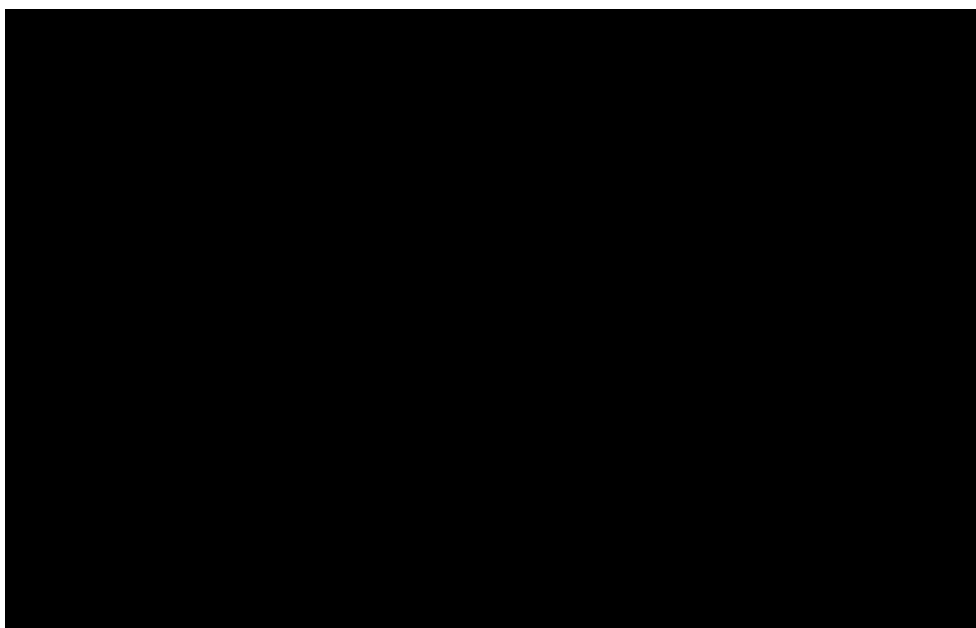


# CURRICULUM VITAE ET STUDIORUM

For

**Andrea Armirotti**



## **Current Position and roles:**

**Istituto Italiano di Tecnologia, Genova, Facility Coordinator**

**Analytical Chemistry Facility**

- *Supervision and coordination of IIT Mass Spec and NMR Labs*
- *Responsible for all DMPK and OMICS activities*
- *Team Leader, Analytical Chemistry (4 resident scientists, 2 PostDocs)*
- *Independent research activity (cystic fibrosis, nanomaterials and life, neurodegeneration)*

## **Education:**

- **Bachelor in Sciences** obtained at the Liceo Ginnasio XVI Febbraio in Aosta
- **Doctoral degree in Chemistry (Laurea)** obtained at the University of Genova.  
Experimental Thesis: "GC-MS analysis of N-linked oligosaccharides"
- **Professional Certificate for Chemists** obtained at the University of Genova

- **Ph.D. in Biochemistry**, obtained from the University of Genova.

Ph.D Thesis: "*Extraction and chemical characterization of taxanes from in vitro cell cultures*"

### **Past Professional Activity:**

- 2001/ 2002 **Department of Experimental Medicine, Genova University- Internship**

Structural investigation of unusual glycans involved in LAD II disease

- 2003 / 2006 **Center of Excellence for Biomedical Research, Genova - Fellow-Ph.D.**

Setup and validation of analytical methods for detection of paclitaxel precursors in shells and leaves of *Taxus Brevifolia* and *Corylus Avellana*.

- 2006 / 2010 **Center of Excellence for Biomedical Research and Advanced Biotechnology Center, Genova – PostDoc**

Post doctorate research activity on the structural and functional characterization of silicatein from *Petrosia Ficiformis*. (EU research project NMP4-CT-2006-031541).

- 2010 (March)-2010 (October) **National Institute for Cancer Research, Genova - Researcher**

Discovery of new biomarkers for breast cancer (BC) staging and aggressiveness.

- October 2010 to December 2017 **Istituto Italiano di Tecnologia, Drug Discovery and Development Department - Technologist**

DMPK profiling of NCEs: setup and validation of bioanalytical methods (metabolite identification, stability studies, pharmacokinetics); *omics* analytical discovery activities (metabolomics, lipidomics, proteomics); tutoring and supervision of Ph.D. students and resident staff.

### **Expertise and Skills:**

- Deep knowledge of all the DMPK activities required for the drug discovery process: QC and physical chemistry characterization, stability studies, metabolite ID, plasma protein binding assessment, permeability studies, pharmacokinetic profiling
- Setup and validation of analytical assays following FDA guidelines.
- LC-MS/MS, GC-MS and GC-MS/MS, Ion Mobility-MS, MALDI-MS and chromatographic techniques (HPLC,UPLC nano-LC, including multidimensional and orthogonal separations)
- Metabolomics, lipidomics and proteomics analytical research,
- Basic knowledge of NMR spectroscopy
- Advanced data analysis skills for both uni- and multivariate statistics
- Bioinformatics tools for gene enrichment analysis, protein networking and interactions
- Team building
- Research projects management

### **Main research interests:**

- Development of new, innovative analytical tools to address biochemical issues.
- Application of omics sciences to the clinical practice, with a particular focus on lipidomics
- Biomarker discovery for neurodegenerative disorders
- Use of expression proteomics to investigate cell biology and protein trafficking

### **Previous and current cooperation partners (main).**

Internal collaborations with IIT Principal Investigators are omitted

- 1) Prof. Reinhold Schmidt, Medical University of Graz, Austria
- 2) Prof. Kathryn Lilley, Department of Biochemistry, Cambridge University, United Kingdom
- 3) Prof. Babette Fuss, Virginia Commonwealth University, USA
- 4) Prof. Bengt Fadeel, Unit of Molecular Toxicology, Head, Karolinska Institute, Stockholm, Sweden
- 5) Prof. Ester Vázquez Fernández-Pacheco, Instituto de Investigación Científica Aplicada (IRICA) – Director, Universidad de Castilla La Mancha, Ciudad Real, Spain
- 6) Dr. Peter Wick, Particles-Biology Interactions Lab – Director, EMPA, Swiss Federal Institute for Materials and Technology, St. Gallen, Switzerland
- 7) Prof. Alberto Bianco, Nanomatériaux 2D et carbonés multi-fonctionnels à visée thérapeutique, Director, Institut de Biologie Moléculaire et Cellulaire, Strasbourg, France
- 8) Prof. Maurizio Prato, Department of Chemical and Pharmaceutical Sciences, Università di Trieste, Italy
- 9) Prof. Fabio Benfenati, NSYN Department Director, Ospedale San Martino, Genova, Italy
- 10) Dr. Carlo Castellani, Cystic Fibrosis Center - Director, Ospedale Giannina Gaslini, Genova, Italy
- 11) Prof. Gian Maria Fabrizi, Department of Neuroscience, University of Verona, Verona, Italy
- 12) Prof. Diego di Bernardo, Genomic Medicine Program Coordinator, TIGEM, Napoli, Italy
- 13) Prof. Massimo Aureli, Department of Medical Biotechnology and Translational Medicine, University of Milan, Milano, Italy.
- 14) Prof. Giancarlo Spalletta, Santa Lucia Neurological Hospital, Roma, Italy
- 15) Prof. Andrea Cavalli, CECAM (Centre Européen de Calcul Atomique et Moléculaire), Lausanne, Switzerland

### **Complete list of acquired third-party funding**

Total amount raised: **631000** euro (2019 – current)

## **Competitive Research Grants:**

### **As Principal Investigator**

- Project FFC#1-2023 “*Investigation of an off-target effect of Kaftrio: the modulation of de-novo sphingolipid synthesis*” from Fondazione Italiana Fibrosi Cistica, Sep. 2023 - Aug. 2024, granted with **70000 €**.
- Project FFC#1-2021 “Multiomics exploration of the CF primary bronchial epithelium lipidome and its role on CFTR rescue” from Fondazione Italiana Fibrosi Cistica, Sep. 2021 - Aug. 2023, granted with **130000 €**.
- EU Graphene Flagship Project Horizon 2020 Research and Innovation Programme, WP4: Health and Environment, Core 3 Apr. 2020 – March 2023. Role: PI in Task 4.4.1 “Fundamental research on neurotoxicity”, granted with **137000 €**.
- Project FFC#1-2019 “Proteomics of F508del-CFTR cells to identify new pharmacological targets for Cystic fibrosis- Extension” from Fondazione Italiana Fibrosi Cistica, Sep. 2019 - Aug. 2020, granted with **55000 €**.
- Project FFC#1-2018 “Proteomics of F508del-CFTR cells to identify new pharmacological targets for Cystic fibrosis” from Fondazione Italiana Fibrosi Cistica, Sep. 2018 - Aug. 2019, granted with **44000 €**.

### **As Partner or Collaborator**

- AIRC Project 21403 (PI: Prof. Nicola Baldini) “Altered lipid metabolism as a stress reaction to acid tumour microenvironment and a driver of metastasis in osteosarcoma” – Supported with **54200 €**
- EU research project NMP4-CT-2006-031541 “Biom mineralization for lithography and microelectronics (BIO-LITHO)”. Role: Collaborator. Activity: Characterization of marine proteins useful for biom mineralization processes
- Project 2015/R/17, Italian Multiple Sclerosis Society, PI: Dr. Lucilla Nobbio. Role: Partner. Activity: Identification and quantification of lipid biomarkers to monitor demyelination and remyelination processes
- EU Graphene Flagship Project Horizon 2020 Research and Innovation Programme (Grant agreement no. 785219), WP4: Health and Environment. Role Partner, responsible for Task 4.7, “Metabolomics and proteomics of graphene interactions with biological systems”

### Analytical service activities

- 2020:  
3200 € from Crispr Therapeutics: endocannabinoid profiling in a rodent model  
23000 € from University of Rome: lipidomic profiling for dietary intake of a food supplement
- 2021  
2600 € from University of Genova: tissue lipidomic profiling of rodents model
- 2022  
900 €, from ASG Superconductors: NMR characterization of boron doped materials  
22000 €, from University of Tartu, Estonia: investigation of proriasis biomarkers.  
3800 € from Crispr Therapeutics: endocannabinoid profiling in a rodent model  
9000 €, from BIOCC, Tartu Estonia: milk lipidomic profiling
- 2023 on  
31000 € IRCCS Gaslini Lipidomics of DBS from newborn screening  
31000 € IAMA Therapeutics DMPK services contract 2024-2024

### Clinical Research

Dr. Armirotti is currently coordinating a multicentric clinical study “NAPE as plasma biomarkers of Alzheimer’s disease”. The study was approved by the Regional Ethical Committee (S. Martino Hospital, Liguria) with protocol 065/209 approved Oct 7, 2019.

### Scientific Talks and oral communications (short selection- 10 communications)

- 1) *“How to discriminate between leucine and isoleucine in tryptic peptides”* Italian Proteomic Association 2<sup>nd</sup> Annual National Conference, Aci Trezza (Italy), June 2007
- 2) *“Mass and tandem mass characterization of silicatein from marine sponge petrosia ficiformis”* National Biotechnology Congress, Perugia (Italy), September 2008
- 3) *“Beta-Lactones Inhibit N-acyl ethanolamine Acid Amidase by S-Acylation of the Catalytic N-Terminal Cysteine”* 11<sup>th</sup> HUPO world congress, Boston (USA), September 2012
- 4) *“Peroxide-dependent MGL sulfenylation regulates 2-AG mediated endocannabinoid signaling in brain neurons”* EuPA, IX Annual Congress, Milano (Italy), June 2015
- 5) *“Metabolomics in neuroscience: Old tools for new models and new tools for old models”* International Conference on Metabolomics, Osaka, Japan, May 2016
- 6) *“Lipidomics Approach to Understand TMT-Induced Neurotoxicity”* The Toxicology Forum, Winter Meeting, Washington DC, USA, February 2017
- 7) *“Single Neuron Lipidomics Made Real”* Advances in NMR and MS based Metabolomics, Padova (Italy), November 2017

- 8) *“Ion Mobility for Untargeted Lipidomics”* Invited lecture at Summer school in Nutritional Metabolomics, Pula, Cagliari (Italy), October 2018.
- 9) *“Membrane lipidome and CFTR rescue”*. Invited Talk at European Cystic Fibrosis Society meeting, June 2021
- 10) *“Understanding nano-bio interactions through the biomolecular corona: the role of mass spectrometry”*. Keynote speech at 3rd IBERO Conference on Mass Spectrometry Rio de Janeiro, December 2022

### **Teaching activities**

- Seminar on bioanalysis and omics data at ITS Biotecnologie Piemonte Summer School (Pragelato, Italy, July 2023)
- Lesson on DMPK and bioanalysis for Ph.D. course in Drug discovery – University of Genova (Genova, May 2023)
- Lesson on the exploration of the biochemical space at ITS Biotecnologie Piemonte Summer School (Gressoney, Italy, July 2022)
- Lesson on DMPK and bioanalysis for Ph.D. course in Drug discovery – University of Genova (Genova, May 2022)
- Course on Analytical Chemistry: NMR and Mass Spec for ITS Biotecnologie Piemonte (virtual, may 2021)
- Lecture “Exploring the complexity of the biological chemical space” Biochemistry and Molecular Biology Ph.D. course, Università di Siena, Italy (virtual, 2021)
- Lesson on lipidomics and proteomics, University of Genova, School for advanced studies (ISSUGE) (Genova, March 2019)

### **Mentoring (current and former Ph.D. students and postdoc)**

- Former Supervisor of **Clarissa Braccia**, Ph.D student at Università di Genova. She now works as researcher at San Raffaele Hospital, Milano.
- Ph.D. supervisor and mentor of Dr. **Abdul Basit Shaik**, now Senior Fellow at University of Washington, School of Pharmacy Seattle, USA.
- Ph.D. supervisor and mentor of Dr. **Zeeshan Hamid**, now Post Doc at Wake Forest School of Medicine, North Carolina, USA
- Ph.D. tutor of Dr. **Federica Vannini**, graduated March 2019 from S. Anna School, Pisa
- Supervisor of PostDoc activity of **Sion Blanco** (2018-2019). She now works as resident scientist at OWL Metabolomics.

## Patents

- Application: PCT/EP2022/069466  
**Armirotti A.IIT**, Ottonello G.IIT, Spalletta G., Franceschi P., Schmidt R. BIOMARKERS FOR ALZHEIMER'S DISEASE - *Prosecution*
- Application: EP 18803353.4  
**Armirotti A.IIT**, Reggiani A.IIT, Spalletta G. METHOD FOR ESTABLISHING THE PRESENCE AND PROGRESSION OF NEURODEGENERATIVE DISEASE - *Prosecution*
- Patent **EP1739184** "Method for production of taxol and/or taxanes from cultures of hazel cells". Inventors: Miele M., Armirotti A., Balbi A., Bestoso F., Damonte G., Mazzei M.

