloui, B. B. Hassine, Tet. Lett. 2009, 50, 4321-4323 and in references therein.
Chemistry	24	PASSARELLA	DANIELE	DIPARTIMENTO DI CHIMICA ORGANICA E INDUSTRIALE	Application of New Technologies to the Organic Synthesis: Flow Chemistry in the Multistep Synthesis of Pharmaceutical and Natural Substances	Development of flow-based methods that enable the efficient synthesis of complex molecules such as natural substances and pharmaceutical compounds with particular attention toward anticancer and antiangiogenic compounds. Chem Rev 2007, 107, 2300
Chemistry	25	SIRONI	ANGELO AGOSTINO DANIELE	DIPARTIMENTO DI CHIMICA STRUTTURALE E STEREOCHIMICA INORGANICA	Structural behaviour of porous MOF as a function of pressure, temperature and different guests	We plan to study, by high pressure (1-100 Bars) XRPD, the structural modifications of porous Metal Organic Frameworks induced by the adsorption of small molecules (H ₂ O, CO ₂ , CH ₄ , C ₂ H ₂ , H ₂ , CO, Xe ') at different temperatures and pressures
Chemistry	26	BASSOLI	ANGELA	DIPARTIMENTO DI SCIENZE MOLECOLARI AGROALIMENTARI	TRP bioactive compounds from foodplants	Compounds active on TRP receptors involved in chemical sensing and gustation from food plants. Synthesis, SARs, modelling, bioactivity assays with cloned receptors, sensory evaluation; agrifood, gastronomy and pharmaceutical applications.
Chemistry	27	ROSSI	ELISABETTA	DIPARTIMENTO DI SCIENZE MOLECOLARI APPLICATE AI BIOSISTEMI	Novel synthetic methodologies for the synthesis of heterocyclic and hetero(poly)cyclic systems	Foremost targets: reduced synthetic steps, low production of waste products, high structural flexibility. Theoretical and practical development of: domino reactions, multicomponent reactions, click reactions, cycloadditions, and catalysis.



Geology	28	DE CAPITANI	LUISA	DIPARTIMENTO DI SCIENZE DELLA TERRA "ARDITO DESIO"	Environmental problems in areas contaminated by metals: prevention, risk mitigation and remediation	Feasible researches according to academic grant and scientific instruments of Department are here proposed as: geochemical hazard maps acquisition, quantitative approach to hazard evaluation, definition of areas responsible for contamination
Geology	29	ERBA	ELISABETTA	DIPARTIMENTO DI SCIENZE DELLA TERRA "ARDITO DESIO"	The response of calcareous plankton to ocean acidification: learning from the geological record to model present and future global change.	The response of calcareous plankton to ocean acidification is complex and species-specific. Geological records provide data-timing of: a) reactions and adaptations to ecosystem perturbation; b) tempo-mode of evolution
Geology	30	MAROTTA	ANNA MARIA	DIPARTIMENTO DI SCIENZE DELLA TERRA "ARDITO DESIO"	GEODYNAMICS OF THE CALABRIAN ARC: GEOLOGIC, GEOPHYSICAL AND GEODETIC EVIDENCES AND NUMERICAL MODELING	Synergic use of numerical modeling and geologic, geophysical and geodetic data to contribute to solve the question whether the slab subducting underneath the Calabrian Arc is detached at depth and where it is continuous
Geology	31	TARTAROTTI	PAOLA	DIPARTIMENTO DI SCIENZE DELLA TERRA "ARDITO DESIO"	RELATIONSHIPS BETWEEN STRUCTURE, DEFORMATION AND METAMORPHISM IN CONTINENTAL AND OCEANIC ACTIVE MARGINS	The research investigates the relationships between the internal structure of continental (convergent) margins and mid-ocean ridges at various spreading rates, deformation, metamorphism and magmatic activity
Biology	32	BINELLI	ANDREA PAOLO	DIPARTIMENTO DI BIOLOGIA	Illicit drugs as new environmental pollutants: cytogenotoxicity and protein pattern modifications induced into a reference biological model	The research activity will deal with the evaluation of the environmental hazard due to common illicit drugs (cocaine, amphetamines, cannabinoids etc.) by the application of biomarkers and proteomic techniques on the bivalve <i>Dreissena polymorpha</i>
Biology	33	CAPPELLETTI	GRAZIELLA	DIPARTIMENTO DI BIOLOGIA	Role of the microtubular cytoskeleton at the crossroads between neurodegeneration and neuroprotection	The detailed study of the microtubular cytoskeleton in experimental models of neurodegeneration (neuronal cultures and transgenic mice) through multiple approaches (in vitro assays, biochemical analyses, confocal microscopy, live cell imaging).
Biology	34	COLOMBO	LUCIA	DIPARTIMENTO DI BIOLOGIA	Molecular control of ovule development in Arabidopsis	Identification and functional characterization of transcription factors involved in ovule and female gametophyte development in Arabidopsis. Analysis of the role of auxin in controlling the expression of these regulatory genes.
Biology	35	DE BERNARDI	FIorenza	DIPARTIMENTO DI BIOLOGIA	MicroRNAs in morphogenesis and differentiation of basal chordate nervous system	Cloning, expression pattern analysis and functional gene knock-down by antigomer microinjection in <i>Ciona intestinalis</i> embryos of miRNAs predicted as homologous of those expressed in vertebrate CNS and of their cofactors Dicer, Drosha, Pasha.
Biology	36	GALASSI	SILVANA	DIPARTIMENTO DI BIOLOGIA	Glacier retreat and micropollutant release into subalpine lakes	The role of high altitude terrestrial and aquatic environment will be assessed as recent pollution sources by POP for Lakes of Como and Iseo, where a recent increase of fish and mussel pollution was observed.



Biology	37	VENTURIN	MARCO	DIPARTIMENTO DI BIOLOGIA E GENETICA PER LE SCIENZE MEDICHE	Mechanisms of post-transcriptional regulation of the CDK5R1 gene: role in the pathogenesis of cognitive disorders and neurodegenerative diseases	Search for post-transcriptional regulation elements in CDK5R1 3'UTR; mutation analysis of CDK5R1 3'UTR in patients with mental retardation; study of miRNA-mediated CDK5R1 regulation and its role in the pathogenesis of Alzheimer's disease
Biology	38	CHIGORNO	VANNA LUIGIA	DIPARTIMENTO DI CHIMICA, BIOCHIMICA E BIOTECNOLOGIE PER LA MEDICINA	Role of plasma membrane lipid composition in membrane organization and neurodegeneration.	The study deals with the preparation and use of sphingolipids containing a photoactivable probe, for the understanding of neurodegeneration, sphingolipid trafficking and plasma membrane organization.
Biology	39	RIBONI	LAURA	DIPARTIMENTO DI CHIMICA, BIOCHIMICA E BIOTECNOLOGIE PER LA MEDICINA	Role of sphingolipid mediators in glioma tumorigenesis and progression	The aim of the research is to characterize at molecular, metabolic, and cellular level, alterations in the sphingolipid-mediated signaling involved in glioma development and progression.
Biology	40	VENERANDO	BRUNO	DIPARTIMENTO DI CHIMICA, BIOCHIMICA E BIOTECNOLOGIE PER LA MEDICINA	Studies on the inhibition of human and viral sialidases in cell cultures using newly synthesized selective inhibitors of sialic acid derivatives	Synthesis of new inhibitors of human sialidase or neuraminidase, biological experiments programmed to evaluate their inhibitory action should be described together with the evaluation of the results and the indication of their possible application.
Biology	41	POLETTI	ANGELO	DIPARTIMENTO DI ENDOCRINOLOGIA, FISIOPATOLOGIA E BIOLOGIA APPLICATA	Analysis of the mechanisms responsible for neuronal death in motor neuron diseases.	We will investigate the molecular mechanisms responsible for neuronal degeneration in two motor neuron diseases: the amyotrophic lateral sclerosis (ALS) and the spinobulbar muscular atrophy (SBMA).
Biology	42	MINETTI	ALBERTO ENRICO	DIPARTIMENTO DI FISILOGIA UMANA	Complex Motor Acts: Energetics and Skills of Accelerated Learning	Learning complex motor acts is today accelerated by real-time feedback systems. The inverse relationship between metabolic expenditure and motor skills is studied along the assisted learning process to assess the information and energy saving.
Biology	43	GHIDONI	RICCARDO	DIPARTIMENTO DI MEDICINA, CHIRURGIA E ODONTOIATRIA	BIOACTIVE SPHINGOLIPIDS AND RETINITIS PIGMENTOSA	We will evaluate the levels of S1P, an inducer of cell survival, in the retina of Rd10 mouse, a suitable model of RP. If decreased respect to control wt animals, we will normalize them, via topic administration of an inhibitor of S1P turnover
Biology	44	PARONI	RITA	DIPARTIMENTO DI MEDICINA, CHIRURGIA E ODONTOIATRIA	Effect of nutritional status, particularly vitamin K, on development of hemorrhagic complications and bone fractures in older hospitalized patients	Nutritional status of vitamin K, folate, vitamin B12, iron state in a selected population of older patients (>65 yrs) in orthopaedic surgery. Evaluation of the variable affecting the nutritional status before and after the hospitalization.
Biology	45	SAMAJA	MICHELE	DIPARTIMENTO DI MEDICINA, CHIRURGIA E ODONTOIATRIA	Human prostate cancer xenograft as a murine model to assess the effect of hypoxia and hyperoxia on tumor development	Use a murine xenograft model of human prostate cancer cells to evaluate the effects of hypoxia (chronic and intermittent) and hyperoxia, and assess the pathways (apoptosis, adhesion, oxidative stress) leading to tumor development.



