

Classificazione delle pubblicazioni:

BD = Biomarker discovery

SD = Sistemi diagnostici

FT = Food Technology

PUBBLICAZIONI 2015

Distinctive Anthocyanin Accumulation Responses to High Temperatures and Natural UV Radiation of Two Field-grown (*Vitis vinifera* L.) Cultivar. Fernandes de Oliveira A.*, Mercenaro L., Del Caro A., Pretti L., Nieddu G. 2015. *Molecules* – (Accepted for Publication)

BD

Differences in the peptide profile of raw and pasteurised ovine milk cheese and implications for its bioactive potential. Pisanu S., Pagnozzi D., Pes M., Pirisi A., Roggio T., Uzzau S., Addis M.F. 2015. *International Dairy Journal* – 42, 26-33.

BD, SD, FT

PUBBLICAZIONI 2014

Insights on the relaxation of liposomes encapsulating paramagnetic Ln-based complexes. Mulas G., Ferrauto G., Dastrù W., Anedda R., Aime S., Terreno E. 2014. *Magnetic Resonance in Medicine*. In press. DOI:10.1002/mrm.25412.

SD

Addressing marketplace gilthead sea bream (*Sparus aurata* L.) differentiation by 1H NMR-based lipid fingerprinting. Melis R., Cappuccinelli R., Roggio T., Anedda R. 2014. *Food Research International*. 63:258-264.

FT, BD

Magnetic resonance analysis of dairy processing: suitable tools for the dairy industry. Book Chapter. Anedda R. 2014. In press. In *Magnetic Resonance in Food Science: Defining Food by Magnetic Resonance*, RSC, Cambridge, UK.

FT

A straightforward and efficient analytical pipeline for metaproteome characterization. Tanca A., Palomba A., Pisanu S., Deligios M., Fraumene C., Manghina V., Pagnozzi D., Addis MF., Uzzau S. 2014. *Microbiome*. 2(1):49. doi: 10.1186/s40168-014-0049-2.

BD

Effect of wine barrel ageing or sapa addition on total polyphenol content and antioxidant activities of some Italian craft beers. Sanna V., Pretti L. 2014. *International Journal of Food Science & Technology*

FT

Analysis of the interactome of ribosomal protein19 mutants. Caterino M., Aspesi A., Pavesi E., Imperlini E., Pagnozzi D., Ingenito L., Santoro C., Dianzani I., Ruoppolo M. 2014. *Proteomics*. doi: 10.1002/pmic.201300513.

BD

Impact of three commercial feed formulations on farmed gilthead sea bream (*Sparus aurata*, L.) metabolism as inferred from liver and blood serum proteomics. Ghisaura S., Anedda R., Pagnozzi D., Biosi G., Spada S., Bonaglini E., Cappuccinelli R., Roggio T., Uzzau S., Addis M.F. 2014. *Proteome Science*. 12 (1), 1-18.

BD

Critical comparison of sample preparation strategies for shotgun proteomic analysis of formalin-fixed, paraffin-embedded samples: insights from liver tissue. Tanca A., Abbondio M., Pisanu S., Pagnozzi D., Uzzau S., Addis M.F. 2014. *Clinical Proteomics* 11 (1), 1-12.

BD

High-quality purification of Echinococcus granulosus Ag5 and evaluation of its immunodiagnostic performance. Pagnozzi D., Biossa G., Addis M.F., Mastrandrea S., Masala G., Uzzau S. 2014. PLoS ONE 9 (8), e104962.

SD

Effect of whey concentration on protein recovery in fresh ovine Ricotta cheese. Salvatore E., Pes M., Falchi G., Pagnozzi D., Furesi S., Fiori M., Roggio T., Addis M.F., Pirisi A. 2014. Journal of Dairy Science 97, 8, 4686–4694.

BD, FT

Proteomic profiling of sea bass muscle by two-dimensional gel electrophoresis and tandem mass spectrometry. Terova G, Pisanu S, Roggio T, Saroglia M, Preziosa E, Addis MF. 2014. Fish Physiology and Biochemistry 40: 311-322.

BD, FT

A novel method for the determination of ascorbic acid and antioxidant capacity in Opuntia ficus indica using in vivo microdialysis. Pretti L, Bazzu G, Serra PA, Nieddu G. 2014. Food Chemistry 147, (15): 131–137.

FT

Biometric and metabolic profiles associated to different rearing conditions in offshore farmed gilthead sea bream (*Sparus aurata* L.). Melis R. and Anedda R. 2014. Electrophoresis, 35(11):1590-1598 DOI: 10.1002/elps.201300548.