## Publication Track

I authored **140** papers in international, peer-reviewed journals, **23** as Corresponding Author and **4** as First Author. Based on SCOPUS, my work has received **4279** citations and my current H-index is **37** (as of Jan 6, 2023). Please find the link to my ORCID ID: <https://orcid.org/0000-0002-3766-8755>

## Full List of Publications:

N	Authors	Title	Year	Source title	Authorship	DOI
1	Lin, Hazel; Bürki-Thurnherr, Tina; Kaur, Jasreen; Wick, Peter; Pelin, Marco; Tubaro, Aurelia; Candotto Carniel, Fabio; Tretiach, Mauro; Flahaut, Emmanuel; Iglesias, Daniel; Vázquez, Ester; Cellot, Giada; Ballerini, Laura; Castagnola, Valentina; Benfenati, Fabio; Armirotti, Andrea; Sallustrau, Antoine; Taran, Frederic; Keck, Mathilde; Bussy, Cyrill; Vranic, Sandra; Kostarelos, Kostas; Connolly, Mona; Navas, José Maria; Mouchet, Florence; Gauthier, Laury; Baker, James; Suarez-Merino, Blanca; Kanerva, Tomi; Prato, Maurizio; Fadeel, Bengt; Bianco, Alberto	Environmental and Health Impacts of Graphene and other Two-Dimensional Materials: A Graphene Flagship Perspective	2024	ACS Nano	Co-author	<i>in press</i>
2	Boselli L, Castagnola V, Armirotti A, Benfenati F, Pompa PP.	Biomolecular Corona of Gold Nanoparticles: The Urgent Need for Strong Roots to Grow Strong Branches.	2023	Small	Co-author	10.1002/smll.202306474
3	Basagni F, Ortega JA, Bertozzi SM, Armirotti A, Summa M, Bertorelli R, Bartolini M, Mellor IR, Bedeschi M, Bottegoni G, Lembo V, Minarini A, Cavalli A, Rosini M.	Galantamine-memantine hybrids for Alzheimer's disease: The influence of linker rigidity in biological activity and pharmacokinetic properties.	2023	Eur J Med Chem	Co-author	10.1016/j.ejmech.2023.115803

4	Tarricone G, Castagnola V, Mastronardi V, Corsi L, Debellis D, Ciobanu DZ, Armirotti A, Benfenati F, Boselli L, Pompa PP.	Catalytic Bioswitch of Platinum Nanozymes: Mechanistic Insights of Reactive Oxygen Species Scavenging in the Neurovascular Unit	2023	Nano Letters	Co-author	10.1021/acs.nanolett.3c01479.
5	Liesi N., Tomati V., Capurro V., Loberto N., Garcia-Aloy M., Franceschi P., Aureli M., Pedemonte N., Armirotti A.	The combination of elexacaftor/tezacaftor/ivacaftor (ETI) modulates the de novo synthetic pathway of ceramides in a genotype-independent manner	2023	Journal of Cystic Fibrosis	Last & Corresponding PI	10.1016/j.jcf.2023.04.012
6	Palange A.L., Mascolo D.D., Ferreira M., Gawne P.J., Spanò R., Felici A., Bono L., Moore T.L., Salerno M., Armirotti A., Decuzzi P.	Boosting the Potential of Chemotherapy in Advanced Breast Cancer Lung Metastasis via Micro-Combinatorial Hydrogel Particles	2023	Advanced Science	Co-author	10.1002/adv.202205223
7	Tarricone G., Castagnola V., Mastronardi V., Corsi L., Debellis D., Ciobanu D.Z., Armirotti A., Benfenati F., Boselli L., Pompa P.P.	Catalytic Bioswitch of Platinum Nanozymes: Mechanistic Insights of Reactive Oxygen Species Scavenging in the Neurovascular Unit	2023	Nano Letters	Co-author	10.1021/acs.nanolett.3c01479
8	Munafò F., Nigro M., Brindani N., Manigrasso J., Geronimo I., Ottonello G., Armirotti A., De Vivo M.	Computer-aided identification, synthesis, and biological evaluation of DNA polymerase $\eta$ inhibitors for the treatment of cancer	2023	European Journal of Medicinal Chemistry	Co-author	10.1016/j.ejmech.2022.115044
9	Brindani N., Munafò F., Menichetti A., Donati E., Nigro M., Ottonello G., Armirotti A., De Vivo M.	Design, synthesis, docking, and biochemical characterization of non-nucleoside SARS-CoV-2 RdRp inhibitors	2023	Bioorganic and Medicinal Chemistry	Co-author	10.1016/j.bmc.2023.117179
10	Brindani N., Vuong L.M., Acquistapace I.M., La Serra M.A., Ortega J.A., Veronesi M., Bertozzi S.M., Summa M., Giroto S., Bertorelli R., Armirotti A., Ganesan A.K., De Vivo M.	Design, Synthesis, In Vitro and In Vivo Characterization of CDC42 GTPase Interaction Inhibitors for the Treatment of Cancer	2023	Journal of Medicinal Chemistry	Co-author	10.1021/acs.jmedchem.3c00276
11	Shirzad Kebria M.R., Bono L., Khoshhal Salestan S., Armirotti A., Carzino R., Athanassiou A., Fragouli D.	Efficient removal of perfluorobutanesulfonic acid from water through a chitosan/polyethyleneimine xerogel	2023	Chemical Engineering Journal	Co-author	10.1016/j.cej.2023.143236
12	Castagnola V., Deleye L., Podestà A., Jaho E., Loiacono F., Debellis D., Trevisani M., Ciobanu D.Z., Armirotti A., Pisani F., Flahaut E., Vazquez E., Bramini M., Cesca F., Benfenati F.	Interactions of Graphene Oxide and Few-Layer Graphene with the Blood-Brain Barrier	2023	Nano Letters	Co-author	10.1021/acs.nanolett.3c00377
13	Tolardo V., Romaldini A., Fumagalli F., Armirotti A., Veronesi M., Magrì D., Sabella S., Athanassiou A., Fragouli D.	Polycarbonate nanoplastics and the in vitro assessment of their toxicological impact on liver functionality	2023	Environmental Science: Nano	Co-author	10.1039/d2en00963c



14	Pepe G., Capocci L., Marracino F., Realini N., Lenzi P., Martinello K., Bovier T.F., Bichell T.J., Scarselli P., Di Cicco C., Bowman A.B., Digilio F.A., Fucile S., Fornai F., Armirotti A., Parlato R., Di Pardo A., Maglione V.	Treatment with THI, an inhibitor of sphingosine-1-phosphate lyase, modulates glycosphingolipid metabolism and results therapeutically effective in experimental models of Huntington's disease	2023	Molecular Therapy	Co-author	10.1016/j.ymthe.2022.09.004
15	Braccia C., Christopher J.A., Crook O.M., Breckels L.M., Queiroz R.M.L., Liessi N., Tomati V., Capurro V., Bandiera T., Baldassari S., Pedemonte N., Lilley K.S., Armirotti A.	CFTR Rescue by Lumacaftor (VX-809) Induces an Extensive Reorganization of Mitochondria in the Cystic Fibrosis Bronchial Epithelium	2022	Cells	Last & Corresponding PI	10.3390/cells11121938
16	Tuccinardi D., Di Mauro A., Lattanzi G., Rossini G., Monte L., Beato I., Spiezia C., Bravo M., Watanabe M., Soare A., Kyanvash S., Armirotti A., Bertozzi S.M., Gastaldelli A., Pedone C., Khazrai Y.M., Pozzilli P., Manfrini S.	An extra virgin olive oil-enriched chocolate spread positively modulates insulin-resistance markers compared with a palm oil-enriched one in healthy young adults: A double-blind, cross-over, randomised controlled trial	2022	Diabetes/Metabolism Research and Reviews	Co-author	10.1002/dmrr.3492
17	Marasca C., Mandrioli R., Sardella R., Vovk T., Armirotti A., Cavalli A., Serretti A., Protti M., Mercolini L.	Dried Volumetric Microsampling Approaches for the Therapeutic Drug Monitoring of Psychiatric Patients Undergoing Clozapine Treatment	2022	Frontiers in Psychiatry	Co-author	10.3389/fpsyt.2022.794609
18	Munafò F., Donati E., Brindani N., Ottonello G., Armirotti A., De Vivo M.	Quercetin and luteolin are single-digit micromolar inhibitors of the SARS-CoV-2 RNA-dependent RNA polymerase	2022	Scientific Reports	Co-author	10.1038/s41598-022-14664-2
19	Contardi M., Ayyoub A.M.M., Summa M., Kossyvakı D., Fadda M., Liessi N., Armirotti A., Fragouli D., Bertorelli R., Athanassiou A.	Self-Adhesive and Antioxidant Poly(vinylpyrrolidone)/Alginate-Based Bilayer Films Loaded with Malva sylvestris Extracts as Potential Skin Dressings	2022	ACS Applied Bio Materials	Co-author	10.1021/acsbm.2c00254
20	Jahid S., Ortega J.A., Vuong L.M., Acquistapace I.M., Hachey S.J., Flesher J.L., La Serra M.A., Brindani N., La Sala G., Manigrasso J., Arencibia J.M., Bertozzi S.M., Summa M., Bertorelli R., Armirotti A., Jin R., Liu Z., Chen C.-F., Edwards R., Hughes C.C.W., De Vivo M., Ganesan A.K.	Structure-based design of CDC42 effector interaction inhibitors for the treatment of cancer	2022	Cell Reports	Co-author	10.1016/j.celrep.2022.110641
21	Schipani F., Manerba M., Marotta R., Poppi L., Gennari A., Rinaldi F., Armirotti A., Farabegoli F., Roberti M., Di Stefano G., Rocchia W., Girotto S., Tirelli N., Cavalli A.	The Mechanistic Understanding of RAD51 Defibrillation: A Critical Step in BRCA2-Mediated DNA Repair by Homologous Recombination	2022	International Journal of Molecular Sciences	Co-author	10.3390/ijms23158338

22	Felici A., Di Mascolo D., Ferreira M., Lauciello S., Bono L., Armirotti A., Pitchaimani A., Palange A.L., Decuzzi P.	Vascular-confined multi-passage discoidal nanoconstructs for the low-dose docetaxel inhibition of triple-negative breast cancer growth	2022	Nano Research	Co-author	10.1007/s12274-021-3507-8
23	Trojanowska D.J., Suarato G., Braccia C., Armirotti A., Fiorentini F., Athanassiou A., Perotto G.	Wool Keratin Nanoparticle-Based Micropatterns for Cellular Guidance Applications	2022	ACS Applied Nano Materials	Co-author	10.1021/acsnm.2c03116
24	Lunghi G., Carsana E.V., Loberto N., Cioccarelli L., Prioni S., Mauri L., Bassi R., Duga S., Straniero L., Asselta R., Soldà G., Di Fonzo A., Frattini E., Magni M., Liessi N., Armirotti A., Ferrari E., Samarani M., Aureli M.	$\beta$ -Glucocerebrosidase Deficiency Activates an Aberrant Lysosome-Plasma Membrane Axis Responsible for the Onset of Neurodegeneration	2022	Cells	Co-author	10.3390/cells11152343
25	Liessi N., Maragliano L., Castagnola V., Bramini M., Benfenati F., Armirotti A.	Isobaric Labeling Proteomics Allows a High-Throughput Investigation of Protein Corona Orientation	2021	Analytical Chemistry	Last & Corresponding PI	10.1021/acs.analchem.0c03134
26	Braccia C., Liessi N., Armirotti A.	Quantification of Changes in Protein Expression Using SWATH Proteomics	2021	Methods in Molecular Biology	Last & Corresponding PI	10.1007/978-1-0716-1641-3_5
27	Braccia C., Castagnola V., Vázquez E., González V.J., Loiacono F., Benfenati F., Armirotti A.	The lipid composition of few layers graphene and graphene oxide biomolecular corona	2021	Carbon	Last & Corresponding PI	10.1016/j.carbon.2021.09.052
28	Marasca C., Arana M.E.B., Protti M., Cavalli A., Mercolini L., Armirotti A.	Volumetric absorptive microsampling of blood for untargeted lipidomics	2021	Molecules	Last & Corresponding PI	10.3390/molecules26020262
29	Antinori M.E., Contardi M., Suarato G., Armirotti A., Bertorelli R., Mancini G., Debellis D., Athanassiou A.	Advanced mycelium materials as potential self-growing biomedical scaffolds	2021	Scientific Reports	Co-author	10.1038/s41598-021-91572-x
30	Di Mascolo D., Palange A.L., Primavera R., Macchi F., Catelani T., Piccardi F., Spanò R., Ferreira M., Marotta R., Armirotti A., Gallotti A.L., Galli R., Wilson C., Grant G.A., Decuzzi P.	Conformable hierarchically engineered polymeric micromeshes enabling combinatorial therapies in brain tumours	2021	Nature Nanotechnology	Co-author	10.1038/s41565-021-00879-3
31	Borgogno M., Savardi A., Manigrasso J., Turci A., Portioli C., Ottonello G., Bertozzi S.M., Armirotti A., Contestabile A., Cancedda L., De Vivo M.	Design, Synthesis, In Vitro and In Vivo Characterization of Selective NKCC1 Inhibitors for the Treatment of Core Symptoms in down Syndrome	2021	Journal of Medicinal Chemistry	Co-author	10.1021/acs.jmedchem.1c00603