Biology	46	GAGLIANO	NICOLETTA	DIPARTIMENTO DI MORFOLOGIA UMANA E SCIENZE BIOMEDICHE - CITTA' STUDI	Pancreatic ductal adenocarcinoma: study of the interaction tumor-microenvironment in a co-culture experimental model	Analysis of the expression of genes and proteins involved in the mechanisms of epithelial-to-mesenchymal transition, tumor invasion and extracellular matrix remodeling in a co-culture model using pancreatic cancer cells and stromal fibroblasts
Biology	47	SFORZA	CHIARELLA	DIPARTIMENTO DI MORFOLOGIA UMANA E SCIENZE BIOMEDICHE - CITTA' STUDI	3D quantitative analysis of facial morphology and mandibular movements in dysmorphic patients	3D quantitative analysis with non invasive instruments (stereophotogrammetry, motion analysis) before and after treatment, and comparison with reference standards to detect the best timing and kind of therapy
Biology	48	VIZZOTTO	LAURA	DIPARTIMENTO DI MORFOLOGIA UMANA E SCIENZE BIOMEDICHE - CITTA' STUDI	MORHOMETRIC ANALYSIS OF ADRENAL CARCINOMA	Morphometrical approach to the morphological features of ACCs and adrenal adenomas by applying immunohistochemical (Ki67) and conventional stains, to furnish a reproducible characterization and to consent an earlier diagnosis of this malignant tumor
Biology	49	GUERRINI	LUISA FRANCESCA	DIPARTIMENTO DI SCIENZE BIOMOLECOLARI E BIOTECNOLOGIE	Regulation of the activity of the p63 transcription factor by endogenous and exogenous stimuli in cellular and murine models	Identification of the molecular mechanisms and cellular components regulating p63 protein stability during tumour progression, using cell cultures systems in vitro and mouse models in vivo
Biology	50	LANDINI	PAOLO	DIPARTIMENTO DI SCIENZE BIOMOLECOLARI E BIOTECNOLOGIE	Novel molecular targets for the development of new antibacterial drugs	Novel molecular targets essential for bacterial cell survival, pathogenicity, or biofilm formation will be characterized in different model bacteria. Inhibitory molecules will be designed or screened for as new antibacterial drug leads.
Biology	51	MANTOVANI	ROBERTO	DIPARTIMENTO DI SCIENZE BIOMOLECOLARI E BIOTECNOLOGIE	Role of NF-Y in the organization of the human genome	NF-Y, key in the activation of "cancer signature" genes, will be analyzed in the context of the ENCODE Project, currently mapping the genomic locations of hundreds of factors and histone marks by ChIP-Seq, in several normal and tumor cell types.
Biology	52	PLEVANI	PAOLO	DIPARTIMENTO DI SCIENZE BIOMOLECOLARI E BIOTECNOLOGIE	Cellular response to DNA damage and pathogenic nucleic acids intermediates in eukaryotes	DNA lesions caused by genotoxic agents are processed by nucleases to be repaired and to activate the DNA damage checkpoint. This processing is also required to respond to pathological structures created in various DNA transactions.
Biology	53	CIUFFREDA	PIERANGELA	DIPARTIMENTO DI SCIENZE CLINICHE "LUIGI SACCO"	Endocannabinoids and related acylethanolamides: a role in metabolic diseases.	The goal of this research is to set up an analytical method to identify and quantify acylethanolamides in biological samples from healthy subjects and patients with metabolic diseases.
Biology	54	MASSIMINI	MARCELLO	DIPARTIMENTO DI SCIENZE CLINICHE "LUIGI SACCO"	Development of novel tools for monitoring plastic changes occurring in the human cerebral cortex	The project involves employing transcranial magnetic stimulation and electroencephalography in order to track longitudinally the state of cortical circuits at the bedside, during treatment, rehabilitation and spontaneous recovery.
Biology	55	MOSCA	ANDREA	DIPARTIMENTO DI SCIENZE E TECNOLOGIE BIOMEDICHE	Genetic determinants controlling protein glycation and de-glycation in humans, in relationship to diabetes mellitus and its chronic	Planning and implementation of a case-control study on genotyping of glycation and de-glycation of human proteins. Identificazion of aptotypes and their relation to the development of diabetic complications.



					complications	
Biology	56	RADAELLI	ANTONIA	DIPARTIMENTO DI SCIENZE FARMACOLOGICHE	Retargeting of arbovirus cytotropism as a new strategy to selectively eradicate cells latently infected by HIV	To cure HIV infected cells we plan the engineering of Sindbis virus to selectively kill latently-infected human cells expressing gp120 HIV env gene product on their surface.
Biology	57	SCARAFONI	ALESSIO	DIPARTIMENTO DI SCIENZE MOLECOLARI AGROALIMENTARI	Investigations on the metabolic and cellular fate and the biological effects of gamma-conglutin, the lupin seed glucose lowering protein	The aim of the project is to elucidate the molecular mechanisms at the basis of the hypoglycemic properties of lupin gamma-conglutin following oral administration, by using in vivo and in vitro models.
Biology	58	PEREGO	CARLA	DIPARTIMENTO DI SCIENZE MOLECOLARI APPLICATE AI BIOSISTEMI	Amino Acid and peptides transporters in human beta-pancreatic cells: physiological role and pathological implications	Amino acid transporters are emerging as key players in the control of insulin secretion and beta-cell survival. Studies on the role of protein-protein interactions in the control of their localization and activity by iRNA, and imaging techniques
Information Sciences	59	BETTINI	CLAUDIO	DIPARTIMENTO DI INFORMATICA E COMUNICAZIONE	Context-aware mobile and pervasive computing	A hot research topic in the area of mobile and pervasive computing is the automatic recognition of the user's activity as well as of the surrounding environment, their representation and management.
Information Sciences	60	DE CINDIO	IORELLA	DIPARTIMENTO DI INFORMATICA E COMUNICAZIONE	Design of web-based social interactive tools and environments	The research concerns web-based social interactive environments (communities, blogs, social networks) with particular attention to the deliberative ones, their incremental and participatory design, and the development of tools supporting them
Information Sciences	61	LUDOVICO	LUCA ANDREA	DIPARTIMENTO DI INFORMATICA E COMUNICAZIONE	Algorithms for the Automatic Synchronization of Audio Digital Objects	Subject: design and implementation of algorithms for the automatic recognition of music-related characteristics in audio files. Goal: automatic synchronization of multimedia digital objects.
Information Sciences	62	PRINI	GIANFRANCO	DIPARTIMENTO DI INFORMATICA E COMUNICAZIONE	A workbench for the integrated study of manuscripts	The workbench shall support the integrated study of different manuscripted copies of the same opus, aimed at the production of critical editions, with integrated annotations and apparatus info, and with the automatic generation of the stemma codicum.
Information Sciences	63	APOLLONI	BRUNO	DIPARTIMENTO DI SCIENZE DELL'INFORMAZIONE	Electrophysiological signal Modeling and Learning by Variable Order Markovian Models and Data Compression Methods	Framework to analyze and model spike trains. The tools will be devoted to the extraction of otherwise undetectable features, crucially relevant for the appraisal of neuronal networks endorsing neurophysiological or pathological dynamics.
Information Sciences	64	BORGHESE	NUNZIO ALBERTO	DIPARTIMENTO DI SCIENZE DELL'INFORMAZIONE	Computational models of cognitive processes	Development of connectionist models of Human cognitive functions (e.g. reading, memory, motor control...), to test hypotheses on the processes involved and to generate predictions to be verified through ad-hoc behavioral experiments



Information Sciences	65	CESA BIANCHI	NICOLO' ANTONIO	DIPARTIMENTO DI SCIENZE DELL'INFORMAZIONE	Prediction of graphs and active learning problems	The project is concerned with the design, analysis, and testing of learning algorithms for two related scenarios: graph prediction and active learning. Special attention will be devoted to scalability and robust performance guarantees.
Information Sciences	66	ORNAGHI	MARIO	DIPARTIMENTO DI SCIENZE DELL'INFORMAZIONE	SMT based Model Checking	Developments of models checkers for distributed and sequential verification problems based on Boolean satisfiability techniques combined with reasoning in expressive theories (like equality, linear arithmetic, arrays, bit-vectors, etc.).
Information Sciences	67	DAMIANI	ERNESTO	DIPARTIMENTO DI TECNOLOGIE DELL'INFORMAZIONE	Information Technologies and Methodologies for Intelligent, Distributed and Cooperative Services	Semantics-aware design, development, composition and management of distributed intelligent adaptive service-oriented systems; compliance and quality of service of functional and non-functional attributes and business sustainability.
Information Sciences	68	PIURI	VINCENZO	DIPARTIMENTO DI TECNOLOGIE DELL'INFORMAZIONE	Information Technologies and Methodologies for Industrial Applications	Innovation in modelling, monitoring, control, signal/image processing, electronic design, and optimization, with information technologies for industrial, environmental, medical, bioinformatic, logistic, decision-support, and electronic applications.
Information Sciences	69	SAMARATI	PIERANGELA	DIPARTIMENTO DI TECNOLOGIE DELL'INFORMAZIONE	Information Technologies and Methodologies for Security and Privacy in Computer Systems and Networks	Techniques and methodologies for security, privacy, and data protection; access control policies, models and systems; networks and information system security; formal methods and models for security.
Medicine	70	BEGHINI	ALESSANDRO	DIPARTIMENTO DI BIOLOGIA E GENETICA PER LE SCIENZE MEDICHE	Cellula staminale leucemica: definizione dei programmi trascrizionali indotti nella leucemia mieloide acuta	La comprensione dei meccanismi genetici e molecolari che regolano i programmi di 'self-renewal' e come le perturbazioni a carico di tali programmi inducano la leucemia mieloide acuta, rappresentano l'obiettivo di questa proposta progettuale.
Medicine	71	LA VECCHIA	CARLO	DIPARTIMENTO DI MEDICINA DEL LAVORO	Risk factors for cancer: lifestyle, diet, environmental factors and family history	This project is aimed at developing and integrating various sources of cancer epidemiology research, including questionnaire data, biobanks and record linkage systems, in order to quantify the risk of major cancers in Italy.
Medicine	72	COSTA	GIOVANNI	DIPARTIMENTO DI MEDICINA DEL LAVORO - "CLINICA DEL LAVORO L.DEVOTO"	Work dis-ability, social costs and rehabilitation in subjects with chronic diseases	20% of people aged 55-65 suffer from chronic diseases influencing with work ability. The study is aimed at assessing social costs, occupational behaviours, risk factors, and relationship between disease and work disability
Medicine	73	FEDERICI	AUGUSTO BRAMANTE	DIPARTIMENTO DI MEDICINA INTERNA	STUDY OF VWF ON PLATELET FORMATION-FUNCTION IN CD34 FROM PATIENTS WITH JAK2 POSITIVE MYELOPROLIFERATIVE DISORDERS: ROLE ON BLEEDING AND THROMBOSIS	VWF-platelet GPIb interactions play a major role in Megakaryocytopoiesis. Aims of this study are the evaluation of VWF activities on MKpoiesis, bleeding and thrombosis in patients with JAK2 positive Myeloproliferative disorders