BD, FT

PUBBLICAZIONI 2013

Impact of different sequence database on metaproteome analysis; insights from a lab-assembled microbial mixture. Tanca A, Palomba A, Deligios M, Cubeddu T, Fraumene C, Biossa G, Pagnozzi D, Addis MF, Uzzau S. 2013. PloS one 8 (12), e82981.

BD

Production and release of immune defense proteins by mammary epithelial cells following Streptococcus uberis infection of sheep. Addis MF, Pisanu S, Marogna G, Cubeddu T, Pagnozzi D, Cacciotto C, Campesi F, Schianchi G, Rocca S, Uzzau S. 2013. Infection and Immunity 81: 3182-3197.

BD, SD

Comparison of detergent-based sample preparation workflows for LTQ-Orbitrap analysis of the Escherichia coli proteome. Tanca A, Biossa G, Pagnozzi D, Addis MF, Uzzau S. 2013. Proteomics 13: 2597-2607.

BD

Proteomic characterization of hepatitis C eradication: enzyme switch in the healing liver. Babudieri S, Soddu A, Nieddu P, Tanca A, Madeddu G, Addis MF, Pagnozzi D, Cossu-Rocca P, Massarelli G, Dore MP, Uzzau S, Mura MS. 2013. Journal of Clinical Virology 57: 274-278.

BD, SD

High throughput genomic and proteomic technologies in the fight against infectious diseases. Tanca A, Deligios M, Addis MF, Uzzau S. 2013. Journal of Infection in Developing Countries 7: 182-190.

BD, SD

Mycoplasma agalactiae MAG5040 is a Mg²⁺-Dependent, sugar-nonspecific nuclease recognised by the host humoral response during natural infection. Cacciotto C, Addis MF, Coradduzza E, Carcangiu L, Nuvoli AM, Tore G, Dore GM, Pagnozzi D, Uzzau S, Chessa B, Pittau M, Alberti A. 2013. PLoS ONE 8: e57775.

BD, SD

The secretome signature of colon cancer cell lines. Imperlini E, Colavita I, Caterino M, Mirabelli P, Pagnozzi D, Del Vecchio L, Di Noto R, Ruoppolo M, Orrù S. 2013. Journal of Cell Biochemistry 114: 2577-87.

BD

Genetic variants regulating immune cell levels in health and disease. Orrù V, Steri M, Sole G, Sidore C, Viridis F, Dei M, Lai S, Zoledziewska M, Busonero F, Mulas A, Floris M, Mentzen WI, Urru SA, Olla S, Marongiu M, Piras MG, Lobina M, Maschio A, Pitzalis M, Urru MF, Marcelli M, Cusano R, Deidda F, Serra V, Oppo M, Pilu R, Reinier F, Berutti R, Pireddu L, Zara I, Porcu E, Kwong A, Brennan C, TARRIER B, Lyons R, Kang HM, Uzzau S, Atzeni R, Valentini M, Firinu D, Leoni L, Rotta G, Naitza S, Angius A, Congia M, Whalen MB, Jones CM, Schlessinger D, Abecasis GR, Fiorillo E, Sanna S, Cucca F. Cell 155:242-56.

BD

Low-pass DNA sequencing of 1200 Sardinians reconstructs European Y-chromosome phylogeny.

Francalacci P, Morelli L, Angius A, Berutti R, Reinier F, Atzeni R, Pilu R, Busonero F, Maschio A, Zara I, Sanna D, Useli A, Urru MF, Marcelli M, Cusano R, Oppo M, Zoledziewska M, Pitzalis M, Deidda F, Porcu E, Poddie F, Kang HM, Lyons R, TARRIER B, Gresham JB, Li B, Tofanelli S, Alonso S, Dei M, Lai S, Mulas A, Whalen MB, Uzzau S, Jones C, Schlessinger D, Abecasis GR, Sanna S, Sidore C, Cucca F. Science 341(6145):565-9.

BD

Farmed and Wild Fish. In: Proteomics in Foods: Principles and Applications. Addis MF. 2013. Fidel Toldrá and Leo M.L. Nollet, Editors; Springer, New York.

BD, FT

A study on relationships between durum wheat semolina properties, technological mixing parameters and the properties of dough after mixing Vinci P, Fois S, Parente E, Roggio T, Catzeddu P. 2013.

International Journal of Food Science & Technology 48: 2541–2550.

FT

A new magnetic resonance imaging approach for discriminating Sardinian sheep milk cheese made from heat-treated or raw milk. Mulas G, Roggio T, Uzzau S, Anedda R. 2013. Journal of Dairy Science 96: 7393-7403.