32	Di Fruscia P., Carbone A., Bottegoni G., Berti F., Giacomina F., Ponzano S., Pagliuca C., Fiasella A., Pizzirani D., Ortega J.A., Nuzzi A., Tarozzo G., Mengatto L., Giampà R., Penna I., Russo D., Romeo E., Summa M., Bertorelli R., Armirotti A., Bertozzi S.M., Reggiani A., Bandiera T., Bertozzi F.	Discovery and SAR Evolution of Pyrazole Azabicyclo[3.2.1]octane Sulfonamides as a Novel Class of Non-Covalent N-Acylethanolamine-Hydrolyzing Acid Amidase (NAAA) Inhibitors for Oral Administration	2021	Journal of Medicinal Chemistry	Co-author	10.1021/acs.jmedchem.1c00575
33	Cortini M., Armirotti A., Columbaro M., Longo D.L., Di Pompo G., Cannas E., Maresca A., Errani C., Longhi A., Righi A., Carelli V., Baldini N., Avnet S.	Exploring metabolic adaptations to the acidic microenvironment of osteosarcoma cells unveils sphingosine 1-phosphate as a valuable therapeutic target	2021	Cancers	Co-author	10.3390/cancers13020311
34	Barone M., Rampelli S., Biagi E., Bertozzi S.M., Falchi F., Cavalli A., Armirotti A., Brigidi P., Turrone S., Candela M.	Searching for New Microbiome-Targeted Therapeutics through a Drug Repurposing Approach	2021	Journal of Medicinal Chemistry	Co-author	10.1021/acs.jmedchem.1c01333
35	Tocchetti A., Iorio M., Hamid Z., Armirotti A., Reggiani A., Donadio S.	Understanding the mechanism of action of nai-112, a lanthipeptide with potent antinociceptive activity	2021	Molecules	Co-author	10.3390/molecules26226764
36	Liessi N., Pesce E., Braccia C., Bertozzi S.M., Giraudo A., Bandiera T., Pedemonte N., Armirotti A.	Distinctive lipid signatures of bronchial epithelial cells associated with cystic fibrosis drugs, including Trikafta	2020	JCI Insight	Last & Corresponding PI	10.1172/jci.insight.138722
37	Blanco M.E., Mayo O.B., Bandiera T., Tonelli D.D.P., Armirotti A.	LC-MS/MS analysis of twelve neurotransmitters and amino acids in mouse cerebrospinal fluid	2020	Journal of Neuroscience Methods	Last & Corresponding PI	10.1016/j.jneumeth.2020.108760
38	Hamid Z., Armirotti A.	Traveling Wave Ion Mobility-Mass Spectrometry to Enhance the Detection of Low Abundance Features in Untargeted Lipidomics	2020	Methods in Molecular Biology	Last & Corresponding PI	10.1007/978-1-0716-0030-6_6
39	Liessi N., Pedemonte N., Armirotti A., Braccia C.	Proteomics and metabolomics for cystic fibrosis research	2020	International Journal of Molecular Sciences	Corresponding PI	10.3390/ijms21155439
40	Haaranen M., Scuppa G., Tambalo S., Järvi V., Bertozzi S.M., Armirotti A., Sommer W.H., Bifone A., Hyttiä P.	Anterior insula stimulation suppresses appetitive behavior while inducing forebrain activation in alcohol-preferring rats	2020	Translational Psychiatry	Co-author	10.1038/s41398-020-0833-7
41	Quilez-Molina A.I., Heredia-Guerrero J.A., Armirotti A., Paul U.C., Athanassiou A., Bayer I.S.	Comparison of physicochemical, mechanical and antioxidant properties of polyvinyl alcohol films containing green tea leaves waste extracts and discarded balsamic vinegar	2020	Food Packaging and Shelf Life	Co-author	10.1016/j.foodpack.2019.100445
42	Barca-Mayo O., Boender A.J., Armirotti A., De Pietri Tonelli D.	Deletion of astrocytic BMAL1 results in metabolic imbalance and shorter lifespan in mice	2020	GLIA	Co-author	10.1002/glia.23764

43	Caputo S., Di Martino S., Cilibrasi V., Tardia P., Mazzonna M., Russo D., Penna I., Summa M., Bertozzi S.M., Realini N., Margaroli N., Migliore M., Ottonello G., Liu M., Lansbury P., Armirotti A., Bertorelli R., Ray S.S., Skerlj R., Scarpelli R.	Design, Synthesis, and Biological Evaluation of a Series of Oxazolone Carboxamides as a Novel Class of Acid Ceramidase Inhibitors	2020	Journal of Medicinal Chemistry	Co-author	10.1021/acs.jmedchem.0c01561
44	Arencibia J.M., Brindani N., Franco-Ulloa S., Nigro M., Kuriappan J.A., Ottonello G., Bertozzi S.M., Summa M., Giroto S., Bertorelli R., Armirotti A., De Vivo M.	Design, Synthesis, Dynamic Docking, Biochemical Characterization, and in Vivo Pharmacokinetics Studies of Novel Topoisomerase II Poisons with Promising Antiproliferative Activity	2020	Journal of Medicinal Chemistry	Co-author	10.1021/acs.jmedchem.9b01760
45	Savardi A., Borgogno M., Narducci R., La Sala G., Ortega J.A., Summa M., Armirotti A., Bertorelli R., Contestabile A., De Vivo M., Cancedda L.	Discovery of a Small Molecule Drug Candidate for Selective NKCC1 Inhibition in Brain Disorders	2020	Chem	Co-author	10.1016/j.chempr.2020.06.017
46	Visigalli D., Capodivento G., Basit A., Fernández R., Hamid Z., Pencová B., Gemelli C., Marubbi D., Pastorino C., Luoma A.M., Riekel C., Kirschner D.A., Schenone A., Fernández J.A., Armirotti A., Nobbio L.	Exploiting Sphingo- and Glycerophospholipid Impairment to Select Effective Drugs and Biomarkers for CMT1A	2020	Frontiers in Neurology	Co-author	10.3389/fneur.2020.00903
47	Gambardella G., Staiano L., Moretti M.N., De Cegli R., Fagnocchi L., Di Tullio G., Polletti S., Braccia C., Armirotti A., Zippo A., Ballabio A., De Matteis M.A., Di Bernardo D.	GADD34 is a modulator of autophagy during starvation	2020	Science Advances	Co-author	10.1126/sciadv.abb0205
48	Costantino F., Armirotti A., Carzino R., Gavioli L., Athanassiou A., Fragouli D.	In situ formation of SnO <sub>2</sub> nanoparticles on cellulose acetate fibrous membranes for the photocatalytic degradation of organic dyes	2020	Journal of Photochemistry and Photobiology A: Chemistry	Co-author	10.1016/j.jphotochem.2020.112599
49	Di Martino S., Tardia P., Cilibrasi V., Caputo S., Mazzonna M., Russo D., Penna I., Realini N., Margaroli N., Migliore M., Pizzirani D., Ottonello G., Bertozzi S.M., Armirotti A., Nguyen D., Sun Y., Bongarzone E.R., Lansbury P., Liu M., Skerlj R., Scarpelli R.	Lead Optimization of Benzoxazolone Carboxamides as Orally Bioavailable and CNS Penetrant Acid Ceramidase Inhibitors	2020	Journal of Medicinal Chemistry	Co-author	10.1021/acs.jmedchem.9b02004
50	Pace M., Colombi I., Falappa M., Freschi A., Bandarabadi M., Armirotti A., Encarnacion B.M., Adamantidis A.R., Amici R., Cerri M., Chiappalone M., Tucci V.	Loss of Snord116 alters cortical neuronal activity in mice: A preclinical investigation of Prader-Willi syndrome	2020	Human Molecular Genetics	Co-author	10.1093/HMG/DDAA084

51	Di Martino R.M.C., Bottegoni G., Seghetti F., Russo D., Penna I., De Simone A., Ottonello G., Mandrup Bertozzi S., Armirotti A., Bandiera T., Belluti F., Cavalli A.	Multitarget Compounds for Bipolar Disorder: From Rational Design to Preliminary Pharmacokinetic Evaluation	2020	ChemMedChem	Co-author	10.1002/cmdc.202000210
52	Ortega J.A., Arencibia J.M., Minniti E., Byl J.A.W., Franco-Ulloa S., Borgogno M., Genna V., Summa M., Bertozzi S.M., Bertorelli R., Armirotti A., Minarini A., Sissi C., Osheroff N., De Vivo M.	Novel, Potent, and Druglike Tetrahydroquinazoline Inhibitor That Is Highly Selective for Human Topoisomerase II $\alpha$ over $\beta$	2020	Journal of Medicinal Chemistry	Co-author	10.1021/acs.jmedchem.0c00774
53	Garone M.G., Alfano V., Salvatori B., Braccia C., Peruzzi G., Colantoni A., Bozzoni I., Armirotti A., Rosa A.	Proteomics analysis of FUS mutant human motoneurons reveals altered regulation of cytoskeleton and other ALS-linked proteins via 3'UTR binding	2020	Scientific Reports	Co-author	10.1038/s41598-020-68794-6
54	Marasca C., Protti M., Mandrioli R., Atti A.R., Armirotti A., Cavalli A., De Ronchi D., Mercolini L.	Whole blood and oral fluid microsampling for the monitoring of patients under treatment with antidepressant drugs	2020	Journal of Pharmaceutical and Biomedical Analysis	Co-author	10.1016/j.jpba.2020.113384
55	Hamid Z., Basit A., Pontis S., Piras F., Assogna F., Bossù P., Pontieri F.E., Stefani A., Spalletta G., Franceschi P., Reggiani A., Armirotti A.	Gender specific decrease of a set of circulating N-acylphosphatidyl ethanolamines (NAPes) in the plasma of Parkinson's disease patients	2019	Metabolomics	Last & Corresponding PI	10.1007/s11306-019-1536-z
56	Braccia C., Tomati V., Caci E., Pedemonte N., Armirotti A.	SWATH label-free proteomics for cystic fibrosis research	2019	Journal of Cystic Fibrosis	Last & Corresponding PI	10.1016/j.jcf.2018.10.004
57	Armirotti A., Tomati V., Matthes E., Veit G., Cholon D.M., Phuan P.-W., Braccia C., Guidone D., Gentszsch M., Lukacs G.L., Verkman A.S., Galletta L.J.V., Hanrahan J.W., Pedemonte N.	Bioactive Thymosin Alpha-1 Does Not Influence F508del-CFTR Maturation and Activity	2019	Scientific Reports	First Author	10.1038/s41598-019-46639-1
58	Carli S., Fioravanti G., Armirotti A., Ciarpella F., Prato M., Ottonello G., Salerno M., Scarpellini A., Perrone D., Marchesi E., Ricci D., Fadiga L.	A New Drug Delivery System Based on Tauroursodeoxycholic Acid and PEDOT	2019	Chemistry - A European Journal	Co-author	10.1002/chem.201805285
59	Bramini M., Chiacchiaretta M., Armirotti A., Rocchi A., Kale D.D., Martin C., Vázquez E., Bandiera T., Ferroni S., Cesca F., Benfenati F.	An Increase in Membrane Cholesterol by Graphene Oxide Disrupts Calcium Homeostasis in Primary Astrocytes	2019	Small	Co-author	10.1002/smll.201900147
60	Moscattelli N., Lunetti P., Braccia C., Armirotti A., Pisanello F., De Vittorio M., Zara V., Ferramosca A.	Comparative proteomic analysis of proteins involved in bioenergetics pathways associated with human sperm motility	2019	International Journal of Molecular Sciences	Co-author	10.3390/ijms20123000

61	Boso F., Armirotti A., Taioli F., Ferrarini M., Nobbio L., Cavallaro T., Fabrizi G.M.	Deoxy sphingolipids as candidate biomarkers for a novel SPTLC1 mutation associated with HSAN-I	2019	Neurology: Genetics	Co-author	10.1212/NXG.0000000000000365
62	Gómez-Boronat M., Isorna E., Armirotti A., Delgado M.J., Piomelli D., De Pedro N.	Diurnal Profiles of N-Acylethanolamines in goldfish brain and gastrointestinal tract: Possible role of feeding	2019	Frontiers in Neuroscience	Co-author	10.3389/fnins.2019.00450
63	Vozella V., Basit A., Piras F., Realini N., Armirotti A., Bossù P., Assogna F., Sensi S.L., Spalletta G., Piomelli D.	Elevated plasma ceramide levels in post-menopausal women: A cross-sectional study	2019	Aging	Co-author	10.18632/aging.101719
64	Pons-Espinal M., Gasperini C., Marzi M.J., Braccia C., Armirotti A., Pöttsch A., Walker T.L., Fabel K., Nicassio F., Kempermann G., De Pietri Tonelli D.	MIR-135a-5p is Critical for Exercise-Induced Adult Neurogenesis	2019	Stem Cell Reports	Co-author	10.1016/j.stemcr.2019.04.020
65	Braccia C., Espinal M.P., Pini M., De Pietri Tonelli D., Armirotti A.	A new SWATH ion library for mouse adult hippocampal neural stem cells	2018	Data in Brief	Last & Corresponding PI	10.1016/j.dib.2018.02.062
66	Hamid Z., Summa M., Armirotti A.	A Swath Label-Free Proteomics insight into the Faah-/- Mouse Liver	2018	Scientific Reports	Last & Corresponding PI	10.1038/s41598-018-30553-z
67	Carli S., Trapella C., Armirotti A., Fantinati A., Ottonello G., Scarpellini A., Prato M., Fadiga L., Ricci D.	Biochemically Controlled Release of Dexamethasone Covalently Bound to PEDOT	2018	Chemistry - A European Journal	Co-author	10.1002/chem.201801499
68	Di Pardo A., Amico E., Basit A., Armirotti A., Joshi P., Neely M.D., Vuono R., Castaldo S., Digilio A.F., Scalabri F., Pepe G., Elifani F., Madonna M., Jeong S.K., Park B.-M., D'Esposito M., Bowman A.B., Barker R.A., Maglione V.	Correction: Defective Sphingosine-1-phosphate metabolism is a druggable target in Huntington's disease (Scientific Reports DOI: 10.1038/s41598-017-05709-y)	2018	Scientific Reports	Co-author	10.1038/s41598-018-23083-1
69	Chiacchiaretta M., Bramini M., Rocchi A., Armirotti A., Giordano E., Vázquez E., Bandiera T., Ferroni S., Cesca F., Benfenati F.	Graphene Oxide Upregulates the Homeostatic Functions of Primary Astrocytes and Modulates Astrocyte-to-Neuron Communication	2018	Nano Letters	Co-author	10.1021/acs.nanolett.8b02487
70	Sondo E., Falchi F., Caci E., Ferrera L., Giacomini E., Pesce E., Tomati V., Mandrup Bertozzi S., Goldoni L., Armirotti A., Ravazzolo R., Cavalli A., Pedemonte N.	Pharmacological Inhibition of the Ubiquitin Ligase RNF5 Rescues F508del-CFTR in Cystic Fibrosis Airway Epithelia	2018	Cell Chemical Biology	Co-author	10.1016/j.chembiol.2018.04.010
71	Sasso O., Summa M., Armirotti A., Pontis S., De Mei C., Piomelli D.	The N-Acylethanolamine Acid Amidase Inhibitor ARN077 Suppresses Inflammation and Pruritus in a Mouse Model of Allergic Dermatitis	2018	Journal of Investigative Dermatology	Co-author	10.1016/j.jid.2017.07.853
72	Tomati V., Caci E., Ferrera L., Pesce E., Sondo E., Cholon D.M., Quinney N.L., Boyles S.E., Armirotti A., Ravazzolo R., Galiotta L.J.V., Gentsch M., Pedemonte N.	Thymosin $\alpha$ -1 does not correct F508del-CFTR in cystic fibrosis airway epithelia	2018	JCI Insight	Co-author	10.1172/jci.insight.98699

