

## PERSONAL DETAILS

### Marco Fumagalli

 Via Balzaretti 9, Milano

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Sex M | Date of birth 13/10/1987 | Nationality ITALIANA

## WORK EXPERIENCES

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November 2018 – At present

### Technical

Laboratory of Pharmacognosy - Supervisor: Prof. Mario Dell'Agli  
Department of Pharmacological and Biomolecular Sciences  
University of Milan

October 2015 – September 2018

### PhD student

Laboratory of Pharmacognosy - Supervisor: Prof. Mario Dell'Agli  
Department of Pharmacological and Biomolecular Sciences  
University of Milan

June 2015 – August 2015

### Research fellowship for promising young students

Laboratory of Pharmacognosy - Supervisor: Prof. Mario Dell'Agli  
Department of Pharmacological and Biomolecular Sciences  
University of Milan

April 2014 – March 2015

### Research fellowship for promising young students

Laboratory of Pharmacognosy - Supervisor: Prof. Mario Dell'Agli  
Department of Pharmacological and Biomolecular Sciences  
University of Milan

Dicembr 2013 – April 2014

### Voluntary researcher

Laboratory of Pharmacognosy - Responsabile Prof. Mario Dell'Agli  
Department of Pharmacological and Biomolecular Sciences  
University of Milan

## EDUCATION

- 17 December 2018 **Doctorate in Experimental and Clinical Pharmacological Sciences**  
University of Milan  
**Thesis: "Strawberry (*Fragaria X ananassa* Duch.) tannins as ingredients of nutraceuticals with potential anti-gastritis properties"**  
Tutor: Prof. Mario Dell'Agli  
Coordinator: Prof. Alberico L. Catapano
- 16 December 2013 **Two-year master's degree in Biology Applied to Nutritional Sciences**  
University of Milan  
**Thesis: "Effect of *Fragaria* spp. extracts in an *in vitro* model of gastric inflammation"**  
Supervisor: Prof. Giovanna Speranza
- 15 February 2011 **Bachelor's degree in Pharmaceutical Biotechnologies**  
University of Milan  
**Thesis: "Inhibition of nuclear factor  $\kappa$ B (NF- $\kappa$ B) by minor polar components of extra-virgin olive oil in gastric cells"**  
Supervisor: Dr. Mario Dell'Agli
- June 2006 **High School Graduation**  
Liceo Scientifico Tecnologico "Albert Einstein" (83/100)  
Vimercate (MB)

## PUBLICATIONS

- Colombo F., Di Lorenzo C., Regazzoni L., **Fumagalli M.**, Sangiovanni E., Peres de Sousa L., Bavaresco L., Bosso A., Aldini G., Restani P., Dell'Agli M. **"Phenolic profile and anti-inflammatory activity of sixteen Grape (*Vitis vinifera* spp.) varieties"** *Food & Function*, 2019, doi: 10.1039/c8fo02175a.
- Sangiovanni E., **Fumagalli M.**, Santagostini L., Forino M., Piazza S., Colombo E., Tagliatela-Scafati O., Fico G., Dell'Agli M. **"A bio-guided assessment of the anti-inflammatory activity of hop extracts (*Humulus lupulus* L. cv. Cascade) in human gastric epithelial cells"** *Journal of Functional Foods*
- Khalilpour S., Sangiovanni E., Piazza S., Fumagalli M., Beretta G., Dell'Agli M. **"Suppression of TNF- $\alpha$ -mediated signalling by *Rhus coriaria* L. fruit extracts in human keratinocytes"** *Journal of Ethnopharmacology*, doi: 10.1016/j.jep.
- Marengo A., **Fumagalli M.**, Sanna C., Maxia A., Piazza S., Cagliero C., Rubiolo P., Sangiovanni E., Dell'Agli M. **"The hydro-alcoholic extracts of Sardinian wild thistles (*Onopordum* spp.) inhibit TNF $\alpha$ -induced IL-8 secretion and NF- $\kappa$ B pathway in human gastric epithelial AGS cells"** *J Ethnopharmacol*, 2018, 13;210:469-476.
- Sangiovanni E., Piazza S., Vrhovsek U., **Fumagalli M.**, Khalilpour S., Masuero D., Di Lorenzo C., Colombo L., Mattivi F., De Fabiani E., Dell'Agli M. **"A bio-guided approach for the development of a chestnut-based proanthocyanidin-enriched nutraceutical with potential anti-gastritis properties"** *Pharmacol Res*, 2018, 134:145-155.
- Colombo I., Sangiovanni E., Maggio R., Mattozzi C., Zava S., Corbett Y., **Fumagalli M.**, Carlino C., Corsetto P.A., Scaccabarozzi D., Calvieri S., Gismondi A., Taramelli D., Dell'Agli M. **"HaCaT cells as a reliable *in vitro* differentiation model to dissect the inflammatory/repair response of human keratinocytes"** *Mediators of Inflamm*, 2017, 2017:7435621.
- Fumagalli M.**, Sangiovanni E., Vrhovsek U., Piazza S., Colombo E., Gasperotti M., Mattivi F., Fabiani E., Dell'Agli M. **"Strawberry tannins inhibit IL-8 secretion in a cell model of gastric inflammation"** *Pharmacological Research*, 2016, 111, 703-712.
- Di Lorenzo C., Sangiovanni E., **Fumagalli M.**, Colombo E., Frigerio G., Colombo F., Peres de Sousa L., Altindışli A., Restani P., Dell'Agli M. **"Evaluation of the Anti-Inflammatory Activity of Raisins (*Vitis vinifera* L.) in Human Gastric Epithelial Cells:**