Medicine	74	CAPPELLINI	MARIA DOMENICA	DIPARTIMENTO DI MEDICINA INTERNA - SEZIONE GRANELLI	ROLE OF TMRSS6 (MATRIPTASE-6) MUTATIONS ASSOCIATED WITH IRON-REFRACTORY IRON DEFICIENCY ANEMIA (IRIDA)	The aim of the study is the analysis of TMRSS6 (matriptasi-6) mutations, involved in regulation of hepcidin expression, in iron-refractory iron-deficiency anemia (IRIDA). For new mutations functional studies will be performed.
Medicine	75	MERONI	PIERLUIGI	DIPARTIMENTO DI MEDICINA INTERNA - SEZIONE GRANELLI	MicroRNA PROFILES AND FUNCTIONS IN VASCULOPATHIES	MicroRNAs (miRNAs) control gene expression at a post-transcriptional level in a redundant/pleiotropic manner. The project will evaluate miRNA profile/function in vasculopathies mediated by pathogenic effectors of the innate and adaptive immunity.
Medicine	76	BOSARI	SILVANO	DIPARTIMENTO DI MEDICINA, CHIRURGIA E ODONTOIATRIA	Identification of novel microRNAs involved in tumor progression in human solid cancers and in murine model of carcinogenesis.	miRNAs are involved in tumor progression. We aim to identify miRNAs implicated in cancer progression and metastatic disease, in animal models of carcinogenesis and in human tumors. Identified miRNA will be functionally characterized.
Medicine	77	CUSI	DANIELE MARIA	DIPARTIMENTO DI MEDICINA, CHIRURGIA E ODONTOIATRIA	METHODS FOR THE DEFINITION OF COMPLEX GENETIC TRAITS	Genome-wide association studies to identify single nucleotide polymorphisms (SNPs) and copy number variants (CNVs) associated to the clinical phenotype, functional pathways/networks genetics analyses, and target sequencing of the candidate regions.
Medicine	78	D'ARMINIO MONFORTE	ANTONELLA	DIPARTIMENTO DI MEDICINA, CHIRURGIA E ODONTOIATRIA	Study of the causal relationships between gut permeability, microbial translocation and immune activation in HIV/AIDS	CD4 lymphopenia in HIV/AIDS is driven by immune activation, sustained by systemic translocation of microbial bioproducts. We aim to assess the association between intestinal permeability, microbial translocation and immune activation in HIV+ patients
Medicine	79	FAIONI	ELENA MARIA	DIPARTIMENTO DI MEDICINA, CHIRURGIA E ODONTOIATRIA	The protein C anticoagulant pathway in the trophoblast: expression, anticoagulant phenotype and participation in NK-mediated immune reactions	Placental protection mechanisms from ischemia will be studied on primary trophoblast cells and cell lines by analyzing the anticoagulant anti-inflammatory protein C pathway
Medicine	80	LARIZZA	LIDIA	DIPARTIMENTO DI MEDICINA, CHIRURGIA E ODONTOIATRIA	Functional characterization of the novel C16orf57 gene	C16orf57 gene has been identified as responsible for Poikiloderma with Neutropenia, Genodermatosis, associated with an elevated risk of acute Myeloid Leukemia. We plan to explore its function in Zebrafish and highlight its signal transduction pathway
Medicine	81	MARCONI	ANNA MARIA	DIPARTIMENTO DI MEDICINA, CHIRURGIA E ODONTOIATRIA	Autophagy in the human placenta: success of failure of an adaptive response' Clinical implications during pregnancy and at delivery	Pregnancy complications are often due to placental dysfunction. Autophagy can promote cell survival, death and differentiation. We will study autophagy in the placenta at different gestational ages in normal and complicated pregnancies
Medicine	82	SIRCHIA	SILVIA MARIA	DIPARTIMENTO DI MEDICINA, CHIRURGIA E ODONTOIATRIA	Tumor-specific nucleolar localization of MARK4L kinase: search of putative interacting partners	MARK4L colocalizes with centrosomes and midbody in gliomas and normal cells. We also observed that MARK4L localised in nucleoli in tumor cells. Final aim is to define the determinants for nucleolar targeting of MARK4L and search for interactors



Medicine	83	BALSARI	ANDREA	DIPARTIMENTO DI MORFOLOGIA UMANA E SCIENZE BIOMEDICHE - CITTA' STUDI	Antitumor activity of repeated locoregional CpG-ODN administrations combined with other anti-tumor therapies in experimental carcinoma models	Evaluate the antitumor activity of locoregional CpG-ODN administrations in combination with other anti-tumor therapies in nude mice xenografted with human ovarian carcinomas and the related immunological mechanisms.
Medicine	84	ZOIA	RICCARDO	DIPARTIMENTO DI MORFOLOGIA UMANA E SCIENZE BIOMEDICHE - CITTA' STUDI	Prospective study on thanatological consecutive phenomena and the influence of environmental variables	Definition of standard parameters and updating of classic procedures for collecting thanatological data and measure the influence of environmental factors, including introduction of alternative methods
Medicine	85	PONTELLO	MIRELLA MARIA	DIPARTIMENTO DI SANITA' PUBBLICA - MICROBIOLOGIA - VIROLOGIA	Epidemiology of Listeriosis in Lombardia focusing on fragile population: the elderly, immunocompromised subjects and pregnant women	Project on Listeriosis aims: 1. to estimate incidence and risk factors in fragile subjects (capture-recapture method) 2. to identify circulating clonal strains (subtyping of human and food strains) 3. to detect clusters (with "scan statistic")
Medicine	86	TANZI	ELISABETTA	DIPARTIMENTO DI SANITA' PUBBLICA - MICROBIOLOGIA - VIROLOGIA	MOLECULAR-VIROLOGICAL APPROACHES FOR THE SURVEILLANCE OF HUMAN PAPILLOMAVIRUS (HPV) INFECTION IN THE VACCINATION ERA	Virological monitoring of human anti-papillomavirus vaccination in adolescents/young women; development and application of molecular assays in various biological samples (cervical brush, urine sample); study of escape mutant variants
Medicine	87	TORTORANO	ANNA MARIA	DIPARTIMENTO DI SANITA' PUBBLICA - MICROBIOLOGIA - VIROLOGIA	EPIDEMIOLOGICAL SURVEILLANCE OF HEALTHCARE-ASSOCIATED INFECTIONS	Active prospective survey of invasive fungal infections to assess the burden and secular trends to identify potential changes in new at risk patient groups and emerging pathogens Implementation of HELICS protocol in ICUs
Medicine	88	LA PORTA	CATERINA	DIPARTIMENTO DI SCIENZE BIOMOLECOLARI E BIOTECNOLOGIE	Melanoma cancer stem cells and drug resistance	A particularly intense topic of investigation is the cell of origin of CSCs. In an international collaboration, my laboratory has begun to address this problem, investigating the relationship between ASC and CSCs.
Medicine	89	MATTURRI	LUIGI	DIPARTIMENTO DI SCIENZE CHIRURGICHE RICOSTRUTTIVE E DIAGNOSTICHE - Via Commenda 19	GENE-ENVIRONMENT INTERACTION IN THE DETERMINISM OF THE UNEXPECTED FETAL AND INFANT DEATH	The purpose of the project is the identification of the correlation of specific genetic alterations of sudden fetal and infant death with risk factors (cigarette smoking, alcohol, drug, air pollution, etc)
Medicine	90	BA	GABRIELLA	DIPARTIMENTO DI SCIENZE CLINICHE "LUIGI SACCO"	Integrated Treatment of Panic Disorder: long term outcome evaluation model.	Aim of the research will be structure and use an evaluation model to study the efficacy of Integrated Treatment for Panic Disorder, with Psychopharmacological and Psychotherapeutic approaches, which could analyze the long term outcome variables.
Medicine	91	CETIN	IRENE	DIPARTIMENTO DI SCIENZE CLINICHE "LUIGI SACCO"	Mitochondrial genes, proteins and their functionality in mothers, placenta and fetuses of normal and pathological conditions of pregnancy.	The role of the mitochondrion in placental insufficiency pathologies. The study of mitochondrial DNA genes, their expression, functionality; the study of mechanisms that control mitochondrial biogenesis, in maternal, placental and fetal tissues.