73	Altieri P., Murialdo R., Barisione C., Lazzarini E., Garibaldi S., Fabbi P., Ruggeri C., Borile S., Carbone F., Armirotti A., Canepa M., Ballestrero A., Brunelli C., Montecuccio F., Ameri P., Spallarossa P.	5-fluorouracil causes endothelial cell senescence: potential protective role of glucagon-like peptide 1	2017	British Journal of Pharmacology	Co-author	10.1111/bph.13725
74	Barca-Mayo O., Pons-Espinal M., Follert P., Armirotti A., Berdondini L., De Pietri Tonelli D.	Astrocyte deletion of Bmal1 alters daily locomotor activity and cognitive functions via GABA signalling	2017	Nature Communications	Co-author	10.1038/ncomms14336
75	Giorgi A., Migliarini S., Galbusera A., Maddaloni G., Mereu M., Margiani G., Gritti M., Landi S., Trovato F., Bertozzi S.M., Armirotti A., Ratto G.M., De Luca M.A., Tonini R., Gozzi A., Pasqualetti M.	Brain-wide Mapping of Endogenous Serotonergic Transmission via Chemogenetic fMRI	2017	Cell Reports	Co-author	10.1016/j.celrep.2017.09.087
76	Pardo A.D., Basit A., Armirotti A., Amico E., Castaldo S., Pepe G., Marracino F., Buttari F., Digilio A.F., Maglione V.	De novo synthesis of sphingolipids is defective in experimental models of Huntington's disease	2017	Frontiers in Neuroscience	Co-author	10.3389/fnins.2017.00698
77	Di Pardo A., Amico E., Basit A., Armirotti A., Joshi P., Neely D.M., Vuono R., Castaldo S., Digilio A.F., Scalabri F., Pepe G., Elifani F., Madonna M., Jeong S.K., Park B.-M., D'Esposito M., Bowman A.B., Barker R.A., Maglione V.	Defective Sphingosine-1-phosphate metabolism is a druggable target in Huntington's disease	2017	Scientific Reports	Co-author	10.1038/s41598-017-05709-y
78	De Simone A., Russo D., Ruda G.F., Micoli A., Ferraro M., Di Martino R.M.C., Ottonello G., Summa M., Armirotti A., Bandiera T., Cavalli A., Bottegoni G.	Design, Synthesis, Structure-Activity Relationship Studies, and Three-Dimensional Quantitative Structure-Activity Relationship (3D-QSAR) Modeling of a Series of O-Biphenyl Carbamates as Dual Modulators of Dopamine D3 Receptor and Fatty Acid Amide Hydrolase	2017	Journal of Medicinal Chemistry	Co-author	10.1021/acs.jmedchem.6b01578
79	Balbi C., Piccoli M., Barile L., Papait A., Armirotti A., Principi E., Reverberi D., Pascucci L., Becherini P., Varesio L., Mogni M., Coviello D., Bandiera T., Pozzobon M., Cancedda R., Bollini S.	First characterization of human amniotic fluid stem cell extracellular vesicles as a powerful paracrine tool endowed with regenerative potential	2017	Stem Cells Translational Medicine	Co-author	10.1002/sctm.16-0297
80	Riccardi L., Arencibia J.M., Bono L., Armirotti A., Giroto S., De Vivo M.	Lid domain plasticity and lipid flexibility modulate enzyme specificity in human monoacylglycerol lipase	2017	Biochimica et Biophysica Acta - Molecular and Cell Biology of Lipids	Co-author	10.1016/j.bbalip.2017.01.002
81	Merrill C.B., Basit A., Armirotti A., Jia Y., Gall C.M., Lynch G., Piomelli D.	Patch clamp-assisted single neuron lipidomics	2017	Scientific Reports	Co-author	10.1038/s41598-017-05607-3

82	Ortega J.A., Arencibia J.M., La Sala G., Borgogno M., Bauer I., Bono L., Braccia C., Armirotti A., Girotto S., Ganesan A., De Vivo M.	Pharmacophore Identification and Scaffold Exploration to Discover Novel, Potent, and Chemically Stable Inhibitors of Acid Ceramidase in Melanoma Cells	2017	Journal of Medicinal Chemistry	Co-author	10.1021/acs.jmedchem.7b00472
83	Capodivento G., Visigalli D., Garnero M., Fancellu R., Ferrara M.D., Basit A., Hamid Z., Pastore V.P., Garibaldi S., Armirotti A., Mancardi G., Serrati C., Capello E., Schenone A., Nobbio L.	Sphingomyelin as a myelin biomarker in CSF of acquired demyelinating neuropathies	2017	Scientific Reports	Co-author	10.1038/s41598-017-08314-1
84	Pons-Espinal M., de Luca E., Marzi M.J., Beckervordersandforth R., Armirotti A., Nicassio F., Fabel K., Kempermann G., De Pietri Tonelli D.	Synergic Functions of miRNAs Determine Neuronal Fate of Adult Neural Stem Cells	2017	Stem Cell Reports	Co-author	10.1016/j.stemcr.2017.02.012
85	Basit A., Pontis S., Piomelli D., Armirotti A.	Ion mobility mass spectrometry enhances low-abundance species detection in untargeted lipidomics	2016	Metabolomics	Last & Corresponding PI	10.1007/s11306-016-0971-3
86	Falchi F., Bertozzi S.M., Ottonello G., Ruda G.F., Colombano G., Fiorelli C., Martucci C., Bertorelli R., Scarpelli R., Cavalli A., Bandiera T., Armirotti A.	Kernel-Based, Partial Least Squares Quantitative Structure-Retention Relationship Model for UPLC Retention Time Prediction: A Useful Tool for Metabolite Identification	2016	Analytical Chemistry	Last & Corresponding PI	10.1021/acs.analchem.6b02075
87	Hajjali H., Summa M., Russo D., Armirotti A., Brunetti V., Bertorelli R., Athanassiou A., Mele E.	Alginate-lavender nanofibers with antibacterial and anti-inflammatory activity to effectively promote burn healing	2016	Journal of Materials Chemistry B	Co-author	10.1039/c5tb02174j
88	Brindisi M., Maramai S., Gemma S., Brogi S., Grillo A., Di Cesare Mannelli L., Gabellieri E., Lamponi S., Saponara S., Gorelli B., Tedesco D., Bonfiglio T., Landry C., Jung K.-M., Armirotti A., Luongo L., Ligresti A., Piscitelli F., Bertucci C., Dehouck M.-P., Campiani G., Maione S., Ghelardini C., Pittaluga A., Piomelli D., Di Marzo V., Butini S.	Development and Pharmacological Characterization of Selective Blockers of 2-Arachidonoyl Glycerol Degradation with Efficacy in Rodent Models of Multiple Sclerosis and Pain	2016	Journal of Medicinal Chemistry	Co-author	10.1021/acs.jmedchem.5b01812
89	Sasso O., Pontis S., Armirotti A., Cardinali G., Kovacs D., Migliore M., Summa M., Moreno-Sanz G., Picardo M., Piomelli D.	Endogenous N- Acyl taurines regulate skin wound healing	2016	Proceedings of the National Academy of Sciences of the United States of America	Co-author	10.1073/pnas.1605578113



90	Rocchi A., Milioto C., Parodi S., Armirotti A., Borgia D., Pellegrini M., Urciuolo A., Molon S., Morbidoni V., Marabita M., Romanello V., Gatto P., Blaauw B., Bonaldo P., Sambataro F., Robins D.M., Lieberman A.P., Sorarù G., Vergani L., Sandri M., Pennuto M.	Glycolytic-to-oxidative fiber-type switch and mTOR signaling activation are early-onset features of SBMA muscle modified by high-fat diet	2016	Acta Neuropathologica	Co-author	10.1007/s00401-016-1550-4
91	Bramini M., Sacchetti S., Armirotti A., Rocchi A., Vázquez E., León Castellanos V., Bandiera T., Cesca F., Benfenati F.	Graphene Oxide Nanosheets Disrupt Lipid Composition, Ca <sup>2+</sup> Homeostasis, and Synaptic Transmission in Primary Cortical Neurons	2016	ACS Nano	Co-author	10.1021/acsnano.6b03438
92	Migliore M., Habrant D., Sasso O., Albani C., Bertozzi S.M., Armirotti A., Piomelli D., Scarpelli R.	Potent multitarget FAAH-COX inhibitors: Design and structure-activity relationship studies	2016	European Journal of Medicinal Chemistry	Co-author	10.1016/j.ejmech.2015.12.036
93	Migliore M., Pontis S., Fuentes de Arriba A.L., Realini N., Torrente E., Armirotti A., Romeo E., Di Martino S., Russo D., Pizzirani D., Summa M., Lanfranco M., Ottonello G., Busquet P., Jung K.-M., Garcia-Guzman M., Heim R., Scarpelli R., Piomelli D.	Second-Generation Non-Covalent NAAA Inhibitors are Protective in a Model of Multiple Sclerosis	2016	Angewandte Chemie - International Edition	Co-author	10.1002/anie.201603746
94	Basit A., Piomelli D., Armirotti A.	Rapid evaluation of 25 key sphingolipids and phosphosphingolipids in human plasma by LC-MS/MS	2015	Analytical and Bioanalytical Chemistry	Last & Corresponding PI	10.1007/s00216-015-8585-6
95	Prati F., De Simone A., Armirotti A., Summa M., Pizzirani D., Scarpelli R., Bertozzi S.M., Perez D.I., Andrisano V., Perez-Castillo A., Monti B., Massenzio F., Polito L., Racchi M., Sabatino P., Bottegoni G., Martinez A., Cavalli A., Bolognesi M.L.	3,4-Dihydro-1,3,5-triazin-2(1H)-ones as the First Dual BACE-1/GSK-3 $\beta$ Fragment Hits against Alzheimer's Disease	2015	ACS Chemical Neuroscience	Co-author	10.1021/acscchemneuro.5b00121
96	Ribeiro A., Pontis S., Mengatto L., Armirotti A., Chiurchiù V., Capurro V., Fiasella A., Nuzzi A., Romeo E., Moreno-Sanz G., Maccarrone M., Reggiani A., Tarzia G., Mor M., Bertozzi F., Bandiera T., Piomelli D.	A Potent Systemically Active N-Acylethanolamine Acid Amidase Inhibitor that Suppresses Inflammation and Human Macrophage Activation	2015	ACS Chemical Biology	Co-author	10.1021/acscchembio.5b00114
97	Romeo E., Ponzano S., Armirotti A., Summa M., Bertozzi F., Garau G., Bandiera T., Piomelli D.	Activity-Based Probe for N-Acylethanolamine Acid Amidase	2015	ACS Chemical Biology	Co-author	10.1021/acscchembio.5b00197
98	Pizzirani D., Bach A., Realini N., Armirotti A., Mengatto L., Bauer I., Giroto S., Pagliuca C., De Vivo M., Summa M., Ribeiro A., Piomelli D.	Benzoxazolone carboxamides: Potent and systemically active inhibitors of intracellular acid ceramidase	2015	Angewandte Chemie - International Edition	Co-author	10.1002/anie.201409042

99	Justinova Z., Panlilio L.V., Moreno-Sanz G., Redhi G.H., Auber A., Secci M.E., Mascia P., Bandiera T., Armirotti A., Bertorelli R., Chefer S.I., Barnes C., Yasar S., Piomelli D., Goldberg S.R.	Effects of Fatty Acid Amide Hydrolase (FAAH) Inhibitors in Non-Human Primate Models of Nicotine Reward and Relapse	2015	Neuropsychopharmacology	Co-author	10.1038/npp.2015.62
100	Greco R., Bandiera T., Mangione A.S., Demartini C., Siani F., Nappi G., Sandrini G., Guizarro A., Armirotti A., Piomelli D., Tassorelli C.	Effects of peripheral FAAH blockade on NTG-induced hyperalgesia - Evaluation of URB937 in an animal model of migraine	2015	Cephalalgia	Co-author	10.1177/0333102414566862
101	Tomati V., Sondo E., Armirotti A., Caci E., Pesce E., Marini M., Gianotti A., Ju Jeon Y., Cilli M., Pistorio A., Mastracci L., Ravazzolo R., Scholte B., Ronai Z., Galletta L.J.V., Pedemonte N.	Genetic Inhibition of the Ubiquitin Ligase Rnf5 Attenuates Phenotypes Associated to F508del Cystic Fibrosis Mutation	2015	Scientific Reports	Co-author	10.1038/srep12138
102	Furlotti G., Alisi M.A., Cazzolla N., Dragone P., Durando L., Magarò G., Mancini F., Mangano G., Ombrato R., Vitiello M., Armirotti A., Capurro V., Lanfranco M., Ottonello G., Summa M., Reggiani A.	Hit Optimization of 5-Substituted-N-(piperidin-4-ylmethyl)-1H-indazole-3-carboxamides: Potent Glycogen Synthase Kinase-3 (GSK-3) Inhibitors with in Vivo Activity in Model of Mood Disorders	2015	Journal of Medicinal Chemistry	Co-author	10.1021/acs.jmedchem.5b01208
103	Palermo G., Bauer I., Campomanes P., Cavalli A., Armirotti A., Giroto S., Rothlisberger U., De Vivo M.	Keys to Lipid Selection in Fatty Acid Amide Hydrolase Catalysis: Structural Flexibility, Gating Residues and Multiple Binding Pockets	2015	PLoS Computational Biology	Co-author	10.1371/journal.pcbi.1004231
104	Prati F., De Simone A., Bisignano P., Armirotti A., Summa M., Pizzirani D., Scarpelli R., Perez D.I., Andrisano V., Perez-Castillo A., Monti B., Massenzio F., Polito L., Racchi M., Favia A.D., Bottegoni G., Martinez A., Bolognesi M.L., Cavalli A.	Multitarget drug discovery for Alzheimer's disease: Triazinones as BACE-1 and GSK-3 $\beta$ inhibitors	2015	Angewandte Chemie - International Edition	Co-author	10.1002/anie.201410456
105	Sasso O., Migliore M., Habrant D., Armirotti A., Albani C., Summa M., Moreno-Sanz G., Scarpelli R., Piomelli D.	Multitarget Fatty acid amide hydrolase/cyclooxygenase blockade suppresses intestinal inflammation and protects against nonsteroidal anti-inflammatory drug-dependent gastrointestinal damage	2015	FASEB Journal	Co-author	10.1096/fj.15-270637
106	Dotsey E.Y., Jung K.-M., Basit A., Wei D., Daglian J., Vacondio F., Armirotti A., Mor M., Piomelli D.	Peroxide-dependent MGL sulfenylation regulates 2-AG-mediated endocannabinoid signaling in brain neurons	2015	Chemistry and Biology	Co-author	10.1016/j.chembiol.2015.04.013