**A Comparative Study”** *International Journal of Molecular Sciences*, 2016, 17 1156.

- 9) Colombo E., Sangiovanni E., D'Ambrosio M., Bosisio E., Ciocarlan A., **Fumagalli M.**, Guerriero A., Harghel P., Dell'Agli M. **“A Bio-Guided Fractionation to Assess the Inhibitory Activity of *Calendula officinalis* L. on the NF-κB Driven Transcription in Human Gastric Epithelial Cells”** *Evid Based Complement Alternat Med*, 2015, 2015:727342.
- 10) Sangiovanni E., Di Lorenzo C., Colombo E., Colombo F., **Fumagalli M.**, Frigerio G., Restani P., Dell'Agli M. **“Effect of *in vitro* gastro-intestinal digestion on the anti-inflammatory activity of *Vitis vinifera* L. leaves”** *Food & Function*, 2015, 6, 2453-2463.
- 11) Muto E., Dell'Agli M., Sangiovanni E., Mitro N., **Fumagalli M.**, Crestani M., De Fabiani E., Caruso D. **“Olive oil phenolic extract regulates interleukin-8 expression by transcriptional and post-transcriptional mechanisms in Caco-2 cells”** *Molecular Nutrition and Food Research*, 2015, 59, 1217-1221.
- 12) Sangiovanni E., Colombo E., **Fumagalli M.**, Abbiati F., Caruso D., Dell'Agli M. **“Inhibition of NF-κB activity by minor polar components of extra-virgin olive oil at gastric level”** *Phytotherapy research*, 2012, 26, 1569-1571.