BD, FT

Multidisciplinary analytical investigation of phospholipids and triglycerides in offshore farmed gilthead sea bream (*Sparus aurata*) fed commercial diets. Anedda R, Piga C, Santercole V, Spada S, Bonaglini E, Cappuccinelli R, Mulas G, Roggio T, Uzzau S. 2013. Food Chemistry 138: 1135-1144.

BD, FT

PUBBLICAZIONI 2012

Evaluation of the suitability of archival Bouin-fixed paraffin-embedded tissue specimens to proteomic investigation. Tanca A, Addis MF, Simula MP, Pagnozzi D, Biosa G, Pisanu S, Garziera M, Cannizzaro R, Canzonieri V, De Re V, Uzzau S. 2012. Electrophoresis 33: 1375-84.

BD

2D DIGE/MS to investigate the impact of slaughtering techniques on postmortem integrity of fish filet proteins Addis MF, Pisanu S, Preziosa E, Bernardini G, Pagnozzi D, Roggio T, Uzzau S, Saroglia M, Terova G. 2012. *Journal of Proteomics* 75: 3654-64.

BD, SD, FT

Characterization of sheep milk fat globule proteins by two-dimensional polyacrylamide gel electrophoresis/mass spectrometry and generation of a reference map. Pisanu S, Ghisaura S, Pagnozzi D, Falchi G, Biossa G, Tanca A, Roggio T, Uzzau S, Addis MF. 2012. *International Dairy Journal* 24: 78-86.

BD, FT

Setting proteins free: progresses and achievements in proteomics of formalin-fixed, paraffin-embedded tissues. Tanca A, Pagnozzi D, Addis MF. 2012. [Review]. *Proteomics Clinical Applications* 6: 7–21.

BD

Comparability of differential proteomics data generated from paired archival fresh-frozen and formalin-fixed samples by GeLC-MS/MS and spectral counting. Tanca A, Pagnozzi D, Burrai GP, Polinas M, Uzzau S, Antuofermo E, Addis MF. 2012. *Journal of Proteomics* 77: 561-76.

BD

Characterization of size and composition of milk fat globules from Sarda and Saanen dairy goats. Pisanu S, Marogna G, Pagnozzi D, Piccinini M, Leo G, Tanca A, Roggio AM, Roggio T, Uzzau S, Addis MF. 2013. *Small Ruminant Research* 109: 141-151.

BD, FT

Application of 2-D DIGE to formalin-fixed diseased tissue samples from hospital repositories: results from four case studies. Tanca A, Addis MF, Simula MP, Pagnozzi D, Biossa G, Pisanu S, Garziera M, Cannizzaro R, Canzonieri V, De Re V, Uzzau S. 2013. *Proteomics Clinical Applications* 7:252-63.

BD

LGI1 microdeletion in autosomal dominant lateral temporal epilepsy. Fanciulli M, Santulli L, Errichiello L, Barozzi C, Tomasi L, Rigon L, Cubeddu T, de Falco A, Rampazzo A, Michelucci R, Uzzau S, Striano S, de Falco FA, Striano P, Nobile C. *Neurology* 78(17):1299-303.

BD

A genome-wide association scan on the levels of markers of inflammation in Sardinians reveals associations that underpin its complex regulation. Naitza S, Porcu E, Steri M, Taub DD, Mulas A, Xiao X, Strait J, Dei M, Lai S, Busonero F, Maschio A, Usala G, Zoledziewska M, Sidore C, Zara I, Pitzalis M, Loi A, Virdis F, Piras R, Deidda F, Whalen MB, Crisponi L, Concas A, Podda C, Uzzau S, Scheet P, Longo DL, Lakatta E, Abecasis GR, Cao A, Schlessinger D, Uda M, Sanna S, Cucca F. *PLoS Genetics* 8(1):e1002480.

BD

Antioxidant activity of supercritical carbon dioxide extracts of *Salvia desoleana* on two human endothelial cell models. Posadino AM, Porcu MC, Marongiu B, Cossu A, Piras A., Porcedda S., Falconieri D, Cappuccinelli R, Biossa G., Pintus GF, Pretti L. 2012. *Food Research International* 46 (1): 354–359

BD

Effects of the fermentation process on gas-cell size two-dimensional distribution and rheological characteristics of durum-wheat-based doughs. Fois S, Fadda C, Tonelli R, Sanna M, Urgeghe P P, Roggio T, Catzeddu P. 2012. *Food Research International* 49: 193–200.

FT

The Application of NIR FT-Raman Spectroscopy to Monitor Starch Retrogradation and Crumb Firmness in Semolina Bread. Piccinini M, Fois S, Secchi N, Sanna M, Roggio T, Catzeddu P. 2012. Food Analytical Methods 5: 1145–1149.