Medicine	92	GALLI	MASSIMO	DIPARTIMENTO DI SCIENZE CLINICHE "LUIGI SACCO"	EVALUATION OF NOVEL ANTIRETROVIRAL COMPOUNDS THROUGH MOLECULAR BIOLOGY	EVALUATION OF ANTIRETROVIRAL MOLECULES WHICH ARE NEWLY DISCOVERED OR BELONG TO INNOVATIVE PHARMACEUTICAL CLASSES. OPTIMIZATION OF MOLECULAR BIOLOGY TECHNIQUES TO DEFINE ANTIRETROVIRAL ACTIVITY AND RESISTANCE DEVELOPMENT
Medicine	93	MAIER	JEANETTE ANNE MARIE	DIPARTIMENTO DI SCIENZE CLINICHE "LUIGI SACCO"	Amniotic fluid-derived mesenchymal stem cells as a novel cellular tool for bone repair: culture on scaffolds and interactions with the endothelium	Amniotic fluid-derived stem cells are an alternative to allografts or autologous bone grafting in massive bone loss. Optimization of growth on scaffolds and interactions with endothelial cells must be studied to develop a model for cell therapy
Medicine	94	TRABATTONI	DARIA LUCIA	DIPARTIMENTO DI SCIENZE CLINICHE "LUIGI SACCO"	Immunomodulatory effects of chemokine CCL28 in mice immunized with VLPs of mucosal-transmitted viruses	Development of in vivo imaging techniques to verify CCL28 chemokine modulation of mucosal immunity in mice receiving HIV-, H7N1- e HPV16-VLPs that mimic authentic structure of native viruses.
Medicine	95	PERETTI	GIUSEPPE	DIPARTIMENTO DI SCIENZE DELLO SPORT, NUTRIZIONE E SALUTE	Study on the characterization of the knee meniscus and development of neo-formed meniscus by a tissue engineering approach	The objectives of this study is the characterization of normal meniscus morphologically, biochemically, biomechanically, phenotypically in its different portions and the development of meniscal substitutes by tissue engineering techniques
Medicine	96	CLERICI	MARIO SALVATORE	DIPARTIMENTO DI SCIENZE E TECNOLOGIE BIOMEDICHE	Analysis of immunovirologic and methabolic factors in the evaluation of cardiovascular risk in HIV-infected individuals	To evaluate the association between immuno-virologic and methabolic parameters and endothelial dysfunction in HIV+ individuals and the effects of antiretroviral therapy.
Medicine	97	OTTOBRINI	LUISA	DIPARTIMENTO DI SCIENZE E TECNOLOGIE BIOMEDICHE	MULTIMODAL IMAGING FOR CELL-MEDIATED TREATMENTS	Development of procedures to in vivo study cellular distribution, localization, survival and differentiation of specific cell populations in the animal model by nuclear-based, optical and magnetic resonance imaging methods.
Medicine	98	CARLO STELLA	CARMELO	DIPARTIMENTO DI SCIENZE MEDICHE	Antitumor and antivasular activity of CD34+ hematopoietic stem cells engineered to express membrane-bound TRAIL	- In vitro and in vivo analysis of the antitumor and antivasular activity of CD34-TRAIL+ cells alone or in combination with targeted drugs - In vivo imaging of the antitumor and antivasular activity of CD34-TRAIL+ cells
Medicine	99	COLOMBO	MASSIMO	DIPARTIMENTO DI SCIENZE MEDICHE	HISTOMORPHOMETRIC ANALYSIS OF RESIDUAL FIBROSIS IN HCV AND HBV CIRRHOTIC PATIENTS SUCCESSFULLY TREATED WITH ANTIVIRAL THERAPY.	To evaluate, through conventional histological techniques and histomorphometric analysis, if virological response may lead to an improvement of liver architecture in cirrhotics, with the aim to optimize their clinical management.
Medicine	100	LANIA	ANDREA GERARDO ANTONIO	DIPARTIMENTO DI SCIENZE MEDICHE	Bone mineral density and bone quality in patients affected with Diabetes Mellitus type 2: role of individual sensitivity to glucocorticoids.	Type 2 diabetes is associated with fragility fractures in spite of normal bone density. The increased risk of fracture may be linked to a reduced bone quality. Cortisol secretion and the individual sensitivity may play a role.



Medicine	10 1	VECCHI	MAURIZIO	DIPARTIMENTO DI SCIENZE MEDICO-CHIRURGICHE	Novel mechanisms of immunoregulation of mucosal inflammatory responses within the digestive tract	"In vivo", "ex vivo" and "in vitro" evaluation of potential novel immunologic pathways of intestinal inflammatory response regulation, with specific interest towards intestinal barrier functions and innate immunity
Medicine	10 2	COMI	GIACOMO PIETRO	DIPARTIMENTO DI SCIENZE NEUROLOGICHE	Role of the energetic metabolism in neuronal differentiation and neurodegeneration.	The role of energetic dysfunction in neurodegeneration is supported by several evidences. The project studies the influence of oxidative metabolism on in vitro models of neuronal differentiation, adult onset and pediatric neurodegenerative disorders.
Medicine	10 3	SCARPINI	ELIO ANGELO	DIPARTIMENTO DI SCIENZE NEUROLOGICHE	Role of microRNA in the pathogenesis of Alzheimer's disease and Frontotemporal Lobar Degeneration	Micro(mi)RNA expression is altered in brain and cerebrospinal fluid from patients with Alzheimer's disease (AD). Further research is needed to clarify whether these changes are linked to AD specific pathogenic pathways.
Agricultural Sciences	10 4	BANTERLE	ALESSANDRO	DIPARTIMENTO DI ECONOMIA E POLITICA AGRARIA AGRO-ALIMENTARE E AMBIENTALE	Nutritional issues and agro-food policies: promotion tools of fruit and vegetables consumptions and effects on the supply chain.	The project aims to analyse the effectiveness of policies promoting fruit and vegetables consumptions, for the improvement of dietary habits, and to evaluate the economic impact of such measures on the supply chain.
Agricultural Sciences	10 5	OLPER	ALESSANDRO	DIPARTIMENTO DI ECONOMIA E POLITICA AGRARIA AGRO-ALIMENTARE E AMBIENTALE	Economics and politics of genetically modified products: Implications for international trade and technological transfers	The aim of the research project is to analyze international trade and technological transfer implications of the persistent worldwide polarization of the public and private standards on genetically modified organisms in the agri-food sector.
Agricultural Sciences	10 6	BODRIA	LUIGI CARLO MARIA	DIPARTIMENTO DI INGEGNERIA AGRARIA	Application of optical techniques for non destructive food quality evaluation	Design and testing of simplified optical systems for quick analysis of the quality of fresh and Fresh-cut fruit and vegetables (both in field and in post-harvest) and for the evaluation of grape must and wines for an advanced oenology.
Agricultural Sciences	10 7	FIALA	MARCO	DIPARTIMENTO DI INGEGNERIA AGRARIA	Energy production from agricultural and forestry biomass (agro-energy chains): Economic, Energetic and Environmental balances	Analysis of the most common solutions to produce energy from biomass to develop a model able to evaluate a Whole Sustainability (economic, energetic and environmental performances) of the energy-chains as well as to compare and select them easily
Agricultural Sciences	10 8	PROVOLO	GIORGIO MARIO	DIPARTIMENTO DI INGEGNERIA AGRARIA	Strategies and practical solutions to reduce environmental impact of intensive livestock farms	Assessment of alternatives for animal manure management and processing, at farm and catchment level, to reduce the environmental impact of livestock farming and development of a decision support system for the selection of sustainable solutions.
Agricultural Sciences	10 9	ADANI	FABRIZIO	DIPARTIMENTO DI PRODUZIONE VEGETALE	Nano-structure and recalcitrance study of the organic matter as main factors limiting biofuels production from crops and biomass.	The goal of this research consist in the definition, at a nanoscale level, of the physical (nano-porosity) and chemical-physical (hydrophobicity) factors that limit the enzymatic and biological transformation of organic substrate into biofuels



Agricultural Sciences	110	ASSANTE	GEMMA MARIA	DIPARTIMENTO DI PRODUZIONE VEGETALE	Molecular systematics and phytopathological diagnostics of pathogenic and mycotoxigenic <i>Fusarium</i> spp. on corn and wheat by population genetic studies	Genome sequence screening, molecular markers and microsatellites will be applied to analyze genetic structure and variability of pathogenic and mycotoxigenic <i>Fusarium</i> populations isolated in Po Valley as main agents of corn ear and wheat head blights
Agricultural Sciences	111	BASSI	DANIELE	DIPARTIMENTO DI PRODUZIONE VEGETALE	Breeding fruit trees by genomic tools.	Marker assisted breeding of fruit trees for quality (fruit size and firmness/texture, eating quality, etc.) and pest resistance taking advantage of the recently released genomes, e.g. in peach and of the available germplasm.
Agricultural Sciences	112	SACCHI	GIAN ATTILIO	DIPARTIMENTO DI PRODUZIONE VEGETALE	Groundbreaking methods to study the mechanisms of mobilization and acquisition of trace metals in the soil-plant system	The goal of the research is studying the dynamics of trace element absorption (Fe, Zn, Cu, Mn, Cd, As) in rice grown under different oxygen availabilities at the root level, in order to develop molecular marker useful for rice genetic improvement.
Agricultural Sciences	113	ZOCCHI	GRAZIANO	DIPARTIMENTO DI PRODUZIONE VEGETALE	Morpho-structural and functional analysis of plant mitochondria in response to different Fe availability	The aim of the project is the study and the individuation at biochemical and molecular level of new regulative mechanism in mitochondria and the metabolic implications in different plant tissues in response to a different Fe availability.
Agricultural Sciences	114	SARACCHI	MARCO	DIPARTIMENTO DI PROTEZIONE DEI SISTEMI AGROALIMENTARE E URBANO E VALORIZZAZIONE DELLE BIODIVERSITA'	Biology, epidemiology and control of emerging fungal plant pathogens inducing cankers on trees	Among the emerging diseases causing bark cankers on trees, the research proposal will focus on biology and epidemiology of a fungal pathogen with the aim to develop management strategy, preferably biological control
Agricultural Sciences	115	SANDRUCCI	ANNA ALFEA	DIPARTIMENTO DI SCIENZE ANIMALI - SEZIONE DI ZOOTECNICA AGRARIA	Effect of milking system on hygiene and safety of milk and on udder health	Researches on the relationships among operating traits of milking equipment, milking operations, hygiene and safety of milk, milk emission flow and udder health
Agricultural Sciences	116	BORIN	SARA	DIPARTIMENTO DI SCIENZE E TECNOLOGIE ALIMENTARI E MICROBIOLOGICHE	Development of microbial biotechnologies for agriculture and environment	Study of sustainable and 'environmentally friendly' methodologies to promote beneficial microorganisms that stimulate the growth of plants of agricultural interest or prevent microbial fouling of biotic and abiotic surfaces
Agricultural Sciences	117	CASIRAGHI	ERNESTINA	DIPARTIMENTO DI SCIENZE E TECNOLOGIE ALIMENTARI E MICROBIOLOGICHE	Application of innovative methods for food quality prediction and for studying food modifications during food processing and storage.	Innovative methods (NIR and MIR spectroscopy, NIR hyperspectral imaging, image analysis and e-nose), combined with chemometric strategies for food quality prediction and for studying food modifications during food processing and storage.
Agricultural Sciences	118	MANNINO	SAVERIO	DIPARTIMENTO DI SCIENZE E TECNOLOGIE ALIMENTARI E MICROBIOLOGICHE	Food Bionanotechnology	The aim of the present research is to develop nanostructured materials to be used in the food sector as packaging materials, process and product coadjuvants and as support for the design of nano-bio-sensors for quality control.