## CONGRESSES

- 1) Piazza S., Sangiovanni E., Vrhovsek U., **Fumagalli M.**, Khalilpour S., Masuero D., Colombo L., Mattivi F., De Fabiani E., Dell'Agli M. **“Tannins from Chestnut (*Castanea sativa* Mill.) leaves and fruits show promising *in vitro* anti-inflammatory properties in gastric epithelial cells”**. Convegno monotematico SIF – Le basi farmacologiche dei nutraceutici. March 29-30, 2019, Naples.
- 2) Martinelli G., **Fumagalli M.**, Sperandeo P., Sangiovanni E., Piazza S., Polissi A., De Fabiani E., Dell'Agli M. **“Strawberry tannins as potential ingredients of nutraceuticals to counteract *H. pylori*- induced gastric inflammation”**. Convegno monotematico SIF – Le basi farmacologiche dei nutraceutici. March 29-30, 2019, Naples.
- 3) Piazza S., Pacchetti B., **Fumagalli M.**, Sangiovanni E., Dell'Agli M. **“*In vitro* approach to study the bioequivalence of *Ginkgo biloba* L. leaves extracts in human endothelial cells”** The 66th Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA). August 26-29, 2018, Shanghai.
- 4) **Fumagalli M.**, Sangiovanni E., Piazza S., Vrhovsek U., Khalilpour S., Masuero D., Di Lorenzo C., Colombo L., Mattivi F., De Fabiani E., Dell'Agli M. **“A bio-guided approach for the development of a chestnut-based nutraceutical with potential anti-gastritis properties”** The 66th Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA). August 26-29, 2018, Shanghai.
- 5) Sangiovanni E., **Fumagalli M.**, Pacchetti B., Piazza S., Dell'Agli M. **“Anti-inflammatory effects of *Cannabis sativa* L. in human keratinocytes”** The 66th Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA). August 26-29, 2018, Shanghai.
- 6) Khalilpour S., Sangiovanni E., Piazza S., **Fumagalli M.**, Magnavacca A., Dell'Agli M. **“Anti-inflammatory activity of *Rhus Coriaria* L. fruit extracts in human keratinocytes”** Next Step 9: La giovane Ricerca Avanza. July 3, 2018, Milano.
- 7) **Fumagalli M.** **“Anti-inflammatory activity of strawberry tannins in tumoral and non-tumoral human gastric epithelial cells”** New perspectives in pharmacology: from genetic to real life. Spring School II Edition. April 12-15, 2018, Chiesa in Valmalenco (SO).
- 8) Sangiovanni E., **Fumagalli M.**, Magnavacca A., Tagliatela-Scafati O., Santagostini L., Colombo E., Fico G., Dell'Agli M. **“Evaluation of the anti-inflammatory activities of hops (*Humulus lupulus* L.) in human gastric epithelial cells: a bio-guided fractionation”** VI SYRP: S.I.Fit. Young Researchers Project. November 20, 2017, San Marino.
- 9) Khalilpour S., Sangiovanni E., Piazza S., **Fumagalli M.**, Magnavacca A., Dell'Agli M. **“Anti-inflammatory activity of *Rhus Coriaria* L. fruit extracts in human keratinocytes”** VI SYRP: S.I.Fit. Young Researchers Project. November 20, 2017, San Marino.
- 10) Piazza S., **Fumagalli M.**, Prato M., Sangiovanni E., Finesso N., Troia A., Garibaldi G., Basilico N., Dell'Agli M. **“Cutaneous hypoxia: effect of oxygen-loaded nanodroplets in human keratinocytes and fibroblasts”** 38° Congresso Nazionale SIF. October 25-28, 2017, Rimini.
- 11) Sangiovanni E., Piazza S., Vrhovsek U., **Fumagalli M.**, Colombo L., Mattivi F., Dell'Agli M. **“Evaluation of gastric anti-inflammatory activity of tannins from european**