107	Barthel M.J., Angeloni I., Petrelli A., Avellini T., Scarpellini A., Bertoni G., Armirotti A., Moreels I., Pellegrino T.	Synthesis of Highly Fluorescent Copper Clusters Using Living Polymer Chains as Combined Reducing Agents and Ligands	2015	ACS Nano	Co-author	10.1021/acsnano.5b04270
108	Armirotti A., Basit A., Realini N., Caltagirone C., Bossù P., Spalletta G., Piomelli D.	Sample preparation and orthogonal chromatography for broad polarity range plasma metabolomics: Application to human subjects with neurodegenerative dementia	2014	Analytical Biochemistry	First Author	10.1016/j.ab.2014.03.019
109	Fiasella A., Nuzzi A., Summa M., Armirotti A., Tarozzo G., Tarzia G., Mor M., Bertozzi F., Bandiera T., Piomelli D.	3-Aminoazetidin-2-one derivatives as N-acylethanolamine acid amidase (NAAA) inhibitors suitable for systemic administration	2014	ChemMedChem	Co-author	10.1002/cmdc.201300546
110	Tinoco A.B., Armirotti A., Isorna E., Delgado M.J., Piomelli D., De Pedro N.	Role of oleylethanolamide as a feeding regulator in goldfish	2014	Journal of Experimental Biology	Co-author	10.1242/jeb.106161
111	Moreno-Sanz G., Barrera B., Armirotti A., Bertozzi S.M., Scarpelli R., Bandiera T., Prieto J.G., Duranti A., Tarzia G., Merino G., Piomelli D.	Structural determinants of peripheral O-arylcarbamate FAAH inhibitors render them dual substrates for Abcb1 and Abcg2 and restrict their access to the brain	2014	Pharmacological Research	Co-author	10.1016/j.phrs.2014.06.004
112	Vitale R., Ottonello G., Petracca R., Bertozzi S.M., Ponzano S., Armirotti A., Berteotti A., Dionisi M., Cavalli A., Piomelli D., Bandiera T., Bertozzi F.	Synthesis, structure-activity, and structure-stability relationships of 2-substituted-n-(4-oxo-3-oxetanyl) n-acylethanolamine acid amidase (NAAA) inhibitors	2014	ChemMedChem	Co-author	10.1002/cmdc.201300416
113	Cardinali B., Lunardi G., Millo E., Armirotti A., Damonte G., Profumo A., Gori S., Iacono G., Levaggi A., Del Mastro L.	Trastuzumab quantification in serum: A new, rapid, robust ELISA assay based on a mimetic peptide that specifically recognizes trastuzumab	2014	Analytical and Bioanalytical Chemistry	Co-author	10.1007/s00216-014-7842-4
114	Realini N., Solorzano C., Pagliuca C., Pizzirani D., Armirotti A., Luciani R., Costi M.P., Bandiera T., Piomelli D.	Discovery of highly potent acid ceramidase inhibitors with in vitro tumor chemosensitizing activity	2013	Scientific Reports	Co-author	10.1038/srep01035
115	Ponzano S., Bertozzi F., Mengatto L., Dionisi M., Armirotti A., Romeo E., Berteotti A., Fiorelli C., Tarozzo G., Reggiani A., Duranti A., Tarzia G., Mor M., Cavalli A., Piomelli D., Bandiera T.	Synthesis and structure-activity relationship (SAR) of 2-methyl-4-oxo-3-oxetanylcyclic acid esters, a class of potent N-acylethanolamine acid amidase (NAAA) inhibitors	2013	Journal of Medicinal Chemistry	Co-author	10.1021/jm400739u
116	Armirotti A., Romeo E., Ponzano S., Mengatto L., Dionisi M., Karacsonyi C., Bertozzi F., Garau G., Tarozzo G., Reggiani A., Bandiera T., Tarzia G., Mor M., Piomelli D.	$\beta$ -Lactones inhibit N-acylethanolamine acid amidase by S-acylation of the catalytic N-terminal cysteine	2012	ACS Medicinal Chemistry Letters	First Author	10.1021/ml300056y

117	Fu J., Bottegoni G., Sasso O., Bertorelli R., Rocchia W., Masetti M., Guijarro A., Lodola A., Armirotti A., Garau G., Bandiera T., Reggiani A., Mor M., Cavalli A., Piomelli D.	A catalytically silent FAAH-1 variant drives anandamide transport in neurons	2012	Nature Neuroscience	Co-author	10.1038/nn.2986
118	Sasso O., Bertorelli R., Bandiera T., Scarpelli R., Colombano G., Armirotti A., Moreno-Sanz G., Reggiani A., Piomelli D.	Peripheral FAAH inhibition causes profound antinociception and protects against indomethacin-induced gastric lesions	2012	Pharmacological Research	Co-author	10.1016/j.phrs.2012.02.012
119	Pedemonte N., Tomati V., Sondo E., Caci E., Millo E., Armirotti A., Damonte G., Zegarra-Moran O., Galletta L.J.V.	Dual activity of aminoarylthiazoles on the trafficking and gating defects of the cystic fibrosis transmembrane conductance regulator chloride channel caused by cystic fibrosis mutations	2011	Journal of Biological Chemistry	Co-author	10.1074/jbc.M110.184267
120	Adriano E., Garbati P., Damonte G., Salis A., Armirotti A., Balestrino M.	Searching for a therapy of creatine transporter deficiency: Some effects of creatine ethyl ester in brain slices in vitro	2011	Neuroscience	Co-author	10.1016/j.neuroscience.2011.09.018
121	Armirotti A., Damonte G.	Achievements and perspectives of top-down proteomics	2010	Proteomics	First & corresponding author	10.1002/pmic.201000245
122	Parakkottil Chothi M., Duncan G.A., Armirotti A., Abergel C., Gurnon J.R., Van Etten J.L., Bernardi C., Damonte G., Tonetti M.	Identification of an L-rhamnose synthetic pathway in two nucleocytoplasmic large DNA viruses	2010	Journal of Virology	Co-author	10.1128/JVI.00770-10
123	Armirotti A.	Bottom-up proteomics	2009	Current Analytical Chemistry	Last & Corresponding PI	10.2174/157341109787846117
124	Armirotti A., Damonte G., Pozzolini M., Mussino F., Cerrano C., Salis A., Benatti U., Giovine M.	Primary structure and post-translational modifications of silicatein beta from the marine sponge <i>Petrosia ficiformis</i> (Poiret, 1789)	2009	Journal of Proteome Research	First Author	10.1021/pr900342y
125	Armirotti A., Benatti U., Damonte G.	Top-down proteomics with a quadrupole time-of-flight mass spectrometer and collision-induced dissociation	2009	Rapid Communications in Mass Spectrometry	First & corresponding author	10.1002/rcm.3925
126	Lunardi G., Armirotti A., Nicodemo M., Cavallini L., Damonte G., Vannozzi M.O., Venturini M.	Comparison of temsirolimus pharmacokinetics in patients with renal cell carcinoma not receiving dialysis and those receiving hemodialysis: A case series	2009	Clinical Therapeutics	Co-author	10.1016/j.clinthera.2009.08.018
127	Mukhopadhyay R., Bisacchi D., Zhou Y., Armirotti A., Bordo D.	Structural Characterization of the As/Sb Reductase LmACR2 from <i>Leishmania major</i>	2009	Journal of Molecular Biology	Co-author	10.1016/j.jmb.2008.07.056
128	Ottaggio L., Bestoso F., Armirotti A., Balbi A., Damonte G., Mazzei M., Sancandi M., Miele M.	Taxanes from shells and leaves of <i>Corylus avellana</i>	2008	Journal of Natural Products	Co-author	10.1021/np0704046
129	Lunardi G., Vannozzi M.O., Armirotti A., Nicodemo M., Venturini M., Cavallini L.	Temsirolimus in patients with renal cancer on hemodialysis	2008	Journal of Clinical Oncology	Co-author	10.1200/JCO.2008.19.3144

130	Armirotti A., Scapolla C., Benatti U., Damonte G.	Electrospray ionization ion trap multiple-stage mass spectrometric fragmentation pathways of leucine and isoleucine: An ab initio computational study	2007	Rapid Communications in Mass Spectrometry	First & corresponding author	10.1002/rcm.3198
131	Armirotti A., Millo E., Damonte G.	How to Discriminate Between Leucine and Isoleucine by Low Energy ESI-TRAP MSn	2007	Journal of the American Society for Mass Spectrometry	First & corresponding author	10.1016/j.jasms.2006.08.011
132	Piccini A., Zanusso G., Borghi R., Noviello C., Monaco S., Russo R., Damonte G., Armirotti A., Gelati M., Giordano R., Zambenedetti P., Russo C., Ghetti B., Tabaton M.	Association of a presenilin 1 S170F mutation with a novel Alzheimer disease molecular phenotype	2007	Archives of Neurology	Co-author	10.1001/archneur.64.5.738
133	Massone S., Argellati F., Passalacqua M., Armirotti A., Melone L., d'Abramo C., Marinari U.M., Domenicotti C., Pronzato M.A., Ricciarelli R.	Downregulation of myosin II-B by siRNA alters the subcellular localization of the amyloid precursor protein and increases amyloid- $\beta$ deposition in N2a cells	2007	Biochemical and Biophysical Research Communications	Co-author	10.1016/j.bbrc.2007.08.061
134	Millo E., Pietra G., Armirotti A., Vacca P., Mingari M.C., Moretta L., Damonte G.	Purification and HPLC-MS analysis of a naturally processed HCMV-derived peptide isolated from the HEK-293T/HLA-E+/UI40+ cell transfectants and presented at the cell surface in the context of HLA-E	2007	Journal of Immunological Methods	Co-author	10.1016/j.jim.2007.01.018
135	De Chiara G., Marocci M.E., Torcia M., Lucibello M., Rosini P., Bonini P., Higashimoto Y., Damonte G., Armirotti A., Amodei S., Palamara A.T., Russo T., Garaci E., Cozzolino F.	Bcl-2 phosphorylation by p38 MAPK: Identification of target sites and biologic consequences	2006	Journal of Biological Chemistry	Co-author	10.1074/jbc.M511052200
136	Bestoso F., Ottaggio L., Armirotti A., Balbi A., Damonte G., Degan P., Mazzei M., Cavalli F., Ledda B., Miele M.	In vitro cell cultures obtained from different explants of <i>Corylus avellana</i> produce Taxol and taxanes	2006	BMC Biotechnology	Co-author	10.1186/1472-6750-6-45
137	Armirotti A., Benatti U., Miele M., Damonte G.	Matrix-assisted laser desorption/ionization mass spectrometry of taxanes	2005	Rapid Communications in Mass Spectrometry	First & corresponding author	10.1002/rcm.2227
138	Basile G., Tagliatela-Scafati O., Damonte G., Armirotti A., Bruzzone S., Guida L., Franco L., Usai C., Fattorusso E., De Flora A., Zocchi E.	ADP-ribosyl cyclases generate two unusual adenine homodinucleotides with cytotoxic activity on mammalian cells	2005	Proceedings of the National Academy of Sciences of the United States of America	Co-author	10.1073/pnas.0503691102
139	Piccini A., Russo C., Gliozzi A., Relini A., Vitali A., Borghi R., Giliberto L., Armirotti A., D'Arrigo C., Bachi A., Cattaneo A., Canale C., Torrassa S., Saido T.C., Markesbery W., Gambetti P., Tabaton M.	$\beta$ -amyloid is different in normal aging and in Alzheimer disease	2005	Journal of Biological Chemistry	Co-author	10.1074/jbc.M501694200

140	Spallarossa A., Forlani F., Carpen A., Armirotti A., Pagani S., Bolognesi M., Bordo D.	The "Rhodanese" Fold and Catalytic Mechanism of 3-Mercaptopyruvate Sulfurtransferases: Crystal Structure of SseA from Escherichia coli	2004	Journal of Molecular Biology	Co-author	10.1016/j.jmb.2003.10.072
141	Tonetti M., Zanardi D., Gurnon J.R., Fruscione F., Armirotti A., Damonte G., Sturla L., De Flora A., Van Etten J.L.	Paramecium bursaria Chlorella virus 1 encodes two enzymes involved in the biosynthesis of GDP-L-fucose and GDP-D-rhamnose	2003	Journal of Biological Chemistry	Co-author	10.1074/jbc.M301543200

<b>N</b>	<b>Authors</b>	<b>Title</b>	<b>Year</b>	<b>Source title</b>
1	Lin, Hazel; Bürki-Thurnherr, Tina; Kaur, Jasreen; Wick, Peter; Pelin, Marco; Tubaro, Aurelia; Candotto Carniel, Fabio; Tretiach, Mauro; Flahaut, Emmanuel; Iglesias, Daniel; Vázquez, Ester; Cellot, Giada; Ballerini, Laura; Castagnola, Valentina; Benfenati, Fabio; Armirotti, Andrea; Sallustrau, Antoine; Taran, Frederic; Keck, Mathilde; Bussy, Cyrill; Vranic, Sandra; Kostarelos, Kostas; Connolly, Mona; Navas, José Maria; Mouchet, Florence; Gauthier, Laury; Baker, James; Suarez-Merino, Blanca; Kanerva, Tomi; Prato, Maurizio; Fadeel, Bengt; Bianco, Alberto	Environmental and Health Impacts of Graphene and other Two-Dimensional Materials: A Graphene Flagship Perspective	2024	ACS Nano
2	Boselli L, Castagnola V, Armirotti A, Benfenati F, Pompa PP.	Biomolecular Corona of Gold Nanoparticles: The Urgent Need for Strong Roots to Grow Strong Branches.	2023	Small
3	Basagni F, Ortega JA, Bertozzi SM, Armirotti A, Summa M, Bertorelli R, Bartolini M, Mellor IR, Bedeschi M, Bottegoni G, Lembo V, Minarini A, Cavalli A, Rosini M.	Galantamine-memantine hybrids for Alzheimer's disease: The influence of linker rigidity in biological activity and pharmacokinetic properties.	2023	Eur J Med Chem

4	Tarricone G, Castagnola V, Mastronardi V, Corsi L, Debellis D, Ciobanu DZ, Armirotti A, Benfenati F, Boselli L, Pompa PP.	Catalytic Bioswitch of Platinum Nanozymes: Mechanistic Insights of Reactive Oxygen Species Scavenging in the Neurovascular Unit	2023	Nano Letters
5	Liessi N., Tomati V., Capurro V., Loberto N., Garcia-Aloy M., Franceschi P., Aureli M., Pedemonte N., Armirotti A.	The combination elxacaftor/tezacaftor/ivacaftor (ETI) modulates the de novo synthetic pathway of ceramides in a genotype-independent manner	2023	Journal of Cystic F
6	Palange A.L., Mascolo D.D., Ferreira M., Gawne P.J., Spanò R., Felici A., Bono L., Moore T.L., Salerno M., Armirotti A., Decuzzi P.	Boosting the Potential of Chemotherapy in Advanced Breast Cancer Lung Metastasis via Micro-Combinatorial Hydrogel Particles	2023	Advanced Science
7	Tarricone G., Castagnola V., Mastronardi V., Corsi L., Debellis D., Ciobanu D.Z., Armirotti A., Benfenati F., Boselli L., Pompa P.P.	Catalytic Bioswitch of Platinum Nanozymes: Mechanistic Insights of Reactive Oxygen Species Scavenging in the Neurovascular Unit	2023	Nano Letters
8	Munafò F., Nigro M., Brindani N., Manigrasso J., Geronimo I., Ottonello G., Armirotti A., De Vivo M.	Computer-aided identification, synthesis, and biological evaluation of DNA polymerase $\eta$ inhibitors for the treatment of cancer	2023	European Journal
9	Brindani N., Munafò F., Menichetti A., Donati E., Nigro M., Ottonello G., Armirotti A., De Vivo M.	Design, synthesis, docking, and biochemical characterization of non- nucleoside SARS-CoV-2 RdRp inhibitors	2023	Bioorganic and M
10	Brindani N., Vuong L.M., Acquistapace I.M., La Serra M.A., Ortega J.A., Veronesi M., Bertozzi S.M., Summa M., Giroto S., Bertorelli R., Armirotti A., Ganesan A.K., De Vivo M.	Design, Synthesis, In Vitro and In Vivo Characterization of CDC42 GTPase Interaction Inhibitors for the Treatment of Cancer	2023	Journal of Medicin
11	Shirzad Kebria M.R., Bono L., Khoshhal Salestan S., Armirotti A., Carzino R., Athanassiou A., Fragouli D.	Efficient removal of perfluorobutanesulfonic acid from water through a chitosan/polyethyleneimine xerogel	2023	Chemical Enginee