Agricultural Sciences	11 9	MORA	DIEGO	DIPARTIMENTO DI SCIENZE E TECNOLOGIE ALIMENTARI E MICROBIOLOGICHE	CONFRONTING THE CLINICAL RELEVANCE OF BIOCIDES INDUCED ANTIBIOTIC RESISTANCE IN FOOD BACTERIA	GRAS microorganisms commonly used in the food processes may represent a reservoir of potential biocide and biocide/antibiotic resistances transferable by horizontal gene transfer to spoilage and/or pathogenic microorganisms.
Agricultural Sciences	12 0	PAGANI	MARIA AMBROGINA	DIPARTIMENTO DI SCIENZE E TECNOLOGIE ALIMENTARI E MICROBIOLOGICHE	ADVANCED APPROACHES FOR THE STUDY OF INTERACTIONS AMONG BIOPOLYMERS IN CEREAL MATRICES	Study of the interactions among polymers in gluten and gluten-free systems, correlated to pasta-making process. These interactions will be investigated by using spectroscopic, physical, and ultrastructural approaches.
Veterinary Sciences	12 1	BONIZZI	LUIGI	DIPARTIMENTO DI PATOLOGIA ANIMALE, IGIENE E SANITA' PUBBLICA VETERINARIA	Molecular methods to study pathogenicity and resistance in bacteria of veterinary interest	Analysis of metabolic and functional pathways, such as protein post-translational modifications, related to resistance and pathogenicity in zoonotic bacteria
Veterinary Sciences	12 2	BRONZO	VALERIO	DIPARTIMENTO DI PATOLOGIA ANIMALE, IGIENE E SANITA' PUBBLICA VETERINARIA	Gram negative infections in domestic ruminants: phenotypic and molecular aspects of the main pathogenic factors	Aim of the study is the analysis of several pathogenic factors in Gram negative bacteria isolated in ruminants, represented both by cell associated structures and by extracellular substances, in response to quorum sensing system modulations
Veterinary Sciences	12 3	MANFREDI	MARIA TERESA	DIPARTIMENTO DI PATOLOGIA ANIMALE, IGIENE E SANITA' PUBBLICA VETERINARIA	In vitro screening of autochthonous plants with antiparasitic activities for the complementary control of gastrointestinal parasites of ruminants	Development of in vitro methods for the evaluation of bioactive compounds of plant fodder grown in Italy against gastrointestinal nematodes of ruminants with particular reference to the genera Teladorsagia, Haemonchus and Trichostrongylus.
Veterinary Sciences	12 4	MORTARINO	MICHELE	DIPARTIMENTO DI PATOLOGIA ANIMALE, IGIENE E SANITA' PUBBLICA VETERINARIA	Arthropod vectors and vector-borne diseases	Biomolecular research in genetics, diagnostics and epidemiology of vectors, vector-borne pathogens and microorganisms of entomological relevance, with regard to farm animals, companion animals and wild animals
Veterinary Sciences	12 5	PALTRINIERI	SAVERIO	DIPARTIMENTO DI PATOLOGIA ANIMALE, IGIENE E SANITA' PUBBLICA VETERINARIA	Analytical and biological validation of molecules potentially useful for pathogenic and diagnostic studies on inflammation of domestic animals	The research project must be focused on analytical (e.g. method validation) and biological (possible pathogenic and diagnostic usefulness) aspects of molecules involved in inflammation (especially of infectious origin) in domestic animals
Veterinary Sciences	12 6	LUCIANO	ALBERTO MARIA	DIPARTIMENTO DI SCIENZE ANIMALI - SEZIONE DI ANATOMIA ED ISTOLOGIA VETERINARIA	Epigenetic regulation during mammalian oogenesis and risks related to assisted reproductive technologies	Study of putative epigenetic disorders related to the application of assisted reproduction techniques (ART) in order to identify the risks associated with the use of ART in animal husbandry as well as in human medicine
Veterinary Sciences	12 7	FERRANTE	VALENTINA	DIPARTIMENTO DI SCIENZE ANIMALI - SEZIONE DI ZOOTECNICA VETERINARIA	Enhancement of biodiversity through the production and behavioral characterization of indigenous poultry breeds.	Improvement of poultry industry through the preservation of biodiversity and the production of chickens for meat quality. Characterization of native species by breeding and fattening tests (pure and cross subject), in respect of animal welfare.
Veterinary Sciences	12 8	LUZI	FABIO	DIPARTIMENTO DI SCIENZE ANIMALI - SEZIONE DI ZOOTECNICA VETERINARIA	Application of thermography as a non-invasive technique for the study of well-being and health status in	Application of methods developed and defined in recent years, which allowed the determination of optimal procedures necessary to measure temperature using thermography, working both on the livestock and pet species.



					animals.	
Veterinary Sciences	12 9	FAVERZANI	STEFANO	DIPARTIMENTO DI SCIENZE CLINICHE VETERINARIE	POTENTIAL BIOMARKERS FOR RISK ASSESSMENT FOR DEVELOPMENT OF HEPATIC LIPIDOSIS ON OBESE CATS	Evaluation of serum glucidic and lipidic profile associated with potential biomarkers for risk assessment for development of hepatic lipidosis in affected cats
Veterinary Sciences	13 0	LUVONI	GAIA CECILIA	DIPARTIMENTO DI SCIENZE CLINICHE VETERINARIE	Cryopreservation of ovarian tissue and oocytes of animal models	The evaluation of different protocols on tissue and gametes of animal origin (Carnivores) may improve the efficiency of ovarian tissue and oocyte cryopreservation before the application to fertility restoration in human medicine.
Veterinary Sciences	13 1	PROVERBIO	DANIELA	DIPARTIMENTO DI SCIENZE CLINICHE VETERINARIE	ESTABLISHMENT OF A TRASFUSION VETERINARY CENTER FOR CONSERVATION AND USE OF WHOLE BLOOD, STUDY OF BLOOD GROUP AND BLOOD PRODUCTS CLINICAL APPLICATIONS	ESTABLISHMENT OF A TRANSFUSION VETERINARY CENTER FOR CONSERVATION OF WHOLE BLOOD FROM SELECTED AND TRACEABLE DONORS. ADVANCING KNOWLEDGE OF BLOOD GROUPS AND BLOOD PRODUCTS AND PLATELET RICH PLASMA CLINICAL APPLICATIONS
Veterinary Sciences	13 2	STEFANELLO	DAMIANO	DIPARTIMENTO DI SCIENZE CLINICHE VETERINARIE	SYMBLEPHARON IN CAT: COMPARISON BETWEEN DIFFERENT SURGICAL TREATMENTS, IMMUNOHISTOCHEMICAL AND ETIOPATHOGENETIC CHARACTERIZATION.	TO PROPOSE AN EFFECTIVE SURGICAL THERAPY OF SYMBLEPHARON IN CAT AND TO PERFORM A HISTOPATHOLOGICAL AND IMMUNOHISTOCHEMICAL CHARACTERIZATION OF THE DISEASE, FOUNDAMENTAL IN PLANNING ITS MANAGEMENT.
Veterinary Sciences	13 3	CEROLINI	SILVIA	DIPARTIMENTO DI SCIENZE E TECNOLOGIE VETERINARIE PER LA SICUREZZA ALIMENTARE	Conservation of avian genetic resources	The aim is to develop research activities on conservation of avian genetic resources. According to the FAO guidelines, both in situ and ex situ in vitro strategies are studied in order to gain the experience required for wide conservation programme.
Veterinary Sciences	13 4	CHIESA	LUCA MARIA	DIPARTIMENTO DI SCIENZE E TECNOLOGIE VETERINARIE PER LA SICUREZZA ALIMENTARE	Irradiation chemical markers in chicken meat and shrimps.	The research aim is point out chromatographic analytical methods for the determination in chicken and shrimps of chemical markers suitable to identify irradiated samples and the deduce the used dose
Veterinary Sciences	13 5	CORINO	CARLO	DIPARTIMENTO DI SCIENZE E TECNOLOGIE VETERINARIE PER LA SICUREZZA ALIMENTARE	Nutraceuticals in swine nutrition: welfare, meat and meat products quality	Evaluation of substances with nutraceutical activities on welfare in piglets and growing-finishing pigs and on nutritional and sensory properties of pork and pork products, in order to improve food safety and dietetic properties of meat
Veterinary Sciences	13 6	DELL'ORTO	VITTORIO	DIPARTIMENTO DI SCIENZE E TECNOLOGIE VETERINARIE PER LA SICUREZZA ALIMENTARE	Lipid metabolism in peri-parturient dairy goats: influence of nutrition on gene expression in hepatic and fat tissues	Study of the expression of hepatic and adipose tissue key role genes involved in lipid metabolism in periparturient dairy goats fed different lipid sources.