- chestnut fruits (*Castanea sativa* mill.): kernel for nutrition and rind for phytotherapy**" 38° Congresso Nazionale SIF. October 25-28, 2017, Rimini.
- 12) **Fumagalli M.**, Marengo A., Sangiovanni E., Sanna C., Piazza S., Maxia A., Rubiolo P., Dell'Agli M. "**Thistles from Sardinia: evaluation of the anti-inflammatory activity of different species in a cell model of gastric inflammation**" 38° Congresso Nazionale SIF. October 25-28, 2017, Rimini.
  - 13) Argenziano M., Finesso N., D'Alessandro S., **Fumagalli M.**, Sangiovanni E., Genova T., Zicola E., Troia A., Giribaldi G., Guiot C., Cuffini A.M., Dell'Agli M., Basilico N., Cavalli R., Prato M. "**Comparative evaluation of different chitosan species and derivatives as candidate biomaterials for oxygen-loaded nanodroplets formulations to treat chronic wounds**" 2nd International Conference on Advanced Energy Materials. September 11-13, 2017, Guildford.
  - 14) Sangiovanni E., **Fumagalli M.**, Tagliatalata-Scafati O., Santagostini L., Forino M., Piazza S., Colombo E., Fico G., Dell'Agli M. "**Anti-inflammatory activity of Hops extracts (*Humulus lupulus* L.) in human gastric epithelial cells: a bio-guided fractionation**" 65th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research. September 3-7, 2017, Basel.
  - 15) Piazza S., Pacchetti B., **Fumagalli M.**, Sangiovanni E., Dell'Agli M. "**Anti-inflammatory and antioxidant activities of two different *Ginkgo biloba* L. extracts in human endothelial cells: a comparative study**" 65th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research. September 3-7, 2017, Basel.
  - 16) Piazza S., Sangiovanni E., Maldini M., **Fumagalli M.**, Spezzano R., Giavarini F., Pacchetti B., Caruso D., Dell'Agli M. "**Stability and intestinal absorption of vinpocetine in human epithelial Caco-2 cells**" 65th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research. September 3-7, 2017, Basel.
  - 17) **Fumagalli M.**, Sangiovanni E., Pacchetti B., Piazza S., Dell'Agli M. "**Anti-inflammatory activity of *Cannabis sativa* L. extracts in an *in vitro* model of skin inflammation**" 65th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research. September 3-7, 2017, Basel.
  - 18) Piazza S., Sangiovanni E., Vrhovsek U., **Fumagalli M.**, Colombo L., Mattivi F., Dell'Agli M. "**Biological activity of chestnut fruit (*Castanea sativa* Mill.): kernel for nutrition and rind for phytotherapy**" Next step 8: La giovane ricerca avanza. June 29, 2017, Milan.
  - 19) Piazza S., Sangiovanni E., Vrhovsek U., **Fumagalli M.**, Colombo L., Mattivi F., Dell'Agli M. "**Biological activity of chestnut fruit (*Castanea sativa* Mill.): kernel for nutrition and rind for phytotherapy**" XXV Congresso Nazionale di Fitoterapia. May 26-28, 2017, Arezzo.
  - 20) **Fumagalli M.**, Marengo A., Sangiovanni E., Sanna C., Piazza S., Maxia A., Rubiolo P., Dell'Agli M. "**Anti-inflammatory activity of different species of thistles from Sardinia in gastric epithelial cells**" IV incontro SYRP: S.I.Fit Young Researchers Project. December 19, 2016, Padua.
  - 21) **M. Fumagalli**, E. Sangiovanni, U. Vrhovsek, S. Piazza, E. Colombo, M. Gasperotti, F. Mattivi, M. Dell'Agli, E. De Fabiani. "**Strawberry tannins exhibit anti-inflammatory activities *in vitro* by inhibiting the NF- $\kappa$ B pathway and by other mechanisms**" FISV (Federazione Italiana Scienze della Vita) 2016, XIV Congress. September 20-22, 2016, Rome.
  - 22) Sangiovanni E., **Fumagalli M.**, Santagostini L., Colombo E., Fico G., Dell'Agli M. "**Hops extracts (*Humulus lupulus* L.) as anti-inflammatory agents in gastric epithelial cells**" 19° Seminario SIF Dottorandi, Assegnisti di ricerca, Postdottorandi e Specializzandi. September 20-22, 2016, Rimini.
  - 23) **Fumagalli M.**, Di Lorenzo C., Sangiovanni E., Colombo E., Frigerio G., Colombo F., Peres de Sousa L., Altindişli A., Restani P., Dell'Agli M. "**Evaluation of the Anti-Inflammatory Activity of Raisins (*Vitis vinifera* L.) in Human Gastric Epithelial Cells: A Comparative Study**" 19° Seminario SIF Dottorandi, Assegnisti di ricerca, Postdottorandi e Specializzandi. September 20-22, 2016, Rimini.
  - 24) **Fumagalli M.**, Sangiovanni E., Vrhovsek U., Piazza S., Colombo E., Gasperotti M., Mattivi F., De Fabiani E., Dell'Agli M. "**Strawberry tannins (*Fragaria X ananassa* Duch.): evaluation of the *in vitro* anti-inflammatory activity at gastric level**" Next step 7: la giovane ricerca avanza. July 11, 2016, Milan.