12	Castagnola V., Deleye L., Podestà A., Jaho E., Loiacono F., Debellis D., Trevisani M., Ciobanu D.Z., Armirotti A., Pisani F., Flahaut E., Vazquez E., Bramini M., Cesca F., Benfenati F.	Interactions of Graphene Oxide and Few-Layer Graphene with the Blood-Brain Barrier	2023	Nano Letters
13	Tolardo V., Romaldini A., Fumagalli F., Armirotti A., Veronesi M., Magri D., Sabella S., Athanassiou A., Fragouli D.	Polycarbonate nanoplastics and the in vitro assessment of their toxicological impact on liver functionality	2023	Environmental Sci
14	Pepe G., Capocci L., Marracino F., Realini N., Lenzi P., Martinello K., Bovier T.F., Bichell T.J., Scarselli P., Di Cicco C., Bowman A.B., Digilio F.A., Fucile S., Fornai F., Armirotti A., Parlato R., Di Pardo A., Maglione V.	Treatment with THI, an inhibitor of sphingosine-1-phosphate lyase, modulates glycosphingolipid metabolism and results therapeutically effective in experimental models of Huntington's disease	2023	Molecular Therap
15	Braccia C., Christopher J.A., Crook O.M., Breckels L.M., Queiroz R.M.L., Liessi N., Tomati V., Capurro V., Bandiera T., Baldassari S., Pedemonte N., Lilley K.S., Armirotti A.	CFTR Rescue by Lumacaftor (VX-809) Induces an Extensive Reorganization of Mitochondria in the Cystic Fibrosis Bronchial Epithelium	2022	Cells
16	Tuccinardi D., Di Mauro A., Lattanzi G., Rossini G., Monte L., Beato I., Spiezia C., Bravo M., Watanabe M., Soare A., Kyanvash S., Armirotti A., Bertozzi S.M., Gastaldelli A., Pedone C., Khazrai Y.M., Pozzilli P., Manfrini S.	An extra virgin olive oil-enriched chocolate spread positively modulates insulin-resistance markers compared with a palm oil-enriched one in healthy young adults: A double-blind, cross-over, randomised controlled trial	2022	Diabetes/Metabo
17	Marasca C., Mandrioli R., Sardella R., Vovk T., Armirotti A., Cavalli A., Serretti A., Protti M., Mercolini L.	Dried Volumetric Microsampling Approaches for the Therapeutic Drug Monitoring of Psychiatric Patients Undergoing Clozapine Treatment	2022	Frontiers in Psych
18	Munafò F., Donati E., Brindani N., Ottonello G., Armirotti A., De Vivo M.	Quercetin and luteolin are single-digit micromolar inhibitors of the SARS-CoV-2 RNA-dependent RNA polymerase	2022	Scientific Reports



19	Contardi M., Ayyoub A.M.M., Summa M., Kossvaki D., Fadda M., Liessi N., Armirotti A., Fragouli D., Bertorelli R., Athanassiou A.	Self-Adhesive and Antioxidant Poly(vinylpyrrolidone)/Alginate-Based Bilayer Films Loaded with <i>Malva sylvestris</i> Extracts as Potential Skin Dressings	2022	ACS Applied Bio M
20	Jahid S., Ortega J.A., Vuong L.M., Acquistapace I.M., Hachey S.J., Flesher J.L., La Serra M.A., Brindani N., La Sala G., Manigrasso J., Arencibia J.M., Bertozzi S.M., Summa M., Bertorelli R., Armirotti A., Jin R., Liu Z., Chen C.-F., Edwards R., Hughes C.C.W., De Vivo M., Ganesan A.K.	Structure-based design of CDC42 effector interaction inhibitors for the treatment of cancer	2022	Cell Reports
21	Schipani F., Manerba M., Marotta R., Poppi L., Gennari A., Rinaldi F., Armirotti A., Farabegoli F., Roberti M., Di Stefano G., Rocchia W., Giroto S., Tirelli N., Cavalli A.	The Mechanistic Understanding of RAD51 Defibrillation: A Critical Step in BRCA2-Mediated DNA Repair by Homologous Recombination	2022	International Jour
22	Felici A., Di Mascolo D., Ferreira M., Lauciello S., Bono L., Armirotti A., Pitchaimani A., Palange A.L., Decuzzi P.	Vascular-confined multi-passage discoidal nanoconstructs for the low-dose docetaxel inhibition of triple-negative breast cancer growth	2022	Nano Research
23	Trojanowska D.J., Suarato G., Braccia C., Armirotti A., Fiorentini F., Athanassiou A., Perotto G.	Wool Keratin Nanoparticle-Based Micropatterns for Cellular Guidance Applications	2022	ACS Applied Nano
24	Lunghi G., Carsana E.V., Loberto N., Cioccarelli L., Prioni S., Mauri L., Bassi R., Duga S., Straniero L., Asselta R., Soldà G., Di Fonzo A., Frattini E., Magni M., Liessi N., Armirotti A., Ferrari E., Samarani M., Aureli M.	$\beta$ -Glucocerebrosidase Deficiency Activates an Aberrant Lysosome-Plasma Membrane Axis Responsible for the Onset of Neurodegeneration	2022	Cells
25	Liessi N., Maragliano L., Castagnola V., Bramini M., Benfenati F., Armirotti A.	Isobaric Labeling Proteomics Allows a High-Throughput Investigation of Protein Corona Orientation	2021	Analytical Chemist

26	Braccia C., Liessi N., Armirotti A.	Quantification of Changes in Protein Expression Using SWATH Proteomics	2021	Methods in Molec
27	Braccia C., Castagnola V., Vázquez E., González V.J., Loiacono F., Benfenati F., Armirotti A.	The lipid composition of few layers graphene and graphene oxide biomolecular corona	2021	Carbon
28	Marasca C., Arana M.E.B., Protti M., Cavalli A., Mercolini L., Armirotti A.	Volumetric absorptive microsampling of blood for untargeted lipidomics	2021	Molecules
29	Antinori M.E., Contardi M., Suarato G., Armirotti A., Bertorelli R., Mancini G., Debellis D., Athanassiou A.	Advanced mycelium materials as potential self-growing biomedical scaffolds	2021	Scientific Reports
30	Di Mascolo D., Palange A.L., Primavera R., Macchi F., Catelani T., Piccardi F., Spanò R., Ferreira M., Marotta R., Armirotti A., Gallotti A.L., Galli R., Wilson C., Grant G.A., Decuzzi P.	Conformable hierarchically engineered polymeric micromeshes enabling combinatorial therapies in brain tumours	2021	Nature Nanotechn
31	Borgogno M., Savardi A., Manigrasso J., Turci A., Portioli C., Ottonello G., Bertozzi S.M., Armirotti A., Contestabile A., Cancedda L., De Vivo M.	Design, Synthesis, In Vitro and In Vivo Characterization of Selective NKCC1 Inhibitors for the Treatment of Core Symptoms in down Syndrome	2021	Journal of Medicin
32	Di Fruscia P., Carbone A., Bottegoni G., Berti F., Giacomina F., Ponzano S., Pagliuca C., Fiasella A., Pizzirani D., Ortega J.A., Nuzzi A., Tarozzo G., Mengatto L., Giampà R., Penna I., Russo D., Romeo E., Summa M., Bertorelli R., Armirotti A., Bertozzi S.M., Reggiani A., Bandiera T., Bertozzi F.	Discovery and SAR Evolution of Pyrazole Azabicyclo[3.2.1]octane Sulfonamides as a Novel Class of Non-Covalent N-Acylethanolamine-Hydrolyzing Acid Amidase (NAAA) Inhibitors for Oral Administration	2021	Journal of Medicin
33	Cortini M., Armirotti A., Columbaro M., Longo D.L., Di Pompo G., Cannas E., Maresca A., Errani C., Longhi A., Righi A., Carelli V., Baldini N., Avnet	Exploring metabolic adaptations to the acidic microenvironment of osteosarcoma cells unveils sphingosine 1-phosphate as a valuable therapeutic target	2021	Cancers

	S.			
34	Barone M., Rampelli S., Biagi E., Bertozzi S.M., Falchi F., Cavalli A., Armirotti A., Brigidi P., Turrone S., Candela M.	Searching for New Microbiome-Targeted Therapeutics through a Drug Repurposing Approach	2021	Journal of Medicin
35	Tocchetti A., Iorio M., Hamid Z., Armirotti A., Reggiani A., Donadio S.	Understanding the mechanism of action of nai-112, a lanthipeptide with potent antinociceptive activity	2021	Molecules
36	Liessi N., Pesce E., Braccia C., Bertozzi S.M., Giraud A., Bandiera T., Pedemonte N., Armirotti A.	Distinctive lipid signatures of bronchial epithelial cells associated with cystic fibrosis drugs, including Trikafta	2020	JCI Insight
37	Blanco M.E., Mayo O.B., Bandiera T., Tonelli D.D.P., Armirotti A.	LC-MS/MS analysis of twelve neurotransmitters and amino acids in mouse cerebrospinal fluid	2020	Journal of Neuros
38	Hamid Z., Armirotti A.	Traveling Wave Ion Mobility-Mass Spectrometry to Enhance the Detection of Low Abundance Features in Untargeted Lipidomics	2020	Methods in Molec
39	Liessi N., Pedemonte N., Armirotti A., Braccia C.	Proteomics and metabolomics for cystic fibrosis research	2020	International Jour
40	Haaranen M., Scuppa G., Tambalo S., Järvi V., Bertozzi S.M., Armirotti A., Sommer W.H., Bifone A., Hyytiä P.	Anterior insula stimulation suppresses appetitive behavior while inducing forebrain activation in alcohol-preferring rats	2020	Translational Psyc
41	Quilez-Molina A.I., Heredia-Guerrero J.A., Armirotti A., Paul U.C., Athanassiou A., Bayer I.S.	Comparison of physicochemical, mechanical and antioxidant properties of polyvinyl alcohol films containing green tealeaves waste extracts and discarded balsamic vinegar	2020	Food Packaging ar
42	Barca-Mayo O., Boender A.J., Armirotti A., De Pietri Tonelli D.	Deletion of astrocytic BMAL1 results in metabolic imbalance and shorter lifespan in mice	2020	GLIA

43	Caputo S., Di Martino S., Cilibrasi V., Tardia P., Mazzonna M., Russo D., Penna I., Summa M., Bertozzi S.M., Realini N., Margaroli N., Migliore M., Ottonello G., Liu M., Lansbury P., Armirotti A., Bertorelli R., Ray S.S., Skerlj R., Scarpelli R.	Design, Synthesis, and Biological Evaluation of a Series of Oxazolone Carboxamides as a Novel Class of Acid Ceramidase Inhibitors	2020	Journal of Medicin
44	Arencibia J.M., Brindani N., Franco-Ulloa S., Nigro M., Kuriappan J.A., Ottonello G., Bertozzi S.M., Summa M., Giroto S., Bertorelli R., Armirotti A., De Vivo M.	Design, Synthesis, Dynamic Docking, Biochemical Characterization, and in Vivo Pharmacokinetics Studies of Novel Topoisomerase II Poisons with Promising Antiproliferative Activity	2020	Journal of Medicin
45	Savardi A., Borgogno M., Narducci R., La Sala G., Ortega J.A., Summa M., Armirotti A., Bertorelli R., Contestabile A., De Vivo M., Cancedda L.	Discovery of a Small Molecule Drug Candidate for Selective NKCC1 Inhibition in Brain Disorders	2020	Chem
46	Visigalli D., Capodivento G., Basit A., Fernández R., Hamid Z., Pencová B., Gemelli C., Marubbi D., Pastorino C., Luoma A.M., Riekel C., Kirschner D.A., Schenone A., Fernández J.A., Armirotti A., Nobbio L.	Exploiting Sphingo- and Glycerophospholipid Impairment to Select Effective Drugs and Biomarkers for CMT1A	2020	Frontiers in Neuro
47	Gambardella G., Staiano L., Moretti M.N., De Cegli R., Fagnocchi L., Di Tullio G., Polletti S., Braccia C., Armirotti A., Zippo A., Ballabio A., De Matteis M.A., Di Bernardo D.	GADD34 is a modulator of autophagy during starvation	2020	Science Advances
48	Costantino F., Armirotti A., Carzino R., Gavioli L., Athanassiou A., Fragouli D.	In situ formation of SnO <sub>2</sub> nanoparticles on cellulose acetate fibrous membranes for the photocatalytic degradation of organic dyes	2020	Journal of Photoc Chemistry

49	Di Martino S., Tardia P., Cilibrasi V., Caputo S., Mazzonna M., Russo D., Penna I., Realini N., Margaroli N., Migliore M., Pizzirani D., Ottonello G., Bertozzi S.M., Armirotti A., Nguyen D., Sun Y., Bongarzone E.R., Lansbury P., Liu M., Skerlj R., Scarpelli R.	Lead Optimization of Benzoxazolone Carboxamides as Orally Bioavailable and CNS Penetrant Acid Ceramidase Inhibitors	2020	Journal of Medicin
50	Pace M., Colombi I., Falappa M., Freschi A., Bandarabadi M., Armirotti A., Encarnacion B.M., Adamantidis A.R., Amici R., Cerri M., Chiappalone M., Tucci V.	Loss of Snord116 alters cortical neuronal activity in mice: A preclinical investigation of Prader-Willi syndrome	2020	Human Molecular
51	Di Martino R.M.C., Bottegoni G., Seghetti F., Russo D., Penna I., De Simone A., Ottonello G., Mandrup Bertozzi S., Armirotti A., Bandiera T., Belluti F., Cavalli A.	Multitarget Compounds for Bipolar Disorder: From Rational Design to Preliminary Pharmacokinetic Evaluation	2020	ChemMedChem
52	Ortega J.A., Arencibia J.M., Minniti E., Byl J.A.W., Franco-Ulloa S., Borgogno M., Genna V., Summa M., Bertozzi S.M., Bertorelli R., Armirotti A., Minarini A., Sissi C., Osheroff N., De Vivo M.	Novel, Potent, and Druglike Tetrahydroquinazoline Inhibitor That Is Highly Selective for Human Topoisomerase II $\alpha$ over $\beta$	2020	Journal of Medicin
53	Garone M.G., Alfano V., Salvatori B., Braccia C., Peruzzi G., Colantoni A., Bozzoni I., Armirotti A., Rosa A.	Proteomics analysis of FUS mutant human motoneurons reveals altered regulation of cytoskeleton and other ALS-linked proteins via 3'UTR binding	2020	Scientific Reports
54	Marasca C., Protti M., Mandrioli R., Atti A.R., Armirotti A., Cavalli A., De Ronchi D., Mercolini L.	Whole blood and oral fluid microsampling for the monitoring of patients under treatment with antidepressant drugs	2020	Journal of Pharmaco Analysis
55	Hamid Z., Basit A., Pontis S., Piras F., Assogna F., Bossù P., Pontieri F.E., Stefani A., Spalletta G., Franceschi P., Reggiani A., Armirotti A.	Gender specific decrease of a set of circulating N-acylphosphatidyl ethanolamines (NAPEs) in the plasma of Parkinson's disease patients	2019	Metabolomics