Veterinary Sciences	137	MORETTI	VITTORIO MARIA	DIPARTIMENTO DI SCIENZE E TECNOLOGIE VETERINARIE PER LA SICUREZZA ALIMENTARE	Biomarkers of oxidative stress in farmed fish	Evaluation and measurement of oxidative stress biomarkers in farmed fish in relation to diet, fish health and welfare
Pharmaceutical and pharmacological Sciences	138	ARNOLDI	ANNA	DIPARTIMENTO DI ENDOCRINOLOGIA, FISIOPATOLOGIA E BIOLOGIA APPLICATA	Nutraceuticals and functional foods: role of plant proteins and bioactive peptides for the prevention of cardiovascular disease.	The role of dietary plant proteins and peptides in the reduction of the main risk factors of cardiovascular disease will be investigated by studying the inhibition of specific enzymes and modulation of genes involved in lipid metabolism.
Pharmaceutical and pharmacological Sciences	139	FORNASARI	DIEGO MARIA MICHELE	DIPARTIMENTO DI FARMACOLOGIA, CHEMIOTERAPIA E TOSSICOLOGIA MEDICA	The role of the transcription factor PHOX2B in gene expression control in the Autonomic Nervous System.	PHOX2B is a transcription factor essential for the development of the autonomic nervous system and its mutations are responsible for neurocristopathies such as CCHS. By genome-wide ChIP we intend to identify the direct PHOX2B target genes.
Pharmaceutical and pharmacological Sciences	140	MARELLI	ORNELLA	DIPARTIMENTO DI FARMACOLOGIA, CHEMIOTERAPIA E TOSSICOLOGIA MEDICA	STUDY IN EXPERIMENTAL MODELS OF SPECIFIC PEPTIDE VACCINES FOR THE CHRONIC MYELOID LEUKEMIA	Peptide vaccination as a weapon for the eradication of the residual disease in the chromosome Philadelphia positive patients. Evaluation of the immunogenicity of the new tumoral antigen Bcr / Abl OOF in transgenic mice HLA A2.1 positive.
Pharmaceutical and pharmacological Sciences	141	MATTEOLI	MICHELA	DIPARTIMENTO DI FARMACOLOGIA, CHEMIOTERAPIA E TOSSICOLOGIA MEDICA	MOLECULAR DETERMINANTS OF NEURONAL EXCITABILITY: ROLE OF SNAP-25 IN EPILEPSY	Aim of the proposal is to define the mechanisms by which variations in the expression of SNAP-25, occurring in psychiatric diseases, affect neuronal excitability leading to an altered electroencephalographic profile
Pharmaceutical and pharmacological Sciences	142	NISOLI	ENZO	DIPARTIMENTO DI FARMACOLOGIA, CHEMIOTERAPIA E TOSSICOLOGIA MEDICA	Study of the anti-cancer effects of calorie restriction in rodents: the role of mitochondrial biogenesis	Ionizing radiations cause premature aging, with cardiovascular diseases and cancer. These conditions are linked to dysregulation of mitochondrial energy metabolism. Calorie restriction increases mitochondrial biogenesis and delays cancer development.
Pharmaceutical and pharmacological Sciences	143	GORIO	ALFREDO	DIPARTIMENTO DI MEDICINA, CHIRURGIA E ODONTOIATRIA	Promoting recovery of function from spinal cord injury. A regenerative approach	Functional recovery after spinal cord injury may not be a dream. We observed that adult neural stem cell ischemia-resistant are erythropoietin-dependent, and accumulate at injury site where differentiate in neurons.
Pharmaceutical and pharmacological Sciences	144	LESMA	ELENA ANNA	DIPARTIMENTO DI MEDICINA, CHIRURGIA E ODONTOIATRIA	Creation of an animal model for the study of Lymphangioliomyomatosis (LAM), a rare lethal disease	Lungs of LAM patients are destroyed by TSC2 smooth muscle cells (SMCs). We have purified SMCs from the chylous of a LAM patient. The cells are labelled by HMB45 and CD44v6 antibodies, markers of LAM and TSC cells, and bear a germline TSC2 mutation.
Pharmaceutical and pharmacological Sciences	145	DE AMICI	MARCO	DIPARTIMENTO DI SCIENZE FARMACEUTICHE "PIETRO PRATESI"	Design and synthesis of novel bitopic orthosteric/allosteric derivatives to investigate the activation mechanisms of muscarinic receptors	The research activity will be focused on the design, the synthesis and the pharmacological study of novel molecular probes able to simultaneously interact with the orthosteric and allosteric recognition sites of muscarinic receptor subtypes



Pharmaceutical and pharmacological Sciences	146	GAZZANIGA	ANDREA	DIPARTIMENTO DI SCIENZE FARMACEUTICHE "PIETRO PRATESI"	Application of extrusion techniques to the preparation of devices intended for the oral administration of drugs	The research domain involves the design and preparation, by means of extrusion techniques (hot-melt extrusion or injection molding), of delivery platforms for the release of drugs into specific regions of the gastrointestinal tract.
Pharmaceutical and pharmacological Sciences	147	PALLAVICINI	MARCO	DIPARTIMENTO DI SCIENZE FARMACEUTICHE "PIETRO PRATESI"	Design, synthesis and pharmacological characterization of new subtype-selective neuronal nicotinic ligands	The study will involve design and synthesis of novel compounds able to selectively interact with specific neuronal nicotinic receptor subtypes with the aim of developing new pharmacological tools and improved therapeutic agents.
Pharmaceutical and pharmacological Sciences	148	ROMEO	SERGIO	DIPARTIMENTO DI SCIENZE FARMACEUTICHE "PIETRO PRATESI"	Design, synthesis and study of the mechanism of action of new non-quinolinic antimalarial compounds.	Design and synthesis of new antimalarial compounds; study of new intraerythrocytic targets.
Pharmaceutical and pharmacological Sciences	149	BOSISIO	ENRICA ANGELA	DIPARTIMENTO DI SCIENZE FARMACOLOGICHE	MEDICINAL PLANTS AND INFLAMMATION	In vitro study of the molecular mechanisms of the effect of anti-inflammatory herbal drugs in cellular models stimulated with proinflammatory agents
Pharmaceutical and pharmacological Sciences	150	CATAPANO	ALBERICO LUIGI	DIPARTIMENTO DI SCIENZE FARMACOLOGICHE	Hepatic PCSK9 gene silencing: new therapeutic option for the treatment of hypercholesterolemias	New approaches in the control of hypercholesterolemias based on hepatic gene silencing mediated by siRNA and PNA. The case of proprotein convertase subtilisin/kexin type 9 (PCSK9).
Pharmaceutical and pharmacological Sciences	151	CATTANEO	ELENA	DIPARTIMENTO DI SCIENZE FARMACOLOGICHE	RESCUE OF RE1/NRSE PAHOLOGY IN HD	The aim is to block the interaction of REST with its regulatory elements thereby restoring the depleted levels of BDNF as well as RE1-gene transcription globally in HD neurons. We will use a dominant-negative REST, REST shRNA and REST decoys.
Pharmaceutical and pharmacological Sciences	152	MAGGI	ADRIANA CATERINA	DIPARTIMENTO DI SCIENZE FARMACOLOGICHE	Study of the transcriptome and cistrome of Estrogen Receptor alpha: towards the generation of safer and more effective hormone replacement therapies	Analysis of genes regulated by Estrogen Receptor in specific phases of the reproductive cycle aimed to the identification of tissue-specific markers for the generation of new nutritional and pharmaceutical therapies for the menopause.
Law	153	DELFINI	FRANCESCO	DIPARTIMENTO DI DIRITTO PRIVATO E STORIA DEL DIRITTO	Persons entitled to reserved part of the estate of the deceased: the Civil Code legal system and the developments of the law of succession.	Law of succession: petition in case the due share of a rightful heir has been harmed by gifts or testament disposed by the deceased. A particular discussion of the new art. 563 Civil Code and other developments of the law.
Law	154	DI RENZO	MARIA GIGLIOLA	DIPARTIMENTO DI DIRITTO PRIVATO E STORIA DEL DIRITTO	Changing law. Justice, law courts, and legal professions around 1814: interruption or continuity'	Napoleonic era left ineradicable signs in the judicial organization in Europe. The Restoration brought changes to the Napoleonic structure, not its rejection. The aim of the research is to verify what was introduced before 1814 and how this was modified.



Law	15 5	GNOLI	FRANCO	DIPARTIMENTO DI DIRITTO PRIVATO E STORIA DEL DIRITTO	The 'cessio bonorum' in the execution's proceedings	Historical analysis of jurisprudential and legal sources and of their doctrinal interpretation about insolvent debtor's patrimonial execution
Law	15 6	RESCIGNO	MATTEO	DIPARTIMENTO DI DIRITTO PRIVATO E STORIA DEL DIRITTO	Public offering of securities and resales restrictions.	A functional approach to public offerings and resales restrictions. Resales restrictions of securities distributed through a non public offering in the light of a comparison between US solutions and Italian Securities Act reform.
Law	15 7	TENELLA SILLANI	CHIARA	DIPARTIMENTO DI DIRITTO PRIVATO E STORIA DEL DIRITTO	CONTRACTUAL AUTONOMY AND CONTRACTS OF FINANCIAL GUARANTY	This research is addressed to analyze the decree (d.lg. n. 170 del 2004), implementing directive 2002/47/CE, that includes an uniform doctrine regarding financial guaranties to assure market stability and the free circulation of capitals.
Law	15 8	VILLA	GIANROBERTO	DIPARTIMENTO DI DIRITTO PRIVATO E STORIA DEL DIRITTO	Content and performance of contract in the independent authorities regulation	Analysis of the authorities' interventions as regards both content of contract terms and the definition of performance quality standards and consequences concernig liability for breach of contract
Law	15 9	BERTONAZZI	LUCA SANTINO	DIPARTIMENTO DI DIRITTO PUBBLICO, PROCESSUALE CIVILE , INTERNAZIONALE ED EUROPEO	Administrative Justice System and European Law	The aim of the research is the study of the relationship between European Law and the Italian Adminisitrative Justice System
Law	16 0	CASTAGNOLA	ANGELO	DIPARTIMENTO DI DIRITTO PUBBLICO, PROCESSUALE CIVILE , INTERNAZIONALE ED EUROPEO	Arbitration and valuation proceeding. Evidence	Procedural aspects of the italian arbitration and valuation system: parties 'guarantees and rights, arbitrators' 'rule-making power'(and its limits) with reference to the procedural phase and evidence subproceeding
Law	16 1	TREVES/NASCIM BENE	TULLIO	DIPARTIMENTO DI DIRITTO PUBBLICO, PROCESSUALE CIVILE , INTERNAZIONALE ED EUROPEO	Participation of the public and amici curiae in the proceedings before international tribunals and arbitrations and the need to ensure transparency	The project aims at analyzing the involvement in the proceedings of those subjects who while not parties to it, are in some respect concerned. Special attention will be given to the proceedings before ECJ, ICC, ICSID and NAFTA arbitral tribunals.
Law	16 2	VIOLINI	LORENZA	DIPARTIMENTO DI DIRITTO PUBBLICO, PROCESSUALE CIVILE , INTERNAZIONALE ED EUROPEO	the protection of social rights among policy and case law	to research and evaluate the impact of social policies and their effectiveness within the protection of social rights (at legislative, administrative and case law level).
Law	16 3	ZANON	NICOLO'	DIPARTIMENTO DI DIRITTO PUBBLICO, PROCESSUALE CIVILE , INTERNAZIONALE ED EUROPEO	The role of the Government in Parliament: analysis and ideas for the future	The research regards the efficiency of the tools of the Government during the parliamentary procedure. The project aims to discover ways to increase the power of the Government and to reduce the misuse of outstanding tools