FT

Bioconversion of ovine scotta into lactic acid with pure and mixed cultures of lactic acid bacteria. Secchi N, Giunta D, Pretti L, García M R, Roggio T, Mannazzu I, Catzeddu P. 2012. Journal of Industrial Microbiology and Biotechnology 39: 175–181.

FT

PUBBLICAZIONI 2011

Proteomics and pathway analysis of the milk fat globule in sheep naturally infected by Mycoplasma agalactiae: insights into the in vivo response of the mammary epithelium to bacterial infection. Addis MF, Pisanu S, Ghisaura S, Pagnozzi D, Marogna G, Tanca A, Biossa G, Cacciotto C, Alberti A, Pittau M, Roggio T, Uzzau S. 2011. Infection and Immunity 79: 3833-3845.

BD, SD

Comparison of blood serum peptide enrichment methods by Tricine SDS-PAGE and mass spectrometry. Biossa G, Addis MF, Tanca A, Pisanu S, Roggio T, Uzzau S, Pagnozzi D. 2011. Journal of Proteomics 75: 93-99.

BD

Effects of postmortem storage temperature on sea bass (*Dicentrarchus labrax*) muscle protein degradation: analysis by 2D DIGE and mass spectrometry. Terova G, Addis MF, Preziosa E, Pisanu S, Pagnozzi D, Biossa G, Gornati R, Bernardini G, Roggio T, Saroglia M. 2011. Proteomics. 11: 2901-2910.

BD, SD, FT

Impact of fixation time on gel-based proteomic profiling of formalin-fixed, paraffin-embedded tissues. Tanca A, Pagnozzi D, Falchi G, Biossa G, Rocca S, Foddai G, Uzzau S, Addis MF. 2011. Journal of Proteomics. 74: 1015-1021.

BD

Application of 2-D DIGE to formalin-fixed, paraffin-embedded tissues. Tanca A, Pagnozzi D, Falchi G, Tonelli R, Rocca S, Roggio T, Uzzau S, Addis MF. 2011. Proteomics 11: 1005-1011.

BD

The sheep milk fat globule membrane proteome. Pisanu S, Ghisaura S, Pagnozzi D, Biossa G, Tanca A, Roggio T, Uzzau S, Addis MF. 2011. Journal of Proteomics 74: 350-358.

BD, FT

Proteomic analysis of formalin-fixed, paraffin-embedded lung neuroendocrine tumor samples from hospital archives. Tanca A, Addis MF, Pagnozzi D, Cossu-Rocca P, Tonelli R, Falchi G, Eccher A, Roggio T, Fanciulli G, Uzzau S. 2011. Journal of Proteomics 74: 359-370.

BD

Effectiveness of sweet ovine whey powder in increasing the shelf life of Amaretti cookies. Secchi N, Stara G, Anedda R, Campus M, Piga A, Roggio T, Catzeddu P. 2011. LWT - Food Science and Technology 44: 1073-1078.

FT

Quality changes of fresh filled pasta during storage. Influence of modified atmosphere packaging on microbial growth and sensory properties. Sanguinetti A M, Del Caro A, Mangia N P, Secchi N, Catzeddu P, Piga A. 2011. Food Science and Technology International 17 (1): 23–29.

FT

Rheological properties and baking quality of commercial durum wheat meals used to make flat crispy bread. Fois S, Sanna M, Stara G, Roggio T, Catzeddu P. 2011. European Food Research and Technology 232: 713–722.

FT

Sourdough breads. In: Flour and breads and their fortification in health and disease prevention. Catzeddu P. 2011. (pp. 37-46). V. R. Preedy, R. R. Watson, & V. B. Patel, (Eds.), London, Burlington, San Diego: Academic Press, Elsevier.

FT

Structural characterization of recombinant human myoglobin isoforms by ^1H and ^{129}Xe NMR and molecular dynamics simulations. Gussoni M, Scorciapino MA, Vezzoli A, Anedda R, Greczo F, Ceccarelli M, Casu M. 2011. Biochimica et Biophysica Acta – Proteins and Proteomics 1814: 1919-1929.

BD, SD

^1H - and ^{13}C -NMR characterization of the molecular components of the lipid fraction of pecorino sardo cheese. Scano P, Anedda R, Melis MP, Dessì MA, Lai A, Roggio T. 2011. JAOCS, Journal of the American Oil Chemists' Society 88: 1305-1316.