- 25) Sangiovanni E., Santagostini L., **Fumagalli M.**, Colombo E., Fico G., Dell'Agli M. "**Anti-inflammatory activity of hop extracts (*Humulus lupulus* L.) in human gastric epithelial cells**" XXIV Congresso Nazionale di Fitoterapia. May 27-29, 2016, Arezzo.
- 26) Dell'Agli M., Sangiovanni E., Colombo E., **Fumagalli M.**, Riva A., Morazzoni P. "***Vitis vinifera* L. procyanidins as strong anti-inflammatory polyphenols at gastrointestinal level**" 7th International Conference on Polyphenols and Health. October 27-30, 2015, Tours.
- 27) Sangiovanni E., Brunelli C., Di Lorenzo C., Colombo E., Frigerio G., Manzoni Y., **Fumagalli M.**, Casiraghi A., Restani P., Dell'Agli M. "**Characterization and anti-inflammatory activity of *Vitis vinifera* L. leaves in human keratinocytes**" SIF Società Italiana di Farmacologia. October 27-30, 2015, Naples.
- 28) Colombo E., Sangiovanni E., Di Lorenzo C., Colombo F., **Fumagalli M.**, Frigerio G., Restani P., Dell'Agli M. "**Anti-inflammatory activity of *Vitis vinifera* L. leaves water extract: effect of the in vitro gastro-intestinal digestion**" SIF Società Italiana di Farmacologia. October 27-30, 2015, Naples.
- 29) **Fumagalli M.**, Sangiovanni E., Gasperotti M., Colombo E., Vrhovsek U., Piazza S., Mattivi F., De Fabiani E., Dell'Agli M. "**Anti-inflammatory activity of tannins from *Fragaria* spp. at the gastric level**" SIF Società Italiana di Farmacologia. October 27-30, 2015, Naples.
- 30) **Fumagalli M.**, Sangiovanni E., Colombo E., Vrhovsek U., Mattivi F., Dell'Agli M. "**Anti-inflammatory activity of tannins from strawberries at gastric level**" Nutrimi. April 10-11, 2015 Milan.
- 31) **Fumagalli M.**, Sangiovanni E., Colombo E., Di Lorenzo C., Frigerio C., Colombo F., Restani P., Dell'Agli M. "**Anti-inflammatory activity of different varieties of raisins (*Vitis vinifera* L.) in human gastric epithelial cells: a comparative study**" Next step 6: la giovane ricerca avanza. July 2, 2015, Milan.
- 32) **Fumagalli M.**, Sangiovanni E., Di Lorenzo C., Brunelli C., Colombo F., Colombo E., Restani P., Dell'Agli M. "**Anti-inflammatory activity of an aqueous extract of *Vitis vinifera* L. (Var. Teinturiers) in gastric epithelial cells**" International PlantLIBRA Conference. May 12-14, 2014, Vienna.
- 33) Dell'Agli M., Di Lorenzo C., Sangiovanni E., Colombo F., **Fumagalli M.**, Colombo E., Restani P. "**In vitro assays to test the beneficial effect of plant food supplements in the gastro-intestinal tract: experimental results from UMIL**" International PlantLIBRA Conference. May 12-14, 2014, Vienna.
- 34) **Fumagalli M.**, Sangiovanni E., Vrhovsek U., Colombo E., Brunelli C., Gasperotti M., Mattivi F., Bosisio E., De Fabiani E., Dell'Agli M. "**In vitro anti-inflammatory activity of tannins-enriched extracts from *Fragaria* spp.**" Next step 5: la giovane ricerca avanza. June 3, 2014, Milan.
- 35) Colombo E., Sangiovanni E., Di Lorenzo C., **Fumagalli M.**, Restani P., Dell'Agli M. "***Vitis vinifera* L.: anti-inflammatory activity on the gastrointestinal tract**" Convegno monotematico SIF: FARMACOGNOSIA, nuove opportunità terapeutiche dal mondo vegetale. June 20-21, 2014, Naples.
- 36) Sangiovanni E., **Fumagalli M.**, Vrhovsek U., Colombo E., Brunelli C., Gasperotti M., Mattivi F., Bosisio E., De Fabiani E., Dell'Agli M. "**In vitro anti-inflammatory activity of *Fragaria* spp. in human gastric epithelial cells**" Convegno monotematico SIF: FARMACOGNOSIA, nuove opportunità terapeutiche dal mondo vegetale. June 20-21, 2014, Naples.
- 37) Sangiovanni E., Colombo E., Di Lorenzo C., **Fumagalli M.**, Colombo F., Restani P., Dell'Agli M. "**Anti-inflammatory activity of *Vitis vinifera* L. leaves extract at gastrointestinal level**" SIF: Società Italiana di Farmacologia, 17° Seminario Dottorandi, Assegnisti di Ricerca, Postdottorandi e Specializzandi. September 16-18, 2014, Rimini.
- 38) Sangiovanni E., **Fumagalli M.**, Abbiati F., Caruso D., Bosisio E., Dell'Agli M. "**Minor polar components of extra-virgin olive oil: Inhibition of NF-κB activity at gastric level**" Nutrimi. April 6-7, 2011, Milan.
- 39) Sangiovanni E., Colombo E., **Fumagalli M.**, Abbiati F., Caruso D., Bosisio E., Dell'Agli M. "**Minor polar components of extra-virgin olive oil: Inhibition of NF-κB activity at gastric level**" Next step 2: la giovane ricerca avanza. June 24, 2011, Milan.

**Dati personali** Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".