Law	16 4	ZANON	NICOLO'	DIPARTIMENTO DI DIRITTO PUBBLICO, PROCESSUALE CIVILE, INTERNAZIONALE ED EUROPEO	The parliamentary opposition in the light of evolution of the Italian form of government.	The research shall focus on institutionalization of parliamentary opposition through ordination of rights, duties and prerogatives, in the light of evolution of the Italian form of government.
Law	16 5	PALIERO	CARLO ENRICO	DIPARTIMENTO DI SCIENZE GIURIDICHE ECCLESIASTICISTICHE, FILOSOFICO-SOCIOLOGICHE E PENALISTICHE "Cesare Beccaria"	Criminal liability between corporations and corporate group	The subject refers to criminal liability, also corporate criminal liability, forms in multifaceted organizations with special regard in corporate group and its role as criminal liability imputation factor or restraint for corporate crimes.
Law	16 6	TURSI	ARMANDO	DIPARTIMENTO DI STUDI DEL LAVORO E DEL WELFARE	Complementary pension funds as juridical persons: a comparative research. Ways for instituting, modifying and extinguishing pension funds in Europe	the research project shall follow two approaches: 1) an interdisciplinary one, so that the study of labour law may meet that of commercial law; 2) a comparative approach, in order to confront Civil law and Common Law systems.
Law	16 7	DI GREGORIO	ANGELA	DIPARTIMENTO DI STUDI INTERNAZIONALI	The role of direct democracy in the comparison between the old and new Europe	The aim of the project is to examine the evolution and the role of a series of direct and representative democracy institutions in comparing the old and new member States of the European Union.
Law	16 8	LUPONE	ANGELA MARIA GABRIELLA	DIPARTIMENTO DI STUDI INTERNAZIONALI	Enforcement of Intellectual Property Rights in the EU Legal Order	The research aims at analysing the mechanisms provided for in EU law concerning the enforcement of intellectual property rights and their relevance as instruments for the promotion and protection of EU business competitiveness.
Law	16 9	AMMANNATI	LAURA	DIPARTIMENTO GIURIDICO-POLITICO	Toward a new approach to regulation: libertarian paternalism and "nudge" (strategies based on information/ aimed at stimulating desirable behaviour)	Based on Thaler and Sunstein's notion "nudge regulation" the programme should focus on the nudging techniques (esp. energy and health care sectors); the legal problems concerning non-binding regulation
Law	17 0	DE MARCO	EUGENIO	DIPARTIMENTO GIURIDICO-POLITICO	ELECTORAL SYSTEMS AND INSTITUTIONAL TRANSFORMATIONS	RESEARCH ACTIVITY WILL BE DEVOTED TO AN ANALYSIS OF RELATIONS BETWEEN ELECTORAL SYSTEMS AND REPRESENTATIVE DEMOCRACY IN THE TRANSFORMATION PROCESS OF THE POLITICAL INSTITUTIONS.
Humanities (ancient history, philology, letters, art history)	17 1	BONOMI	ILARIA	DIPARTIMENTO DI FILOLOGIA MODERNA	Italian language and music in modern and contemporary age	The research project aims at exploring and analysing the language of Italian opera texts/libretti in connection with musical tone and the Italian vocabulary of music
Humanities (ancient history, philology, letters, art history)	17 2	D'AGOSTINO	ALFONSO	DIPARTIMENTO DI FILOLOGIA MODERNA	Classical and Late-Ancient traditions in Medieval Italian literature: an outline of possible editions	The research must culminate into a critical edition of a Medieval Italian work, which should either be the translation into vernacular of a Classical or Late-Ancient work, or show plain connections with Greek or Latin literature of the relevant ages.



Humanities (ancient history, philology, letters, art history)	17 3	ESPOSITO	EDOARDO	DIPARTIMENTO DI FILOLOGIA MODERNA	Avant-gardes and experimental literature in the twentieth century: language, genres and editorial mediation	Twentieth century avant-garde and experimental literature will be analysed through the study of the materials conserved at Apice archives (Reggi Fund, Scheiwiller Fund) in order to assess choices concerning genre and language
Humanities (ancient history, philology, letters, art history)	17 4	CALVI	MARIA VITTORIA	DIPARTIMENTO DI LINGUE E CULTURE CONTEMPORANEE	Linguistic aspects of Hispanic immigration in Italy	The research aims to examine the language contact as a result of the presence of Spanish as an immigrant language, the linguistic behaviour of Spanish speaking communities, and the role of language in social integration and in identity processes.
Humanities (ancient history, philology, letters, art history)	17 5	CATENACCIO	PAOLA	DIPARTIMENTO DI LINGUE E CULTURE CONTEMPORANEE	Medical popularisation and health education in English: linguistic strategies and information accessibility	The project will investigate the linguistic strategies aimed at making medical and scientific information in English accessible to the public at large, building on existing literature on scientific popularization and public communication.
Humanities (ancient history, philology, letters, art history)	17 6	ORESTANO	FRANCESCA	DIPARTIMENTO DI SCIENZE DEL LINGUAGGIO E LETTERATURE STRANIERE COMPARATE	Literature, theatre and medical science: languages and discourses of the scientific revolution	A corpus of XVIIIc British texts draws the boundaries between scientific language, fiction and the theatre. The cultural relevance of the project highlights the role of scientific language and other discourses in the contemporary epistemic context.
Humanities (ancient history, philology, letters, art history)	17 7	PATEY	CAROLINE	DIPARTIMENTO DI SCIENZE DEL LINGUAGGIO E LETTERATURE STRANIERE COMPARATE	Anglophone literatures in twentieth-century Milan: Encounters, cross-fertilization, translations	The project aims at charting the complex web of the XX Anglophone network in Milanese culture/literature, in order to retrieve and analyse the international vocation of a city defined by its pioneering publishing system and its avant-garde groups.
Humanities (ancient history, philology, letters, art history)	17 8	ROSSO	MARIAORSOLA	DIPARTIMENTO DI SCIENZE DEL LINGUAGGIO E LETTERATURE STRANIERE COMPARATE	Telling a halfbreed contemporaneity: languages stratifications, generic narrative and editorial patterns in Hispanic cultures	The aim is to investigate the plurality and fusion of expressive languages in contemporary times, the translating implications, the dynamics of literary genres and editorial products, including multimedia and didactic perspectives.
Humanities (ancient history, philology, letters, art history)	17 9	CACITTI	REMO	DIPARTIMENTO DI SCIENZE DELLA STORIA E DELLA DOCUMENTAZIONE STORICA (MEDIOEVO, ETA' MODERNA, ETA' CONTEMPORANEA)	Exegesis in Comparison. The Birth of Christian Iconography as Documentation of Liturgical Exegesis; Similarities and Differences vis-a-vis Patristic	The research includes the iconography in the debate on ancient Christian exegesis training, identifying the strong link between the liturgical context and the first Christian visual documentation (II-IV Cent.) as the fundamental heuristic criterion



Humanities (ancient history, philology, letters, art history)	180	BEJOR	GIORGIO	DIPARTIMENTO DI SCIENZE DELL'ANTICHITA'	Europe and the Mediterranean Sea: Trades and cultural Exchanges based on Archaeological Data	Analyses of Relationships between peoples and cultures in Regard to archaeological Data and contexts as evidence of ideologies, models, artefacts, exchanges, comparing them, if possible, with the ancient sources
Humanities (ancient history, philology, letters, art history)	181	BONFADINI	GIOVANNI	DIPARTIMENTO DI SCIENZE DELL'ANTICHITA'	Variation as expression of relationship between languages and their users and as factor of linguistic change.	It is required that projects describe and explain, in synchronic and/or diachronic perspective, cases of linguistic variation, with reference to languages from ancient to modern times, in their oral and written uses.
Humanities (ancient history, philology, letters, art history)	182	GALLAZZI	CLAUDIO	DIPARTIMENTO DI SCIENZE DELL'ANTICHITA'	Publication, study and digitalization of the papyri of the Milano Vogliano Collection	The project aims to publish the 9th volume of the Papiri Milano Vogliano and to create a web-archive housing high resolution pictures and cards of each published piece of the collection.
Humanities (ancient history, philology, letters, art history)	183	SEGENNI	SIMONETTA	DIPARTIMENTO DI SCIENZE DELL'ANTICHITA'	Periphery and Centre in the Greek and Roman World	The research regards problems concerning the relationships among central power and local communities, cities, federations, provinces in the Greek and Roman World from an institutional, political, economic, and cultural point of view
Humanities (ancient history, philology, letters, art history)	184	ZANETTO	GIUSEPPE	DIPARTIMENTO DI SCIENZE DELL'ANTICHITA'	Philological and literary investigation of Greek and Latin texts	The project covers researches in Greek and Latin philology intended to produce editions, commentaries and interpretations of literary texts
Humanities (ancient history, philology, letters, art history)	185	BOSISIO	PAOLO	DIPARTIMENTO DI STORIA DELLE ARTI, DELLA MUSICA E DELLO SPETTACOLO	Life and organization of the theatrical contest of Northern Italy in the 19th Century.	The research must consist in examination of the theatrical contest of Northern Italy in 19th Century and of any aspect concerning the organization of the performing system, based on unknown archive sources and journalistic literature.
Humanities (ancient history, philology, letters, art history)	186	FERTONANI	CESARE	DIPARTIMENTO DI STORIA DELLE ARTI, DELLA MUSICA E DELLO SPETTACOLO	The construction of sound in the audiovisual domain	This subject aims to study the creative and technological implications shared by the figures (composers, directors, sound designers) involved in the electroacoustic construction, manipulation and control of sound in the audiovisual domain.
Humanities (ancient history, philology, letters, art history)	187	NEGRI	ANTONELLO	DIPARTIMENTO DI STORIA DELLE ARTI, DELLA MUSICA E DELLO SPETTACOLO	Art and criticism in 20th century's Italian magazines	The research project will concern the debate on visual arts both through professional criticism and through texts by artists, satirical and popular magazines.
Humanities (ancient history, philology, letters, art history)	188	BROGI	GIOVANNA	DIPARTIMENTO DI STUDI LINGUISTICI, LETTERE E FILOGICI (EUROPA CENTRO-SETTENTRIONALE E ORIENTALE)	The Russian Language. The Language of the Empire and its relationship to the Languages of Peripheries (18thC)	Linguistic situation in Russia and in peripheries (18th c.). Typology and linguistic strategies in formation of the literary languages. Linguistic variety in cultural centers and singular authors. Linguistic self-perception.