56	Braccia C., Tomati V., Caci E., Pedemonte N., Armirotti A.	SWATH label-free proteomics for cystic fibrosis research	2019	Journal of Cystic F
57	Armirotti A., Tomati V., Matthes E., Veit G., Cholon D.M., Phuan P.-W., Braccia C., Guidone D., Gentzsch M., Lukacs G.L., Verkman A.S., Galietta L.J.V., Hanrahan J.W., Pedemonte N.	Bioactive Thymosin Alpha-1 Does Not Influence F508del-CFTR Maturation and Activity	2019	Scientific Reports
58	Carli S., Fioravanti G., Armirotti A., Ciarpella F., Prato M., Ottonello G., Salerno M., Scarpellini A., Perrone D., Marchesi E., Ricci D., Fadiga L.	A New Drug Delivery System Based on Tauroursodeoxycholic Acid and PEDOT	2019	Chemistry - A Euro
59	Bramini M., Chiacchiaretta M., Armirotti A., Rocchi A., Kale D.D., Martin C., Vázquez E., Bandiera T., Ferroni S., Cesca F., Benfenati F.	An Increase in Membrane Cholesterol by Graphene Oxide Disrupts Calcium Homeostasis in Primary Astrocytes	2019	Small
60	Moscattelli N., Lunetti P., Braccia C., Armirotti A., Pisanello F., De Vittorio M., Zara V., Ferramosca A.	Comparative proteomic analysis of proteins involved in bioenergetics pathways associated with human sperm motility	2019	International Jour
61	Boso F., Armirotti A., Taioli F., Ferrarini M., Nobbio L., Cavallaro T., Fabrizi G.M.	Deoxysphingolipids as candidate biomarkers for a novel SPTLC1 mutation associated with HSN-I	2019	Neurology: Genet
62	Gómez-Boronat M., Isorna E., Armirotti A., Delgado M.J., Piomelli D., De Pedro N.	Diurnal Profiles of N-Acylethanolamines in goldfish brain and gastrointestinal tract: Possible role of feeding	2019	Frontiers in Neuro
63	Vozella V., Basit A., Piras F., Realini N., Armirotti A., Bossù P., Assogna F., Sensi S.L., Spalletta G., Piomelli D.	Elevated plasma ceramide levels in post- menopausal women: A cross-sectional study	2019	Aging
64	Pons-Espinal M., Gasperini C., Marzi M.J., Braccia C., Armirotti A., Pöttsch A., Walker T.L., Fabel K., Nicassio F., Kempermann G., De Pietri Tonelli D.	MiR-135a-5p Is Critical for Exercise- Induced Adult Neurogenesis	2019	Stem Cell Reports
65	Braccia C., Espinal M.P., Pini M., De Pietri Tonelli D., Armirotti A.	A new SWATH ion library for mouse adult hippocampal neural stem cells	2018	Data in Brief

66	Hamid Z., Summa M., Armirotti A.	A Swath Label-Free Proteomics insight into the Faah <sup>-/-</sup> Mouse Liver	2018	Scientific Reports
67	Carli S., Trapella C., Armirotti A., Fantinati A., Ottonello G., Scarpellini A., Prato M., Fadiga L., Ricci D.	Biochemically Controlled Release of Dexamethasone Covalently Bound to PEDOT	2018	Chemistry - A Euro
68	Di Pardo A., Amico E., Basit A., Armirotti A., Joshi P., Neely M.D., Vuono R., Castaldo S., Digilio A.F., Scalabrì F., Pepe G., Elifani F., Madonna M., Jeong S.K., Park B.-M., D'Esposito M., Bowman A.B., Barker R.A., Maglione V.	Correction: Defective Sphingosine-1-phosphate metabolism is a druggable target in Huntington's disease (Scientific Reports DOI: 10.1038/s41598-017-05709-y)	2018	Scientific Reports
69	Chiacchiaretta M., Bramini M., Rocchi A., Armirotti A., Giordano E., Vázquez E., Bandiera T., Ferroni S., Cesca F., Benfenati F.	Graphene Oxide Upregulates the Homeostatic Functions of Primary Astrocytes and Modulates Astrocyte-to-Neuron Communication	2018	Nano Letters
70	Sondo E., Falchi F., Caci E., Ferrera L., Giacomini E., Pesce E., Tomati V., Mandrup Bertozzi S., Goldoni L., Armirotti A., Ravazzolo R., Cavalli A., Pedemonte N.	Pharmacological Inhibition of the Ubiquitin Ligase RNF5 Rescues F508del-CFTR in Cystic Fibrosis Airway Epithelia	2018	Cell Chemical Biol
71	Sasso O., Summa M., Armirotti A., Pontis S., De Mei C., Piomelli D.	The N-Acylethanolamine Acid Amidase Inhibitor ARN077 Suppresses Inflammation and Pruritus in a Mouse Model of Allergic Dermatitis	2018	Journal of Investig
72	Tomati V., Caci E., Ferrera L., Pesce E., Sondo E., Cholon D.M., Quinney N.L., Boyles S.E., Armirotti A., Ravazzolo R., Galiotta L.J.V., Gentzsch M., Pedemonte N.	Thymosin $\alpha$ -1 does not correct F508del-CFTR in cystic fibrosis airway epithelia	2018	JCI Insight
73	Altieri P., Murialdo R., Barisione C., Lazzarini E., Garibaldi S., Fabbi P., Ruggeri C., Borile S., Carbone F., Armirotti A., Canepa M., Ballestrero A., Brunelli C., Montecucco F., Ameri	5-fluorouracil causes endothelial cell senescence: potential protective role of glucagon-like peptide 1	2017	British Journal of

	P., Spallarossa P.			
74	Barca-Mayo O., Pons-Espinal M., Follert P., Armirotti A., Berdondini L., De Pietri Tonelli D.	Astrocyte deletion of Bmal1 alters daily locomotor activity and cognitive functions via GABA signalling	2017	Nature Communio
75	Giorgi A., Migliarini S., Galbusera A., Maddaloni G., Mereu M., Margiani G., Gritti M., Landi S., Trovato F., Bertozzi S.M., Armirotti A., Ratto G.M., De Luca M.A., Tonini R., Gozzi A., Pasqualetti M.	Brain-wide Mapping of Endogenous Serotonergic Transmission via Chemogenetic fMRI	2017	Cell Reports
76	Pardo A.D., Basit A., Armirotti A., Amico E., Castaldo S., Pepe G., Marracino F., Buttari F., Digilio A.F., Maglione V.	De novo synthesis of sphingolipids is defective in experimental models of Huntington's disease	2017	Frontiers in Neuro
77	Di Pardo A., Amico E., Basit A., Armirotti A., Joshi P., Neely D.M., Vuono R., Castaldo S., Digilio A.F., Scalabrì F., Pepe G., Elifani F., Madonna M., Jeong S.K., Park B.-M., D'Esposito M., Bowman A.B., Barker R.A., Maglione V.	Defective Sphingosine-1-phosphate metabolism is a druggable target in Huntington's disease	2017	Scientific Reports
78	De Simone A., Russo D., Ruda G.F., Micoli A., Ferraro M., Di Martino R.M.C., Ottonello G., Summa M., Armirotti A., Bandiera T., Cavalli A., Bottegoni G.	Design, Synthesis, Structure-Activity Relationship Studies, and Three-Dimensional Quantitative Structure-Activity Relationship (3D-QSAR) Modeling of a Series of O-Biphenyl Carbamates as Dual Modulators of Dopamine D3 Receptor and Fatty Acid Amide Hydrolase	2017	Journal of Medicin



79	Balbi C., Piccoli M., Barile L., Papait A., Armirotti A., Principi E., Reverberi D., Pascucci L., Becherini P., Varesio L., Mogni M., Coviello D., Bandiera T., Pozzobon M., Cancedda R., Bollini S.	First characterization of human amniotic fluid stem cell extracellular vesicles as a powerful paracrine tool endowed with regenerative potential	2017	Stem Cells Transla
80	Riccardi L., Arencibia J.M., Bono L., Armirotti A., Girotto S., De Vivo M.	Lid domain plasticity and lipid flexibility modulate enzyme specificity in human monoacylglycerol lipase	2017	Biochimica et Biop Cell Biology of Lip
81	Merrill C.B., Basit A., Armirotti A., Jia Y., Gall C.M., Lynch G., Piomelli D.	Patch clamp-assisted single neuron lipidomics	2017	Scientific Reports
82	Ortega J.A., Arencibia J.M., La Sala G., Borgogno M., Bauer I., Bono L., Braccia C., Armirotti A., Girotto S., Ganesan A., De Vivo M.	Pharmacophore Identification and Scaffold Exploration to Discover Novel, Potent, and Chemically Stable Inhibitors of Acid Ceramidase in Melanoma Cells	2017	Journal of Medicin
83	Capodivento G., Visigalli D., Garnero M., Fancellu R., Ferrara M.D., Basit A., Hamid Z., Pastore V.P., Garibaldi S., Armirotti A., Mancardi G., Serrati C., Capello E., Schenone A., Nobbio L.	Sphingomyelin as a myelin biomarker in CSF of acquired demyelinating neuropathies	2017	Scientific Reports
84	Pons-Espinal M., de Luca E., Marzi M.J., Beckervordersandforth R., Armirotti A., Nicassio F., Fabel K., Kempermann G., De Pietri Tonelli D.	Synergic Functions of miRNAs Determine Neuronal Fate of Adult Neural Stem Cells	2017	Stem Cell Reports
85	Basit A., Pontis S., Piomelli D., Armirotti A.	Ion mobility mass spectrometry enhances low-abundance species detection in untargeted lipidomics	2016	Metabolomics
86	Falchi F., Bertozzi S.M., Ottonello G., Ruda G.F., Colombano G., Fiorelli C., Martucci C., Bertorelli R., Scarpelli R., Cavalli A., Bandiera T., Armirotti A.	Kernel-Based, Partial Least Squares Quantitative Structure-Retention Relationship Model for UPLC Retention Time Prediction: A Useful Tool for Metabolite Identification	2016	Analytical Chemis

87	Hajjali H., Summa M., Russo D., Armirotti A., Brunetti V., Bertorelli R., Athanassiou A., Mele E.	Alginate-lavender nanofibers with antibacterial and anti-inflammatory activity to effectively promote burn healing	2016	Journal of Material
88	Brindisi M., Maramai S., Gemma S., Brogi S., Grillo A., Di Cesare Mannelli L., Gabellieri E., Lamponi S., Saponara S., Gorelli B., Tedesco D., Bonfiglio T., Landry C., Jung K.-M., Armirotti A., Luongo L., Ligresti A., Piscitelli F., Bertucci C., Dehouck M.- P., Campiani G., Maione S., Ghelardini C., Pittaluga A., Piomelli D., Di Marzo V., Butini S.	Development and Pharmacological Characterization of Selective Blockers of 2- Arachidonoyl Glycerol Degradation with Efficacy in Rodent Models of Multiple Sclerosis and Pain	2016	Journal of Medicin
89	Sasso O., Pontis S., Armirotti A., Cardinali G., Kovacs D., Migliore M., Summa M., Moreno-Sanz G., Picardo M., Piomelli D.	Endogenous N- Acyl taurines regulate skin wound healing	2016	Proceedings of the Sciences of the Un
90	Rocchi A., Milioto C., Parodi S., Armirotti A., Borgia D., Pellegrini M., Urciuolo A., Molon S., Morbidoni V., Marabita M., Romanello V., Gatto P., Blaauw B., Bonaldo P., Sambataro F., Robins D.M., Lieberman A.P., Sorarù G., Vergani L., Sandri M., Pennuto M.	Glycolytic-to-oxidative fiber-type switch and mTOR signaling activation are early- onset features of SBMA muscle modified by high-fat diet	2016	Acta Neuropathol
91	Bramini M., Sacchetti S., Armirotti A., Rocchi A., Vázquez E., León Castellanos V., Bandiera T., Cesca F., Benfenati F.	Graphene Oxide Nanosheets Disrupt Lipid Composition, Ca <sup>2+</sup> Homeostasis, and Synaptic Transmission in Primary Cortical Neurons	2016	ACS Nano
92	Migliore M., Habrant D., Sasso O., Albani C., Bertozzi S.M., Armirotti A., Piomelli D., Scarpelli R.	Potent multitarget FAAH-COX inhibitors: Design and structure-activity relationship studies	2016	European Journal

93	Migliore M., Pontis S., Fuentes de Arriba A.L., Realini N., Torrente E., Armirotti A., Romeo E., Di Martino S., Russo D., Pizzirani D., Summa M., Lanfranco M., Ottonello G., Busquet P., Jung K.-M., Garcia-Guzman M., Heim R., Scarpelli R., Piomelli D.	Second-Generation Non-Covalent NAAA Inhibitors are Protective in a Model of Multiple Sclerosis	2016	Angewandte Chem
94	Basit A., Piomelli D., Armirotti A.	Rapid evaluation of 25 key sphingolipids and phosphosphingolipids in human plasma by LC-MS/MS	2015	Analytical and Bio
95	Prati F., De Simone A., Armirotti A., Summa M., Pizzirani D., Scarpelli R., Bertozzi S.M., Perez D.I., Andrisano V., Perez-Castillo A., Monti B., Massenzio F., Polito L., Racchi M., Sabatino P., Bottegoni G., Martinez A., Cavalli A., Bolognesi M.L.	3,4-Dihydro-1,3,5-triazin-2(1H)-ones as the First Dual BACE-1/GSK-3 $\beta$ Fragment Hits against Alzheimer's Disease	2015	ACS Chemical Neu
96	Ribeiro A., Pontis S., Mengatto L., Armirotti A., Chiurchiù V., Capurro V., Fiasella A., Nuzzi A., Romeo E., Moreno-Sanz G., Maccarrone M., Reggiani A., Tarzia G., Mor M., Bertozzi F., Bandiera T., Piomelli D.	A Potent Systemically Active N-Acylethanolamine Acid Amidase Inhibitor that Suppresses Inflammation and Human Macrophage Activation	2015	ACS Chemical Biol
97	Romeo E., Ponzano S., Armirotti A., Summa M., Bertozzi F., Garau G., Bandiera T., Piomelli D.	Activity-Based Probe for N-Acylethanolamine Acid Amidase	2015	ACS Chemical Biol
98	Pizzirani D., Bach A., Realini N., Armirotti A., Mengatto L., Bauer I., Giroto S., Pagliuca C., De Vivo M., Summa M., Ribeiro A., Piomelli D.	Benzoxazolone carboxamides: Potent and systemically active inhibitors of intracellular acid ceramidase	2015	Angewandte Chem
99	Justinova Z., Panlilio L.V., Moreno-Sanz G., Redhi G.H., Auber A., Secci M.E., Mascia P., Bandiera T., Armirotti A., Bertorelli R., Chefer S.I., Barnes C., Yasar S., Piomelli D.,	Effects of Fatty Acid Amide Hydrolase (FAAH) Inhibitors in Non-Human Primate Models of Nicotine Reward and Relapse	2015	Neuropsychophar