FT

Development of polymeric microbubbles targeted to prostate-specific membrane antigen as prototype of novel ultrasound contrast agents. Sanna V, Pintus G, Bandiera P, Anedda R, Punzoni S, Sanna B, Migaleddu V, Uzzau S, Sechi M. 2011. Molecular Pharmaceutics 8: 748-757.

BD, SD

NMR analysis of seven selections of Vermentino grape berry: Metabolites composition and development. Mulas G, Galaffu MG, Pretti L, Nieddu G, Mercenaro L, Tonelli R, Anedda R. 2011. Journal of Agricultural and Food Chemistry 59: 793-802.

BD, FT

PUBBLICAZIONI 2010

Influence of *Moraxella* sp. colonization on the kidney proteome of farmed gilthead sea breams (*Sparus aurata*, L.). Addis MF, Cappuccinelli R, Tedde V, Pagnozzi D, Viale I, Meloni M, Salati F, Roggio T, Uzzau S. 2010. Proteome Science 8:50.

BD

Ovis Aries Papillomavirus 3: a prototype of a novel genus in the family Papillomaviridae associated with ovine Squamous Cell Carcinoma. Alberti A, Pirino S, Pintore F, Addis MF, Chessa B, Cubeddu T, Anfossi A, Benenati G, Coradduzza E, Cacciotto C, Lecis R, Antuofermo E, Carcangiu L, Pittau M. 2010. Virology 407:352-359.

BD

Proteomic analysis of muscle tissue from gilthead sea bream (*Sparus aurata*, L.) farmed in offshore floating cages. Addis MF, Cappuccinelli R, Tedde V, Pagnozzi D, Porcu MC, Bonaglini E, Roggio T, Uzzau S. 2010. Aquaculture 309:245-252.

BD, FT

The liposoluble proteome of *Mycoplasma agalactiae*: an insight into the minimal protein complement of a bacterial membrane. Cacciotto C, Addis MF, Pagnozzi D, Chessa B, Coradduzza E, Carcangiu L, Uzzau S, Alberti A, Pittau M. 2010. BMC Microbiology 10:225.

BD

Spontaneous feline mammary intraepithelial lesions as a model for human estrogen receptor- and progesterone receptor-negative breast lesions. Burrai GP, Mohammed SI, Miller MA, Marras V, Pirino S, Addis MF, Uzzau S, Antuofermo E. 2010. BMC Cancer 10:156.

BD, SD

Stress relaxation behaviour and structural changes of muscle tissues from Gilthead Sea Bream (*Sparus aurata* L.) following High Pressure Treatment. Campus M, Addis MF, Cappuccinelli R, Porcu MC, Pretti L, Tedde V, Secchi N, Stara G, Roggio T. 2010. Journal of Food Engineering 96:192–198.

FT

NMR Analysis of Seven Selections of Vermentino Grape Berry: Metabolites Composition and Development. Mulas G, Galaffu MG, Pretti L, Nieddu G, Mercenaro L, Tonelli R, Anedda R. 2010 Journal of Agricultural and Food Chemistry 59 (3): 793–802

BD, FT

Euphorbia peroxidase catalyzes thiocyanate oxidation in two different ways, the distal calcium ion playing an essential role. Pintus F, Spanò D, Bellelli A, Angelucci F, Scorciapino AM, Anedda R, Medda R, Floris G. 2010. Biochemistry 49: 8739-8747.

BD

NMR studies of zinc binding in a multi-histidinic peptide fragment. Zoroddu MA , Medici S, Peana M, Anedda R. 2010. Dalton Transactions 39: 1282-1294

BD, SD

PUBBLICAZIONI 2009

2D-PAGE and mass spectrometry analysis of proteins from formalin-fixed, paraffin-embedded tissues. Addis MF, Tanca A, Pagnozzi D, Rocca S, Uzzau S. 2009. Proteomics 9:4329-4339.

BD

Generation of high quality protein extracts from formalin-fixed, paraffin-embedded tissues. Addis MF, Tanca A, Pagnozzi D, Crobu T, Fanciulli G, Cossu-Rocca P, Uzzau S. 2009. Proteomics 9:3815-3823.

BD

Occurrence and characterization of peptaibols from *Trichoderma citrinoviride*, an endophytic fungus of cork oak, using electrospray ionization quadrupole time-of-flight mass spectrometry. Maddau L, Cabras A, Franceschini A, Linaldeddu BT, Crobu S, Roggio T, Pagnozzi D. 2009. Microbiology 155:3371-3381.

BD

An NMR study on nickel binding sites in Cap43 protein fragments. Zoroddu MA , Peana M, Medici S, Anedda R. 2009. Dalton Transactions 28: 5523-5534.

BD, SD