Humanities (ancient history, philology, letters, art history)	189	DI SALVO	MARIA GIOVANNA	DIPARTIMENTO DI STUDI LINGUISTICI, LETTERE RARI E FILOLOGICI (EUROPA CENTRO-SETTENTRIONALE E ORIENTALE)	The culture of Slavia Orthodoxa from 16th to 18th century: Church Slavonic language and literature, their evolution and relation to other cultures.	Continuity/innovation, analysis of single or more texts, new developments in the Slavic Orthodox cultural space, evolution of Church Slavonic, reflections on language, impact of other cultures.
History, Philosophy, Pedagogy, Psychology	190	CANZIANI	GUIDO	DIPARTIMENTO DI FILOSOFIA	Theory and practice of the scientific method in XVIIIth century rationalism	Criteria of truth and criteria of certainty in Spinoza's and Leibniz's thought. Relationship among ontology, ethics and geometrical method in Spinoza. Relationship among logic, mathematics and dynamics in Leibniz.
History, Philosophy, Pedagogy, Psychology	191	GORI/GEUNA	GIOVANNI BATTISTA	DIPARTIMENTO DI FILOSOFIA	Contemporary theories of democracy	Research should examine the recent debates on democracy, and its possible forms, taking into consideration various theories developed in one of the following cultural contexts: a) Anglo-Saxon context; b) French context; c) German context.
History, Philosophy, Pedagogy, Psychology	192	PINOTTI	ANDREA	DIPARTIMENTO DI FILOSOFIA	THE IMAGE BETWEEN PHENOMENOLOGY AND VISUAL ANTHROPOLOGY	The notion of 'image' has become increasingly crucial in the philosophical discourse: the research will have to investigate its status in a phenomenological perspective, outlining possible developments in the domain of visual anthropology.
History, Philosophy, Pedagogy, Psychology	193	SINIGAGLIA	CORRADO	DIPARTIMENTO DI FILOSOFIA	The embodied and enactive roots of social cognition	The project aims at promoting a theoretical model of basic social cognition that allows one to combine the phenomenological analysis of subjective experience with the investigation of the subpersonal mechanisms by cognitive neuroscience.
History, Philosophy, Pedagogy, Psychology	194	SPINICCI	PAOLO	DIPARTIMENTO DI FILOSOFIA	Imagination and Belief	This research is about the relation between imagination and belief. It focuses on imaginative resistance, on the paradox of fiction and on the role played by counterfactual imagination.
History, Philosophy, Pedagogy, Psychology	195	BRAIDA	LODOVICA	DIPARTIMENTO DI SCIENZE DELLA STORIA E DELLA DOCUMENTAZIONE STORICA (MEDIOEVO, ETA' MODERNA, ETA' CONTEMPORANEA)	History of Publishing History. Books and "genres" for new readers	The main concern of this research is the analysis of some editorial genres of wide circulation in Italy between XIXth-XXth. especially focusing on the new groups of readers gradually identified by the publishers.
History, Philosophy, Pedagogy, Psychology	196	BRUTI LIBERATI	LUIGI	DIPARTIMENTO DI SCIENZE DELLA STORIA E DELLA DOCUMENTAZIONE STORICA (MEDIOEVO, ETA' MODERNA, ETA' CONTEMPORANEA)	The Political and Cultural Debate in Post-war Italy. Internal and External Issues.	The project will focus on case-studies of Italian elites in the post-war years confronted with political, cultural and economic challenges in internal and external affairs.
History, Philosophy, Pedagogy, Psychology	197	LAMI	GIULIA MARIA ISABELLA	DIPARTIMENTO DI SCIENZE DELLA STORIA E DELLA DOCUMENTAZIONE STORICA (MEDIOEVO, ETA' MODERNA, ETA' CONTEMPORANEA)	Post-stalinist USSR. Models of Communication between Power and Population (1953-1964)	The project intend to investigate the relationship between the power represented by the Soviet State-Party and the population in the post-stalinist period (1953-1964), analysing the peculiar character of the models of communication.



History, Philosophy, Pedagogy, Psychology	19 8	OCCHIPINTI	ELISA ESTER	DIPARTIMENTO DI SCIENZE DELLA STORIA E DELLA DOCUMENTAZIONE STORICA (MEDIOEVO, ETA' MODERNA, ETA' CONTEMPORANEA)	The institutions of the countryside in the state of the Visconti and Sforza (XIV-XV centuries)	The project focuses on the countryside of Lombardy from the XIVth to the XVth century, with special attention to the seignorial and ducal structures of government as well as to the main nucleus of local power (rural lordships, communities, kinships)
History, Philosophy, Pedagogy, Psychology	19 9	PIZZETTI	SILVIA MARIA	DIPARTIMENTO DI SCIENZE DELLA STORIA E DELLA DOCUMENTAZIONE STORICA (MEDIOEVO, ETA' MODERNA, ETA' CONTEMPORANEA)	The Anglo-French struggle for India: From the Seven Years War to Restoration	During the 18th century the rivalry between France and England was played in the Indian sub continental area, through an expansionistic policy that led European Powers to extend their control over many Indian states, against local principalities.
History, Philosophy, Pedagogy, Psychology	20 0	LA TORRE	ANTONIO	DIPARTIMENTO DI SCIENZE DELLO SPORT, NUTRIZIONE E SALUTE	Heart rate- and blood pressure-variability as a tool in sport performance monitoring	The effect of training on the autonomic nervous system are poorly defined. Heart rate- and blood pressure-variability can provide useful information about the overall functional adaptations in response to the different training loads
History, Philosophy, Pedagogy, Psychology	20 1	MICHIELON	GIOVANNI	DIPARTIMENTO DI SCIENZE DELLO SPORT, NUTRIZIONE E SALUTE	Physical activity and training in water	The aim of this research is to assess the effects of aquatic training programmes on visceral fat, body composition and muscle performance.
History, Philosophy, Pedagogy, Psychology	20 2	ANTONIOLI	MAURIZIO	DIPARTIMENTO DI STORIA DELLA SOCIETA' E DELLE ISTITUZIONI	The representation of justice at the origin of republican Italy (1943-1948)	Analysis of episodes of turning killing into a show as an extreme act of justice, following the perspective of the elaboration of the memory of the victims of civil war, the one of purging and the one of the debate on capital punishment.
History, Philosophy, Pedagogy, Psychology	20 3	AUDENINO	PATRIZIA	DIPARTIMENTO DI STORIA DELLA SOCIETA' E DELLE ISTITUZIONI	Borders, conflicts and national identities in the 20th century Europe	The research will concern the nationalistic policies applied on boundary territories of the 20th century Europe. Starting from the case study of South Tyrol, it will adopt a comparative approach, based on archival documents, literature and memories
History, Philosophy, Pedagogy, Psychology	20 4	CHIARINI	ROBERTO	DIPARTIMENTO DI STORIA DELLA SOCIETA' E DELLE ISTITUZIONI	Political and military aspects of the relationships between the Allies and the European Resistance	The relationships between the Allies and the European Resistance in World War II, in a comparative prospective and paying attention to the records recently released by the American and British archives
Economics and statistics	20 5	BARBA NAVARETTI	GIORGIO	DIPARTIMENTO DI SCIENZE ECONOMICHE, AZIENDALI E STATISTICHE	Sustainable Growth and Globalization	The project aims at studying the internationalization processes of firms (special focus on Europe), the aspects of the demographic, ecological and economic transition, and the problems of the financial sustainability of the industrialized countries.
Economics and statistics	20 6	CHECCHI	DANIELE	DIPARTIMENTO DI SCIENZE ECONOMICHE, AZIENDALI E STATISTICHE	Individual behaviour and social outcomes: rationality, markets and institutions	We welcome submissions of theoretical or empirical (econometric, experimental) projects in applied microeconomics, including but not limited to: labour markets, education, industrial organization, behavioural economics, social preferences



Economics and statistics	207	FLORIO	MASSIMO	DIPARTIMENTO DI SCIENZE ECONOMICHE, AZIENDALI E STATISTICHE	The evaluation of the performance of public services	The project includes: definition, analysis and design of evaluation methods for the public provision of services of general interest and related reforms in the EU in the past years.
Economics and statistics	208	LA TORRE	DAVIDE	DIPARTIMENTO DI SCIENZE ECONOMICHE, AZIENDALI E STATISTICHE	Random Dynamical Systems in Economics and Finance: mathematical and statistical analysis	The research activity will focus on one or more of the following topics: random dynamical systems; fractals and inverse problems; multi-criteria optimal control theory; inference for dynamical systems; statistics for finance.
Economics and statistics	209	PILOTTI	LUCIANO	DIPARTIMENTO DI SCIENZE ECONOMICHE, AZIENDALI E STATISTICHE	Knowledge economy and new business models of SME's	The project aims at analyzing SME'S patterns of growth of exploitation and exploration with an evaluation of knowledge transfer networks and quality of intellectual capital and patents adoption.
Political Sciences and Sociology	210	REGINI	MARINO	DIPARTIMENTO DI STUDI DEL LAVORO E DEL WELFARE	The relationships between higher education systems and economic actors in Europe.	What is the impact of economic actors on the recent changes in European higher education? What is the role of public policies and the Bologna Process? How do relationships change across countries, disciplines and types of institutions?
Political Sciences and Sociology	211	AMBROSINI	MAURIZIO	DIPARTIMENTO DI STUDI SOCIALI E POLITICI	Migrations and social transformations. Redefining citizenship, cultural identities, ethnic relations	The research focus is on some issues linked to increasing migrations and the shaping of ethnic minorities: it explores the processes transforming citizenship, urban spaces, cultural identities and ethnic relations.
Political Sciences and Sociology	212	GIULIANI	MARCO	DIPARTIMENTO DI STUDI SOCIALI E POLITICI	Democracy, political regimes and global politics	Are democracies changing, or are the categories for the interpretation of their transformation and performance in crisis? The research project, qualitative or quantitative, should be designed around this topic.
Political Sciences and Sociology	213	LEONINI	LUISA MARIA	DIPARTIMENTO DI STUDI SOCIALI E POLITICI	Consumer cultures, new lifestyles and new social identities	Consumption and media are key cultural formations. Via a focus on consumer practices and cultural representation of consumerism and material culture, contemporary sociology is delineating new forms of stratification, distinction, identity formation
Political Sciences and Sociology	214	MARTELLI	PAOLO	DIPARTIMENTO DI STUDI SOCIALI E POLITICI	Political institutions, political culture, party competition and electoral behaviour	Comparative analysis of the role of social and religious cleavages on the processes of modernization, the relations among political institutions, and party competition
Political Sciences and Sociology	215	ZUCCHINI	FRANCESCO	DIPARTIMENTO DI STUDI SOCIALI E POLITICI	Actors, policy processes and multilevel governance	Study of how interactions between public and private actors, and institutions shape the policy change and the accountability. The research may follow different paradigms and adopt a qualitative or a quantitative approach.



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