	Goldberg S.R.			
100	Greco R., Bandiera T., Mangione A.S., Demartini C., Siani F., Nappi G., Sandrini G., Guijarro A., Armirotti A., Piomelli D., Tassorelli C.	Effects of peripheral FAAH blockade on NTG-induced hyperalgesia - Evaluation of URB937 in an animal model of migraine	2015	Cephalalgia
101	Tomati V., Sondo E., Armirotti A., Caci E., Pesce E., Marini M., Gianotti A., Ju Jeon Y., Cilli M., Pistorio A., Mastracci L., Ravazzolo R., Scholte B., Ronai Z., Galiotta L.J.V., Pedemonte N.	Genetic Inhibition of the Ubiquitin Ligase Rnf5 Attenuates Phenotypes Associated to F508del Cystic Fibrosis Mutation	2015	Scientific Reports
102	Furlotti G., Alisi M.A., Cazzolla N., Dragone P., Durando L., Magarò G., Mancini F., Mangano G., Ombrato R., Vitiello M., Armirotti A., Capurro V., Lanfranco M., Ottonello G., Summa M., Reggiani A.	Hit Optimization of 5-Substituted-N-(piperidin-4-ylmethyl)-1H-indazole-3-carboxamides: Potent Glycogen Synthase Kinase-3 (GSK-3) Inhibitors with in Vivo Activity in Model of Mood Disorders	2015	Journal of Medicin
103	Palermo G., Bauer I., Campomanes P., Cavalli A., Armirotti A., Girotto S., Rothlisberger U., De Vivo M.	Keys to Lipid Selection in Fatty Acid Amide Hydrolase Catalysis: Structural Flexibility, Gating Residues and Multiple Binding Pockets	2015	PLoS Computatio
104	Prati F., De Simone A., Bisignano P., Armirotti A., Summa M., Pizzirani D., Scarpelli R., Perez D.I., Andrisano V., Perez-Castillo A., Monti B., Massenzio F., Polito L., Racchi M., Favia A.D., Bottegoni G., Martinez A., Bolognesi M.L., Cavalli A.	Multitarget drug discovery for Alzheimer's disease: Triazinones as BACE-1 and GSK-3 $\beta$ inhibitors	2015	Angewandte Chem
105	Sasso O., Migliore M., Habrant D., Armirotti A., Albani C., Summa M., Moreno-Sanz G., Scarpelli R., Piomelli D.	Multitarget Fatty acid amide hydrolase/cyclooxygenase blockade suppresses intestinal inflammation and protects against nonsteroidal anti-inflammatory drug-dependent	2015	FASEB Journal

		gastrointestinal damage		
106	Dotsey E.Y., Jung K.-M., Basit A., Wei D., Daglian J., Vacondio F., Armirotti A., Mor M., Piomelli D.	Peroxide-dependent MGL sulfenylation regulates 2-AG-mediated endocannabinoid signaling in brain neurons	2015	Chemistry and Bio
107	Barthel M.J., Angeloni I., Petrelli A., Avellini T., Scarpellini A., Bertoni G., Armirotti A., Moreels I., Pellegrino T.	Synthesis of Highly Fluorescent Copper Clusters Using Living Polymer Chains as Combined Reducing Agents and Ligands	2015	ACS Nano
108	Armirotti A., Basit A., Realini N., Caltagirone C., Bossù P., Spalletta G., Piomelli D.	Sample preparation and orthogonal chromatography for broad polarity range plasma metabolomics: Application to human subjects with neurodegenerative dementia	2014	Analytical Biochem
109	Fiasella A., Nuzzi A., Summa M., Armirotti A., Tarozzo G., Tarzia G., Mor M., Bertozzi F., Bandiera T., Piomelli D.	3-Aminoazetid-2-one derivatives as N-acylethanolamine acid amidase (NAAA) inhibitors suitable for systemic administration	2014	ChemMedChem
110	Tinoco A.B., Armirotti A., Isorna E., Delgado M.J., Piomelli D., De Pedro N.	Role of oleoylethanolamide as a feeding regulator in goldfish	2014	Journal of Experim
111	Moreno-Sanz G., Barrera B., Armirotti A., Bertozzi S.M., Scarpelli R., Bandiera T., Prieto J.G., Duranti A., Tarzia G., Merino G., Piomelli D.	Structural determinants of peripheral O-arylcarbamate FAAH inhibitors render them dual substrates for Abcb1 and Abcg2 and restrict their access to the brain	2014	Pharmacological P
112	Vitale R., Ottonello G., Petracca R., Bertozzi S.M., Ponzano S., Armirotti A., Berteotti A., Dionisi M., Cavalli A., Piomelli D., Bandiera T., Bertozzi F.	Synthesis, structure-activity, and structure-stability relationships of 2-substituted-n-(4-oxo-3-oxetanyl) n-acylethanolamine acid amidase (NAAA) inhibitors	2014	ChemMedChem
113	Cardinali B., Lunardi G., Millo E., Armirotti A., Damonte G., Profumo A., Gori S., Iacono G., Levaggi A., Del Mastro L.	Trastuzumab quantification in serum: A new, rapid, robust ELISA assay based on a mimetic peptide that specifically recognizes trastuzumab	2014	Analytical and Bio

114	Realini N., Solorzano C., Pagliuca C., Pizzirani D., Armirotti A., Luciani R., Costi M.P., Bandiera T., Piomelli D.	Discovery of highly potent acid ceramidase inhibitors with in vitro tumor chemosensitizing activity	2013	Scientific Reports
115	Ponzano S., Bertozzi F., Mengatto L., Dionisi M., Armirotti A., Romeo E., Berteotti A., Fiorelli C., Tarozzo G., Reggiani A., Duranti A., Tarzia G., Mor M., Cavalli A., Piomelli D., Bandiera T.	Synthesis and structure-activity relationship (SAR) of 2-methyl-4-oxo-3-oxetanylcabamic acid esters, a class of potent N-acylethanolamine acid amidase (NAAA) inhibitors	2013	Journal of Medicin
116	Armirotti A., Romeo E., Ponzano S., Mengatto L., Dionisi M., Karacsonyi C., Bertozzi F., Garau G., Tarozzo G., Reggiani A., Bandiera T., Tarzia G., Mor M., Piomelli D.	$\beta$ -Lactones inhibit N -acylethanolamine acid amidase by S-acylation of the catalytic N-terminal cysteine	2012	ACS Medicinal Che
117	Fu J., Bottegoni G., Sasso O., Bertorelli R., Rocchia W., Masetti M., Guijarro A., Lodola A., Armirotti A., Garau G., Bandiera T., Reggiani A., Mor M., Cavalli A., Piomelli D.	A catalytically silent FAAH-1 variant drives anandamide transport in neurons	2012	Nature Neuroscie
118	Sasso O., Bertorelli R., Bandiera T., Scarpelli R., Colombano G., Armirotti A., Moreno-Sanz G., Reggiani A., Piomelli D.	Peripheral FAAH inhibition causes profound antinociception and protects against indomethacin-induced gastric lesions	2012	Pharmacological P
119	Pedemonte N., Tomati V., Sondo E., Caci E., Millo E., Armirotti A., Damonte G., Zegarra-Moran O., Galietta L.J.V.	Dual activity of aminoarylthiazoles on the trafficking and gating defects of the cystic fibrosis transmembrane conductance regulator chloride channel caused by cystic fibrosis mutations	2011	Journal of Biologic
120	Adriano E., Garbati P., Damonte G., Salis A., Armirotti A., Balestrino M.	Searching for a therapy of creatine transporter deficiency: Some effects of creatine ethyl ester in brain slices in vitro	2011	Neuroscience
121	Armirotti A., Damonte G.	Achievements and perspectives of top-down proteomics	2010	Proteomics

122	Parakkottil Chothi M., Duncan G.A., Armirotti A., Abergel C., Gurnon J.R., Van Etten J.L., Bernardi C., Damonte G., Tonetti M.	Identification of an L-rhamnose synthetic pathway in two nucleocytoplasmic large DNA viruses	2010	Journal of Virology
123	Armirotti A.	Bottom-up proteomics	2009	Current Analytical
124	Armirotti A., Damonte G., Pozzolini M., Mussino F., Cerrano C., Salis A., Benatti U., Giovine M.	Primary structure and post-translational modifications of silicatein beta from the marine sponge <i>Petrosia ficiformis</i> (Poiret, 1789)	2009	Journal of Proteom
125	Armirotti A., Benatti U., Damonte G.	Top-down proteomics with a quadrupole time-of-flight mass spectrometer and collision-induced dissociation	2009	Rapid Communica
126	Lunardi G., Armirotti A., Nicodemo M., Cavallini L., Damonte G., Vannozi M.O., Venturini M.	Comparison of temsirolimus pharmacokinetics in patients with renal cell carcinoma not receiving dialysis and those receiving hemodialysis: A case series	2009	Clinical Therapeut
127	Mukhopadhyay R., Bisacchi D., Zhou Y., Armirotti A., Bordo D.	Structural Characterization of the As/Sb Reductase LmACR2 from <i>Leishmania major</i>	2009	Journal of Molecu
128	Ottaggio L., Bestoso F., Armirotti A., Balbi A., Damonte G., Mazzei M., Sancandi M., Miele M.	Taxanes from shells and leaves of <i>Corylus avellana</i>	2008	Journal of Natural
129	Lunardi G., Vannozi M.O., Armirotti A., Nicodemo M., Venturini M., Cavallini L.	Temsirolimus in patients with renal cancer on hemodialysis	2008	Journal of Clinical
130	Armirotti A., Scapolla C., Benatti U., Damonte G.	Electrospray ionization ion trap multiple-stage mass spectrometric fragmentation pathways of leucine and isoleucine: An ab initio computational study	2007	Rapid Communica
131	Armirotti A., Millo E., Damonte G.	How to Discriminate Between Leucine and Isoleucine by Low Energy ESI-TRAP MSn	2007	Journal of the Am Spectrometry
132	Piccini A., Zanusso G., Borghi R., Noviello C., Monaco S., Russo R., Damonte G., Armirotti A., Gelati M., Giordano R., Zambenedetti P., Russo	Association of a presenilin 1 S170F mutation with a novel Alzheimer disease molecular phenotype	2007	Archives of Neuro

	C., Ghetti B., Tabaton M.			
133	Massone S., Argellati F., Passalacqua M., Armirotti A., Melone L., d'Abramo C., Marinari U.M., Domenicotti C., Pronzato M.A., Ricciarelli R.	Downregulation of myosin II-B by siRNA alters the subcellular localization of the amyloid precursor protein and increases amyloid- $\beta$ deposition in N2a cells	2007	Biochemical and Biophysical Communications
134	Millo E., Pietra G., Armirotti A., Vacca P., Mingari M.C., Moretta L., Damonte G.	Purification and HPLC-MS analysis of a naturally processed HCMV-derived peptide isolated from the HEK-293T/HLA-E+/U140+ cell transfectants and presented at the cell surface in the context of HLA-E	2007	Journal of Immunology
135	De Chiara G., Marcocci M.E., Torcia M., Lucibello M., Rosini P., Bonini P., Higashimoto Y., Damonte G., Armirotti A., Amodei S., Palamara A.T., Russo T., Garaci E., Cozzolino F.	Bcl-2 phosphorylation by p38 MAPK: Identification of target sites and biologic consequences	2006	Journal of Biological Chemistry
136	Bestoso F., Ottaggio L., Armirotti A., Balbi A., Damonte G., Degan P., Mazzei M., Cavalli F., Ledda B., Miele M.	In vitro cell cultures obtained from different explants of <i>Corylus avellana</i> produce Taxol and taxanes	2006	BMC Biotechnology
137	Armirotti A., Benatti U., Miele M., Damonte G.	Matrix-assisted laser desorption/ionization mass spectrometry of taxanes	2005	Rapid Communications in Mass Spectrometry
138	Basile G., Tagliatela-Scafati O., Damonte G., Armirotti A., Bruzzone S., Guida L., Franco L., Usai C., Fattorusso E., De Flora A., Zocchi E.	ADP-ribosyl cyclases generate two unusual adenine homodinucleotides with cytotoxic activity on mammalian cells	2005	Proceedings of the National Academy of Sciences of the United States of America
139	Piccini A., Russo C., Gliozzi A., Relini A., Vitali A., Borghi R., Giliberto L., Armirotti A., D'Arrigo C., Bachi A., Cattaneo A., Canale C., Torrassa S., Saido T.C., Markesbery W., Gambetti P., Tabaton M.	$\beta$ -amyloid is different in normal aging and in Alzheimer disease	2005	Journal of Biological Chemistry

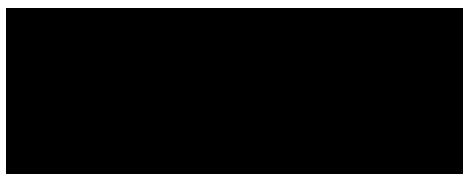


140	Spallarossa A., Forlani F., Carpen A., Armirotti A., Pagani S., Bolognesi M., Bordo D.	The "Rhodanese" Fold and Catalytic Mechanism of 3-Mercaptopyruvate Sulfurtransferases: Crystal Structure of SseA from Escherichia coli	2004	Journal of Molecu
141	Tonetti M., Zanardi D., Gurnon J.R., Fruscione F., Armirotti A., Damonte G., Sturla L., De Flora A., Van Etten J.L.	Paramecium bursaria Chlorella virus 1 encodes two enzymes involved in the biosynthesis of GDP-L-fucose and GDP-D- rhamnose	2003	Journal of Biologic

### **Participation to Scientific Societies**

- Italian Mass Spectrometry Society (IMaSS), 2022 to present **President**
- Italian Mass Spectrometry Society (IMaSS), 2019-2022 **Vice-President**
- Italian Mass Spectrometry Society (IMaSS), 2016-2019 **Member of the Board of Directors**
- Italian coordinator of the COVID-19 Mass Spectrometry Coalition (<https://covid19-msc.org/>)

I declare that all the information reported in the present document are accurate and true. I authorize the use of my personal data.



**Andrea Armirotti, Ph.D.**